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1.1 @types/angular 1.6.51

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1.10 angular 7.0.4

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```
export class ContributorGroup {  
  name: string;  
  order: number;  
  contributors: Contributor[];  
}
```

```
export class Contributor {  
  group: string;  
  name: string;  
  picture?: string;  
  website?: string;  
  twitter?: string;  
  bio?: string;  
  isFlipped ? = false;  
}
```

```

import { HttpClientTestingModule, HttpTestingController } from '@angular/common/http/testing';
import { Injector } from '@angular/core';
import { TestBed } from '@angular/core/testing';

import { ContributorService } from './contributor.service';
import { ContributorGroup } from './contributors.model';

describe('ContributorService', () => {

  let injector: Injector;
  let contribService: ContributorService;
  let httpMock: HttpTestingController;

  beforeEach(() => {
    injector = TestBed.configureTestingModule({
      imports: [HttpClientTestingModule],
      providers: [
        ContributorService
      ]
    });

    contribService = injector.get<ContributorService>(ContributorService);
    httpMock = injector.get(HttpTestingController);
  });

  afterEach(() => httpMock.verify());

  it('should make a single connection to the server', () => {
    const req = httpMock.expectOne({});
    expect(req.request.url).toBe('generated/contributors.json');
  });

  describe('#contributors', () => {

    let contribs: ContributorGroup[];
    let testData: any;

    beforeEach(() => {
      testData = getTestContribs();
      httpMock.expectOne({}).flush(testData);
      contribService.contributors.subscribe(results => contribs = results);
    });

    it('contributors observable should complete', () => {
      let completed = false;
      contribService.contributors.subscribe(undefined, undefined, () => completed = true);
      expect(completed).toBe(true, 'observable completed');
    });
  });
}

```

```

it('should reshape the contributor json to expected result', () => {
  const groupNames = contribs.map(g => g.name).join(',');
  expect(groupNames).toEqual('Angular,GDE');
});

it('should have expected "GDE" contribs in order', () => {
  const gde = contribs[1];
  const actualAngularNames = gde.contributors.map(l => l.name).join(',');
  const expectedAngularNames = [testData.jeffcross, testData.kapunahewong].map(l => l.name).join(',');
  expect(actualAngularNames).toEqual(expectedAngularNames);
});

it('should do WHAT(?) if the request fails');

function getTestContribs() {
  return {
    kapunahewong: {
      name: 'Kapunahele Wong',
      picture: 'kapunahewong.jpg',
      website: 'https://github.com/kapunahewong',
      twitter: 'kapunahele',
      bio: 'Kapunahele is a front-end developer and contributor to angular.io',
      group: 'GDE'
    },
    misko: {
      name: 'Miko Hevery',
      picture: 'misko.jpg',
      twitter: 'mhevery',
      website: 'http://misko.hevery.com',
      bio: 'Miko Hevery is the creator of AngularJS framework.',
      group: 'Angular'
    },
    igor: {
      name: 'Igor Minar',
      picture: 'igor-minar.jpg',
      twitter: 'IgorMinar',
      website: 'https://google.com/+IgorMinar',
      bio: 'Igor is a software engineer at Angular.',
      group: 'Angular'
    },
    kara: {
      name: 'Kara Erickson',
      picture: 'kara-erickson.jpg',
      twitter: 'karaforthewin',
      website: 'https://github.com/kara',

```



```

    bio: 'Kara is a software engineer on the Angular team at Angular and a co-organizer of the Angular-SF Meetup. ',
    group: 'Angular'
  },
  jeffcross: {
    name: 'Jeff Cross',
    picture: 'jeff-cross.jpg',
    twitter: 'jeffbcross',
    website: 'https://twitter.com/jeffbcross',
    bio: 'Jeff was one of the earliest core team members on AngularJS.',
    group: 'GDE'
  },
  naomi: {
    name: 'Naomi Black',
    picture: 'naomi.jpg',
    twitter: 'naomitraveller',
    website: 'http://google.com/+NaomiBlack',
    bio: 'Naomi is Angular\'s TPM generalist and jack-of-all-trades.',
    group: 'Angular'
  }
};
}

import { NgModule, Type } from '@angular/core';
import { CommonModule } from '@angular/common';
import { ContributorListComponent } from './contributor-list.component';
import { ContributorService } from './contributor.service';
import { ContributorComponent } from './contributor.component';
import { WithCustomElementComponent } from '../element-registry';

@NgModule({
  imports: [ CommonModule ],
  declarations: [ ContributorListComponent, ContributorComponent ],
  entryComponents: [ ContributorListComponent ],
  providers: [ ContributorService ]
})
export class ContributorListModule implements WithCustomElementComponent {
  customElementComponent: Type<any> = ContributorListComponent;
}

import { Component, OnInit } from '@angular/core';
import { ContributorGroup } from './contributors.model';
import { ContributorService } from './contributor.service';
import { LocationService } from 'app/shared/location.service';

@Component({
  selector: `aio-contributor-list`,
  template: `
<div class="flex-center group-buttons">
  <a *ngFor="let name of groupNames"
    [class.selected]="name == selectedGroup.name"

```

```

        class="button mat-button filter-button"
        (click)="selectGroup(name)">{{ name }}</a>
</div>
<section *ngIf="selectedGroup" class="grid-fluid">
  <div class="contributor-group">
    <aio-contributor *ngFor="let person of selectedGroup.contributors" [person]="person"></aio-contributor>
  </div>
</section>`
))
export class ContributorListComponent implements OnInit {
  private groups: ContributorGroup[];
  groupNames: string[];
  selectedGroup: ContributorGroup;

  constructor(
    private contributorService: ContributorService,
    private locationService: LocationService) { }

  ngOnInit() {
    const groupName = this.locationService.search()['group'] || '';
    // no need to unsubscribe because `contributors` completes
    this.contributorService.contributors
      .subscribe(grps => {
        this.groups = grps;
        this.groupNames = grps.map(g => g.name);
        this.selectGroup(groupName);
      });
  }

  selectGroup(name: string) {
    name = name.toLowerCase();
    this.selectedGroup = this.groups.find(g => g.name.toLowerCase() === name) || this.groups[0];
    this.locationService.setSearch("", {group: this.selectedGroup.name});
  }
}

import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';

import { ConnectableObservable, Observable } from 'rxjs';
import { map, publishLast } from 'rxjs/operators';

import { Contributor, ContributorGroup } from './contributors.model';

// TODO(andrewjs): Look into changing this so that we don't import the service just to get the const
import { CONTENT_URL_PREFIX } from 'app/documents/document.service';

const contributorsPath = CONTENT_URL_PREFIX + 'contributors.json';
const knownGroups = ['Angular', 'GDE'];

```

```

@Injectables()
export class ContributorService {
  contributors: Observable<ContributorGroup[]>;

  constructor(private http: HttpClient) {
    this.contributors = this.getContributors();
  }

  private getContributors() {
    const contributors = this.http.get<{[key: string]: Contributor}>(contributorsPath).pipe(
      // Create group map
      map(contribs => {
        const contribMap: { [name: string]: Contributor[] } = {};
        Object.keys(contribs).forEach(key => {
          const contributor = contribs[key];
          const group = contributor.group;
          const contribGroup = contribMap[group];
          if (contribGroup) {
            contribGroup.push(contributor);
          } else {
            contribMap[group] = [contributor];
          }
        });
      }),

      return contribMap;
    ));

    // Flatten group map into sorted group array of sorted contributors
    map(cmap => {
      return Object.keys(cmap).map(key => {
        const order = knownGroups.indexOf(key);
        return {
          name: key,
          order: order === -1 ? knownGroups.length : order,
          contributors: cmap[key].sort(compareContributors)
        } as ContributorGroup;
      })
      .sort(compareGroups);
    }),

    publishLast(),
  );

  (contributors as ConnectableObservable<ContributorGroup[]>).connect();
  return contributors;
}
}

```

```

function compareContributors(l: Contributor, r: Contributor) {
return l.name.toUpperCase() > r.name.toUpperCase() ? 1 : -1;
}

function compareGroups(l: ContributorGroup, r: ContributorGroup) {
return l.order === r.order ?
  (l.name > r.name ? 1 : -1) :
  l.order > r.order ? 1 : -1;
}
import { ReflectiveInjector } from '@angular/core';

import { of } from 'rxjs';

import { ContributorGroup } from './contributors.model';
import { ContributorListComponent } from './contributor-list.component';
import { ContributorService } from './contributor.service';
import { LocationService } from 'app/shared/location.service';

// Testing the component class behaviors, independent of its template
// Let e2e tests verify how it displays.
describe('ContributorListComponent', () => {

  let component: ContributorListComponent;
  let injector: ReflectiveInjector;
  let contributorService: TestContributorService;
  let locationService: TestLocationService;
  let contributorGroups: ContributorGroup[];

  beforeEach(() => {
    injector = ReflectiveInjector.resolveAndCreate([
      ContributorListComponent,
      {provide: ContributorService, useClass: TestContributorService },
      {provide: LocationService, useClass: TestLocationService }
    ]);

    locationService = injector.get(LocationService);
    contributorService = injector.get(ContributorService);
    contributorGroups = contributorService.testContributors;
  });

  it('should select the first group when no query string', () => {
    component = getComponent();
    expect(component.selectedGroup).toBe(contributorGroups[0]);
  });

  it('should select the first group when query string w/o "group" property', () => {
    locationService.searchResult = { foo: 'GDE' };
  });

```

```

    component = getComponent();
    expect(component.selectedGroup).toBe(contributorGroups[0]);
  });

  it('should select the first group when query group not found', () => {
    locationService.searchResult = { group: 'foo' };
    component = getComponent();
    expect(component.selectedGroup).toBe(contributorGroups[0]);
  });

  it('should select the GDE group when query group is "GDE"', () => {
    locationService.searchResult = { group: 'GDE' };
    component = getComponent();
    expect(component.selectedGroup).toBe(contributorGroups[1]);
  });

  it('should select the GDE group when query group is "gde" (case insensitive)', () => {
    locationService.searchResult = { group: 'gde' };
    component = getComponent();
    expect(component.selectedGroup).toBe(contributorGroups[1]);
  });

  it('should set the query to the "GDE" group when user selects "GDE"', () => {
    component = getComponent();
    component.selectGroup('GDE');
    expect(locationService.searchResult['group']).toBe('GDE');
  });

  it('should set the query to the first group when user selects unknown name', () => {
    component = getComponent();
    component.selectGroup('GDE'); // a legit group that isn't the first

    component.selectGroup('foo'); // not a legit group name
    expect(locationService.searchResult['group']).toBe('Angular');
  });

  /// Test Helpers ///
  function getComponent(): ContributorListComponent {
    const comp = injector.get(ContributorListComponent);
    comp.ngOnInit();
    return comp;
  }

  interface SearchResult { [index: string]: string; };

  class TestLocationService {
    searchResult: SearchResult = {};
    search = jasmine.createSpy('search').and.callFake(() => this.searchResult);
  }

```

```

setSearch = jasmine.createSpy('setSearch')
  .and.callFake((label: string, result: SearchResult) => {
    this.searchResult = result;
  });
}

class TestContributorService {
  testContributors = getTestData();
  contributors = of(this.testContributors);
}

function getTestData(): ContributorGroup[] {
  return [
    // Not interested in the contributors data in these tests
    { name: 'Angular', order: 0, contributors: [] },
    { name: 'GDE', order: 1, contributors: [] },
  ];
}

import { Component, Input } from '@angular/core';

import { Contributor } from './contributors.model';
import { CONTENT_URL_PREFIX } from 'app/documents/document.service';

@Component({
  selector: 'aio-contributor',
  template: `
    <div [ngClass]="{ 'flipped': person.isFlipped }" class="contributor-card">

      <div class="card-front" (click)="flipCard(person)">
        <h3>{{person.name}}</h3>

        <div class="contributor-image" [style.background-image]="url('+pictureBase+(person.picture ||
noPicture)+')">
          <div class="contributor-info">
            <a *ngIf="person.bio" mat-button>
              View Bio
            </a>
            <a *ngIf="person.twitter" mat-button class="icon"
              href="https://twitter.com/{{person.twitter}}" target="_blank" (click)="$event.stopPropagation()">
              <span class="fa fa-twitter fa-2x"></span>
            </a>
            <a *ngIf="person.website" mat-button class="icon"
              href="{{person.website}}" target="_blank" (click)="$event.stopPropagation()">
              <span class="fa fa-link fa-2x"></span>
            </a>
          </div>
        </div>
      </div>
  `;
})

```

```

</div>

<div class="card-back" *ngIf="person.isFlipped" (click)="flipCard(person)">
  <h3>{{person.name}}</h3>
  <p class="contributor-bio">{{person.bio}}</p>
</div>
</div>
,
))
export class ContributorComponent {
  @Input() person: Contributor;
  noPicture = '_no-one.png';
  pictureBase = CONTENT_URL_PREFIX + 'images/bios/';

  flipCard(person: Contributor) {
    person.isFlipped = !person.isFlipped;
  }
}
@title
@description
The MIT License

```

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```

{
  "misko": {
    "name": "Miko Hevery",
    "picture": "misko.jpg",
    "twitter": "mhevery",
    "website": "http://misko.hevery.com",
    "bio": "Miko Hevery is the creator of AngularJS framework. He has passion for making complex things simple.

```

He currently works at Google, but has previously worked at Adobe, Sun Microsystems, Intel, and Xerox, where he became an expert in building web applications in web related technologies such as Java, JavaScript, Flex and ActionScript.",

```
"group": "Angular"  
},
```

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"igor": {
```

```
  "name": "Igor Minar",
```

```
  "picture": "igor-minar.jpg",
```

```
  "twitter": "IgorMinar",
```

```
  "website": "https://google.com/+IgorMinar",
```

"bio": "Igor is a software engineer at Google. He is a lead on the Angular project, practitioner of test driven development, open source enthusiast, hacker. In his free time, Igor enjoys spending time with his wife and two kids, doing outdoor activities (including but not limited to sports, gardening and building retaining walls).",

```
  "group": "Angular"
```

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},
```

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"naomi": {
```

```
  "name": "Naomi Black",
```

```
  "picture": "naomi.jpg",
```

```
  "twitter": "naomitraveller",
```

```
  "website": "http://google.com/+NaomiBlack",
```

"bio": "Naomi is Angular's TPM generalist and jack-of-all-trades. She supports Angular's internal Google users and solves hard-to-define problems. She's been at Google since 2006, as a technical program manager on projects ranging from Accessibility to Google Transit. She fights daleks in her spare time.",

```
  "group": "Angular"
```

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},
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"brad": {
```

```
  "name": "Brad Green",
```

```
  "picture": "brad-green.jpg",
```

```
  "twitter": "bradlygreen",
```

```
  "website": "https://plus.google.com/+BradGreen",
```

"bio": "Brad Green works at Google as an engineering director. Brad manages the Google Sales Platform suite of projects as well as the AngularJS framework. Prior to Google, Brad worked on the early mobile web at AvantGo, founded and sold startups, and spent a few hard years toiling as a caterer. Brad's first job out of school was as lackey to Steve Jobs at NeXT Computer writing demo software and designing his slide presentations. Brad enjoys throwing dinner parties with his wife Heather and putting on plays with his children.",

```
  "group": "Angular"
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},
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"juleskremer": {
```

```
  "name": "Jules Kremer",
```

```
  "picture": "juleskremer.jpg",
```

```
  "twitter": "jules_kremer",
```

```
  "website": "https://plus.google.com/+JulesKremer",
```

"bio": "Jules is Head of Angular Developer Relations at Google. When not working with developers, Jules is often bending into pretzel-like shapes, creating paths through thick jungle with a machete or drinking really


```

awesome beer.",
  "group": "Angular"
},

"jelbourn": {
  "name": "Jeremy Elbourn",
  "picture": "jelbourn.jpg",
  "twitter": "jelbourn",
  "website": "https://plus.google.com/+JeremyElbourn/",
  "bio": "Angular Material Team Lead. FE Engineer @ Google specializing in AngularJS, component design, and
the cleanest of code.",
  "group": "Angular"
},

"pete": {
  "name": "Pete Bacon Darwin",
  "picture": "pete.jpg",
  "twitter": "petebd",
  "website": "http://www.bacondarwin.com",
  "bio": "AngularJS for JS Team Lead. Pete has been working on the core team since 2012 and became the team
lead for the AngularJS for JS branch in November 2014. He has co-authored a book on AngularJS and regularly
talks about and teaches Angular.",
  "group": "Angular"
},

"stephenfluin": {
  "name": "Stephen Fluin",
  "picture": "stephenfluin.jpg",
  "twitter": "stephenfluin",
  "website": "https://plus.google.com/+stephenfluin",
  "bio": "Stephen is a Developer Advocate working on the Angular team. Before joining Google, he was a Google
Expert. Stephen loves to help enterprises use technology more effectively.",
  "group": "Angular"
},

"robwormald": {
  "name": "Rob Wormald",
  "picture": "rob-wormald.jpg",
  "twitter": "robwormald",
  "website": "http://github.com/robwormald",
  "bio": "Rob is a Developer Advocate on the Angular team at Google. He's the Angular team's resident reactive
programming geek and founded the Reactive Extensions for Angular project, ngrx.",
  "group": "Angular"
},

"tobias": {
  "name": "Tobias Bosch",
  "picture": "tobias.jpg",

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```

"twitter": "tbosch1009",
"website": "https://plus.google.com/+TobiasBosch",
"bio": "Tobias Bosch is a software engineer at Google. He is part of the Angular core team and works on
Angular.",
"group": "Angular"
},

"rado": {
"name": "Rado Kirov",
"picture": "rado.jpg",
"twitter": "radokirov",
"website": "https://plus.sandbox.google.com/+RadoslavKirov",
"bio": "Rado has been on the Angular Core team since Summer 2014. Before Angular, he worked on the AdSense
serving stack, responsible for serving billions of ads daily. Being passionate about open source, he made
contributions to Angular as a Google-20% project, before making the fulltime jump. He is a recovering academic;
ask him about error-correcting codes from algebraic curves (or don't).",
"group": "Angular"
},

"alexeeagle": {
"name": "Alex Eagle",
"picture": "alex-eagle.jpg",
"twitter": "jakeherringbone",
"website": "http://google.com/+alexeeagle",
"bio": "Alex works on language tooling for JavaScript and TypeScript. Previously Alex spent five years in
Google's developer testing tools. He has developed systems including Google's continuous integration service,
capturing build&test failures, and explaining them to developers. Before Google, Alex worked at startups including
Opower, and consulted for large government IT. In his 20% time, he created the Error-Prone static analysis tool,
which detects common Java programming mistakes and reports them as compile errors.",
"group": "Angular"
},

"martinprobst": {
"name": "Martin Probst",
"picture": "martin-probst.jpg",
"twitter": "martin_probst",
"website": "http://probst.io",
"bio": "Martin is a software engineer at Google in the AngularJS team. He holds a MSc in Software Engineering
from HPI in Potsdam, Germany. Before joining the AngularJS team at Google, he worked at a database startup in
the Netherlands, at EMC, at SAP, and as a freelancer. In his free time, he likes to cook and sail, not necessarily at
the same time.",
"group": "Angular"
},

"julieralph": {
"name": "Julie Ralph",
"picture": "julie-ralph.jpg",
"twitter": "SomeJulie",

```

```

    "website": "https://plus.google.com/+JulieRalph",
    "bio": "Julie Ralph works as a Software Engineer in Test at Google in Seattle and is the lead developer on the Angular end-to-end testing framework Protractor.",
    "group": "Angular"
  },

  "alexrickabaugh": {
    "name": "Alex Rickabaugh",
    "picture": "alex-rickabaugh.jpg",
    "twitter": "synalx",
    "website": "https://plus.google.com/+AlexRickabaugh/about",
    "bio": "Core team member working to optimize the Angular platform for the next generation of applications, including mobile. Before joining the Angular team, Alex worked in the Google sales organization where he helped build the first large Angular application within Google.",
    "group": "Angular"
  },

  "matias": {
    "name": "Matias Niemela",
    "picture": "matias.jpg",
    "twitter": "yearofmoo",
    "website": "http://yearofmoo.com",
    "bio": "Matias Niemela is a fullstack web developer who has been programming & building websites for over 10 years, and a core team member of AngularJS for two years. In the spring of 2015 Matias joined Angular full time at Google. In his free time Matias loves to build complex things and is always up for public speaking, travelling and tweaking his current Vim setup.",
    "group": "Angular"
  },

  "hansl": {
    "name": "Hans Larsen",
    "picture": "hansl.jpg",
    "twitter": "hanslatwork",
    "website": "http://www.codingatwork.com/",
    "bio": "Hans is a software engineer at Google on the Angular team and was previously at Slack. He works everyday to help make it easier for everyone to create beautiful, consistent web applications using Angular, using Material Design components and the CLI tool.",
    "group": "Angular"
  },

  "kara": {
    "name": "Kara Erickson",
    "picture": "kara-erickson.jpg",
    "twitter": "karaforthewin",
    "website": "https://github.com/kara",
    "bio": "Kara is a software engineer on the Angular team at Google and a co-organizer of the Angular-SF Meetup. Prior to Google, she helped build UI components in Angular for guest management systems at OpenTable. She enjoys snacking indiscriminately and probably other things too.",
  }

```

```

"group": "Angular"
},

"chuckj": {
  "name": "Chuck Jazdzewski",
  "picture": "chuckj.jpg",
  "twitter": "chuckjaz",
  "website": "http://removingalldoubt.com",
  "bio": "Chuck is a Software Engineer on the Angular team at Google. He is a programming language geek, UI framework and component library veteran, and has a passion for simplifying the task of programming. Before Google, he worked at Microsoft and Borland.",
  "group": "Angular"
},

"vikram": {
  "name": "Vikram Subramanian",
  "picture": "vikram.jpg",
  "twitter": "vikerman",
  "bio": "Vikram is a Software Engineer on the Angular team focused on Engineering Productivity. That means he makes sure people on the team can move fast and not break things. Vikram enjoys doing Yoga and going on walks with his daughter.",
  "group": "Angular"
},

"maxsills": {
  "name": "Max Sills",
  "picture": "max-sills.jpg",
  "twitter": "angularjs",
  "website": "http://google-opensource.blogspot.com/",
  "bio": "Max Sills is Angular's Open Source lawyer.",
  "group": "Angular"
},

"pawel": {
  "name": "Pawel Kozlowski",
  "picture": "pawel.jpg",
  "twitter": "pkozlowski_os",
  "bio": "Open source hacker, AngularJS book author, AngularUI lead developer. Pawel is an software-development addict who believes in free, open source software. He is a core contributor to the AngularJS framework, AngularUI, Karma-runner and several other projects. He is the co-author of the \"Mastering Web Application Development with AngularJS\" book. When not coding, Pawel can be spotted speaking at various software development conferences.",
  "group": "Angular"
},

"paulgschwendtner": {
  "name": "Paul Gschwendtner",
  "picture": "devversion.jpg",
  "twitter": "DevVersion",

```

```
"website": "https://github.com/DevVersion",  
"bio": "Paul is a 17-year-old developer living in Germany. While he attends school, Paul works as a core team member on Angular Material. Paul focuses on tooling and building components for Angular.",  
"group": "Angular"  
},
```

```
"elad": {  
  "name": "Elad Bezalel",  
  "picture": "eladbezalel.jpg",  
  "website": "https://github.com/EladBezalel",  
  "bio": "Elad is a fullstack developer with a very strong love for design. Since 8 years old, he's been designing in Photoshop and later on fell in love with programing. This strong bond between design and computer programming gave birth to a new kind of love. And he is currently doing the combination of both, as a core member of the ngMaterial project.",  
  "group": "Angular"  
},
```

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"marclaval": {  
  "name": "Marc Laval",  
  "picture": "marclaval.jpg",  
  "twitter": "marclaval",  
  "website": "https://github.com/mlaval",  
  "bio": "Marc is a manager at Amadeus where he leads the team in charge of developing and recommending UI frameworks for the company. He is also an open source developer and a contributor to Angular.",  
  "group": "Angular"  
},
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"wardbell": {  
  "name": "Ward Bell",  
  "picture": "wardbell.jpg",  
  "website": "https://github.com/wardbell",  
  "twitter": "wardbell",  
  "bio": "Ward is an all-around developer with JavaScript, Node.js, and .net chops. He's a frequent conference speaker and podcaster, trainer, Google Developer Expert for Angular, Microsoft MVP, and PluralSight author. He is also president of IdeaBlade, an enterprise software consulting firm and the makers of breeze.js. He would like to get more sleep and spend more time in the mountains.",  
  "group": "Angular"  
},
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```
"martinstaffa": {  
  "name": "Martin Staffa",  
  "picture": "martinstaffa.jpg",  
  "twitter": "Narretz",  
  "bio": "Martin is an English major turned web developer who loves frontend stuff. He's been part of the AngularJS team since 2014. If you can't find him roaming the Github issue queues, he's probably out with his camera somewhere.",  
  "group": "Angular"  
},
```

```

"filipesilva": {
  "name": "Filipe Silva",
  "picture": "filipe-silva.jpg",
  "twitter": "filipematossilv",
  "website": "http://github.com/filipesilva",
  "bio": "Filipe is a passion-driven developer that always strives for the most elegant solution for each problem. He is currently an author for Angular.io, a core contributor for Angular-CLI and senior front end engineer at KonnectAgain. When not busy going through PRs, you can find him scouring reddit for new dinner recipes to cook or enjoying a craft beer in Dublin.",
  "group": "Angular"
},

"andrewseguin": {
  "name": "Andrew Seguin",
  "picture": "andrewseguin.jpg",
  "website": "http://github.com/andrewseguin",
  "bio": "Andrew is an engineer on the Angular Material team working on bringing material components to the world. When hes not obsessing over pixels and design, he is probably off somewhere having adventures with his wife and daughters.",
  "group": "Angular"
},

"jesusrodriguez": {
  "name": "Jess Rodrguez",
  "picture": "jesus-rodriguez.jpg",
  "twitter": "foxandxss",
  "website": "http://angular-tips.com",
  "bio": "Jesus is an open source lover, a book author and editor, and AngularUI lead developer. He is currently a core contributor to the UI Bootstrap project.",
  "group": "Angular"
},

"crisbeto": {
  "name": "Kristiyan Kostadinov",
  "picture": "crisbeto.jpg",
  "website": "http://crisbeto.com/",
  "bio": "Kristiyan is a front-end developer, passionate open-source contributor and a core team member on Angular Material.",
  "group": "Angular"
},

"gkalpak": {
  "name": "Georgios Kalpakas",
  "picture": "gkalpak.jpg",
  "twitter": "gkalpakas",
  "website": "https://github.com/gkalpak",
  "bio": "George is a Software Engineer with a passion for chess, robotics and automating stuff. He has a strong

```

need to know how things work (so if you already know, he'd love to have a talk with you). He has been a member of the AngularJS team since 2014. When not doing geeky stuff, he is probably trying to convince his wife and kids to apply programming principles in real life. (Or is it the other way around?)",

```
"group": "Angular"
},
"mmalerba": {
  "name": "Miles Malerba",
  "picture": "mmalerba.jpg",
  "bio": "Miles is a software engineer on the Angular Material team at Google. In addition to Javascripting he enjoys eating food and ogling cute puppies.",
  "group": "Angular"
},
```

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"jasonaden": {
  "name": "Jason Aden",
  "picture": "jasonaden.jpg",
  "bio": "Jason is a software engineer at Google on the Angular Core team. He is enthusiastic about Angular and application development in the modern age. In his free time Jason enjoys spending time with his wife and four children and doing outdoor activities (hiking, fishing, snowboarding, etc.).",
  "group": "Angular"
},
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"jeffwhelpley": {
  "name": "Jeff Whelpley",
  "picture": "jeffwhelpley.jpg",
  "twitter": "jeffwhelpley",
  "website": "https://medium.com/@jeffwhelpley",
  "bio": "Jeff Whelpley is a Google Developer Expert and the CTO of GetHuman. He is the co-organizer of the Angular Boston meetup group, co-creator of Angular Universal, former host of AngularAir and frequent speaker at Angular events.",
  "group": "GDE"
},
```

```
"pascalprecht": {
  "name": "Pascal Precht",
  "picture": "pascalprecht.jpg",
  "website": "https://twitter.com/PascalPrecht",
  "bio": "Pascal is a software engineer, author and Google Developer Expert for the Angular team. He loves contributing to open source and is the creator of the popular angular-translate module. In his spare time hes fiddling with EDM production.",
  "group": "GDE"
},
```

```
"deborah": {
  "name": "Deborah Kurata",
  "picture": "deborah.jpg",
  "twitter": "deborahkurata",
  "website": "http://blogs.msmvps.com/deborahk/",
```

```

    "bio": "Deborah is a software developer, author, and Google Developer Expert. She is author of several Pluralsight courses including: 'Angular 2: Getting Started' and Angular Routing",
    "group": "GDE"
  },

  "alyssa": {
    "name": "Alyssa Nicoll",
    "picture": "mickey_mouse.jpg",
    "twitter": "alyssanicoll",
    "website": "alyssa.io",
    "bio": "I am an energetic, ber passionate GDE and Web Dev. I have some Front-End and Angular courses on Egghead.io and Code School. I love to learn new things and share them with others. I Scuba Dive and have a toothless dog named 'Gummy'. My DM is always open, come talk sometime.",
    "group": "GDE"
  },

  "ralph": {
    "name": "Ralph Wang",
    "picture": "ralph.jpg",
    "twitter": "ralph_wang_gde",
    "bio": "Ralph(Zhicheng Wang) is a senior consultant at ThoughtWorks and also a GDE. He is a technology enthusiast and he is a passionate advocate of 'Simplicity, Professionalism and Sharing'. In his eighteen years of R&D career, he worked as tester, R&D engineer, project manager, product manager and CTO. He is immersed in the excitement of the arrival of the baby.",
    "group": "GDE"
  },

  "wassim": {
    "name": "Wassim Chegham",
    "picture": "wassim.jpg",
    "twitter": "manekinekko",
    "website": "https://medium.com/@wassimchegham",
    "bio": "Wassim (aka manekinekko on Twitter/Github) is a Developer Advocate at SFEIR, in Web technologies (Angular, Polymer, PWA, Web Components...). He is also a Developer Expert in Web technologies nominated by Google. He enjoys writing technical articles, meeting developers at events, speaking at conferences and contributing to open source projects. Wassim loves the Web Platform and works hard to move it forward.",
    "group": "GDE"
  },

  "chrisnoring": {
    "name": "Christoffer Noring",
    "picture": "chrisnoring.jpg",
    "twitter": "chris_noring",
    "website": "softchris.github.io",
    "bio": "Chris is a Full Stack Developer at McKinsey. A Google Developer Expert in Web Technologies and Angular. He is also a Nativescript Developer Expert. He is one of the organizers of the Angular conference ngVikings and an author of the book RxJS 5 Ultimate",
    "group": "GDE"
  }

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"jorgeucano": {
  "name": "Jorge Cano",
  "picture": "jorgeucano.jpg",
  "twitter": "jorgeucano",
  "website": "https://medium.com/@jorgeucano",
  "bio": "Jorge is a Full Stack Developer in ByteDefault, a professor for several courses related to JavaScript, a speaker, and an author of technical articles and the book \"Entendiendo Angular.\" He is a Google Developer Expert in web technologies (nominated by Google) and a NativeScript Developer Expert (nominated by Telerik).",
  "group": "GDE"
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"toddmotto": {
  "name": "Todd Motto",
  "picture": "toddmotto.jpg",
  "twitter": "toddmotto",
  "website": "https://ultimateangular.com",
  "bio": "Owner and trainer at Ultimate Angular. Lives in England, UK. Has a love for teaching, OSS and speaking at conferences. Google Developer Expert for Web Technologies and Angular.",
  "group": "GDE"
},

"michaelprentice": {
  "name": "Michael Prentice",
  "picture": "michaelprentice.jpg",
  "twitter": "splaktar",
  "website": "https://www.DevIntent.com",
  "bio": "Lead for AngularJS Material. Owner and consultant at DevIntent. Ex-Angular GDE. Founder of the Google Developers Group (GDG) community on the Space Coast of Florida, USA.",
  "group": "Angular"
},

"mikebrocchi": {
  "name": "Mike Brocchi",
  "picture": "mike-brocchi.jpg",
  "twitter": "brocco",
  "bio": "Mike is a core team member of the Angular CLI team, a GDE and is also an instructor at egghead. Mike is passionate about helping others by writing code as well as teaching.",
  "group": "Angular"
},

"manfredsteyer": {
  "name": "Manfred Steyer",
  "picture": "steyer.jpg",
  "twitter": "ManfredSteyer",
  "website": "https://www.softwarearchitekt.at",
  "bio": "Trainer and Consultant with focus on Angular. Writes for O'Reilly, the German Java Magazine and Heise.

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Regularly speaks at conferences.",

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"group": "GDE"
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"maximalsalnikov": {
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"name": "Maxim Salnikov",
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"picture": "maximalsalnikov.jpg",
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"twitter": "webmaxru",
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"website": "https://medium.com/@webmaxru",
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```
"bio": "Oslo-based web front-end engineer, a Google Developer Expert in Angular, Web technologies and IoT.
```

Active public speaker & trainer for the developer events. Leader of Norways largest meetups dedicated to web front-end and mobile development. Founder of ngVikings and Mobile Era conferences. Progressive Web Apps advocate.",

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"group": "GDE"
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"jeremywilken": {
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"picture": "jeremywilken.jpg",
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```
"twitter": "gnomeontherun",
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"website": "https://gnomeontherun.com",
```

```
"bio": "Based in Austin Texas, Jeremy is an application architect and homebrewer. He is a Google Developer Expert in Web Technologies and Angular, with a focus on speaking and training and author of Angular in Action and Ionic in Action.",
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"minko": {
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"name": "Minko Gechev",
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"picture": "minko.jpg",
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"twitter": "mgechev",
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"website": "http://blog.mgechev.com",
```

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"bio": "Software engineer who enjoys theoretical computer science and its practical applications. Author of the books 'Switching to Angular 2' and 'Getting Started with Angular', speaker and blogger. Working on tooling for Angular and TypeScript.",
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"uri": {
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"name": "Uri Shaked",
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"picture": "urish.jpg",
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"twitter": "UriShaked",
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```
"website": "https://urish.org",
```

```
"bio": "Uri Shaked is a Google Developer Expert for Web Technologies. He regularly writes about Web and IoT related technologies in his medium blog, and speaks about these topics in conferences and meetup around the world. Among his interests are reverse engineering, hardware hacking, building 3d-printed robots and games, playing music and Salsa dancing.",
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"group": "GDE"
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"euso": {
  "name": "Josue Gutierrez",
  "picture": "josue.jpg",
  "twitter": "euso",
  "website": "http://techtam.io",
  "bio": "Based in Mexico, Josue has been web developer since the last 10 years, he is part of the Google Developer Expert Program, passionate about teaching and building communities",
  "group": "GDE"
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"SanderElias": {
  "name": "Sander Elias",
  "picture": "sanderelias.jpg",
  "twitter": "esoSanderElias",
  "website": "https://sanderelias.nl",
  "bio": "Sander is a versed developer with over 4 decades of practice under his belt. He is also an Google Developer Expert for web, specializing in Angular. Organizer of meetups and conferences. Helping out others wherever he can. When he is not breathing code, he is fiddling around with IOT, photography, science and anything that might vaguely is gadget-like! Thinks he a master of the grill, but in reality you probably don't get a food-poisoning ;) Also, and actually the most important thing to him, he is a father of 4, and has the most patient girlfriend in the universe.",
  "group": "GDE"
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"filipbech": {
  "name": "Filip Bruun Bech-Larsen",
  "picture": "filipbech.jpg",
  "twitter": "filipbech",
  "website": "http://filipbech.github.io/",
  "bio": "Filip is a Frontend developer from Denmark. He works at IMPACT, delivering large-scale, high-performance e-commerce to international clients - most often build in Angular. He runs the local Angular usergroup - ngAarhus, and gives talks/workshops around and beyond the country of Denmark.",
  "group": "GDE"
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"ocombe": {
  "name": "Olivier Combe",
  "picture": "ocombe.jpg",
  "twitter": "ocombe",
  "bio": "Olivier is a passionate front-end engineer who loves interacting with the community by doing open source projects (ocLazyLoad, ngx-translate), being a panelist at Angular-Air, giving talks or just chatting on Twitter and Slack. Hes a member of the Angular Core team and works on i18n.",
  "group": "Angular"
},
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"cironunes": {
  "name": "Ciro Nunes",
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"picture": "cironunes.jpg",
"twitter": "cironunesdev",
"bio": "Ciro is the Lead Front-end Engineer of CrossEngage and Google Developer Expert in Web Technologies.",
"group": "GDE"
},
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"elecash": {
  "name": "Ral Jimnez",
  "picture": "raul.jpg",
  "twitter": "elecash",
  "bio": "Raul works as a CEO and Front-end Architect at Byte Default for companies around the world helping them to build high-performance web apps. In his spare time he's usually working on Videogular, involved in local meetups, speaking at conferences and contributing to open source projects.",
  "group": "GDE"
},
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"simpulton": {
  "name": "Lukas Ruebbelke",
  "picture": "lukas.jpg",
  "twitter": "simpulton",
  "bio": "Developer. Hacker. Community backer. Author and blogger. Console logger.",
  "group": "GDE"
},
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"christianweyer": {
  "name": "Christian Weyer",
  "picture": "christianweyer.jpg",
  "twitter": "ChristianWeyer",
  "website": "https://www.thinktecture.com",
  "bio": "Co-founder and CTO of Thinktecture AG, as well as Google GDE and Microsoft MVP. Since two decades active as an engaged and passionate speaker on several software conferences and events all over the world. Some people call him 'Mr. Cross-Platform'.",
  "group": "GDE"
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"shaireznik": {
  "name": "Shai Reznik",
  "picture": "shaireznik.jpg",
  "twitter": "shai_reznik",
  "website": "https://www.hirez.io",
  "bio": "Teaches Angular at HiRez.io the most entertaining online courses on the web. An experienced developer, consultant and speaker also known for his unusual crazy Angular talks such as ng-wat, ng-show, ng-rap, etc. Shai is also the organizer of the largest JavaScript group in Israel and a professional Improv performer.",
  "group": "GDE"
},
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"danwahlin": {
  "name": "Dan Wahlin",
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"picture": "danwahlin.jpg",
"twitter": "DanWahlin",
"website": "https://codewithdan.com",
"bio": "Dan Wahlin founded Wahlin Consulting which provides consulting and onsite/online training services on Web technologies such as JavaScript, Angular, TypeScript, Node.js, C#, ASP.NET Core, Web API, and Docker. Hes also published many developer courses on Pluralsight.com and Udemy.com. Dan is a Google GDE, Docker Captain, and Microsoft MVP and Regional Director and speaks at conferences and user groups around the world. Dan has written several books on Web technologies, hundreds of technical articles and blog posts (https://blog.codewithdan.com) and runs the 'Code with Dan Web Weekly Newsletter' - a great way to stay up on the latest technologies. Follow Dan on Twitter @DanWahlin.",
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"group": "GDE"
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"joeeames": {
  "name": "Joe Eames",
  "picture": "joeeames.jpg",
  "twitter": "josepheames",
  "website": "https://joeeames.me",
  "bio": "Joe Eames is a developer and educator. He publishes course on Angular and JavaScript on Pluralsight.com. He is an organizer of ng-conf, a Google Developer Expert in Angular, gives lots of talks & workshops, and loves all things web.",
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"group": "GDE"
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"willmendesneto": {
  "name": "Wilson Mendes",
  "picture": "willmendesneto.jpg",
  "twitter": "willmendesneto",
  "website": "https://willmendesneto.github.io",
  "bio": "GDE (Google Developer Expert) Angular and Web Technologies, GDG Salvador organizer, passionate about technology and active in communities with a focus on web development, including Angular, JavaScript, HTML5, CSS3, Workflow, web performance, security and Internet of things. Participates in events organization, speaker at conferences in Brazil and other countries and contributes to several open source projects.",
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"group": "GDE"
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"jecelynyeen": {
  "name": "Jecelyn Yeen",
  "picture": "jecelynyeen.jpg",
  "twitter": "jecelynyeen",
  "website": "https://developers.google.com/experts/people/jecelyn-yeen",
  "bio": "GDE (Google Developer Expert) Angular and Web Technologies, Women Who Code KL Director, Jecelyn specializes in professional application development with technologies, including Angular, HTML5, Typescript, JavaScript, CSS, C#, NodeJs, Cloud and ASP.NET.",
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"group": "GDE"
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"vincirufus": {
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"picture": "vincirufus.jpg",
"twitter": "areai51",
"website": "https://developers.google.com/experts/people/vinci-rufus",
"bio": "Director of Experience Technology at SapientRazorfish. Consults various brands on their frontend and mobile web architecture. A speaker at various forums and mentor at Launchpad Accelerator and ngGirls India. Spends free time playing with Angular, Preact, web-components ",
"group": "GDE"
},
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  "name": "Thierry Chatel",
  "picture": "thierrychatel.jpg",
  "twitter": "ThierryChatel",
  "website": "http://www.methotic.com",
  "bio": "Thierry is a senior consultant and trainer, specialized on Angular, and a Google Developer Expert.",
  "group": "GDE"
},
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"gerardsans": {
  "name": "Gerard Sans",
  "picture": "gerardsans.jpg",
  "twitter": "gerardsans",
  "website": "https://medium.com/@gerard.sans",
  "bio": "Gerard is very excited about the future of the Web and JavaScript. Always happy Computer Science Engineer and humble Google Developer Expert. He loves to share his learnings by giving talks, trainings and writing about cool technologies. He loves running AngularZone and GraphQL London, mentoring students and giving back to the community.",
  "group": "GDE"
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"amcdnl": {
  "name": "Austin McDaniel",
  "picture": "amcdnl.jpeg",
  "twitter": "amcdnl",
  "website": "https://amcdnl.com",
  "bio": "Austin is an software architect with a passion for JavaScript and Angular. Austin loves to share his experiences with other like-minded developers by giving talks, blogging, podcasting and open-sourcing.",
  "group": "Angular"
},
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"nirkaufman": {
  "name": "Nir Kaufman",
  "picture": "nirkaufman.jpg",
  "twitter": "nirkaufman",
  "website": "http://ngnir.life/",
  "bio": "Nir is a Principal Frontend Consultant & Head of the Angular department at 500Tech, Google Developer Expert and community leader. He organizes the largest Angular meetup group in Israel (Angular-IL), talks and
```

teaches about front-end technologies around the world. He is also the author of two books about Angular and the founder of the 'Frontend Band'.",

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"group": "GDE"  
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"achautard": {
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"name": "Alain Chautard",  
"picture": "alainchautard.png",  
"twitter": "AlainChautard",  
"website": "http://www.angulartraining.com",
```

"bio": "Alain Chautard is a Google Developer Expert in Web Technologies / Angular. He started working with Angular JS in 2011. Since then he has worked with all Angular versions on a daily basis, both as a developer and as a technical trainer. He is the organizer of the Sacramento Angular Meetup group, co-organizer of the Google Developer Group chapter in Sacramento, California, and published author of the Packt video course 'Getting Started with Angular'",

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"group": "GDE"  
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"coryrylan": {
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"name": "Cory Rylan",  
"picture": "cory-rylan.jpg",  
"twitter": "coryrylan",  
"website": "https://coryrylan.com",
```

"bio": "Cory is a full time front end web developer. He works full time building responsive web applications and progressive web apps. When not building web apps he is busy teaching Angular and other web technologies in workshops and conferences. He loves the web and is optimistic of the places it can take us.",

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"group": "GDE"  
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"mhartington": {
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```
"name": "Mike Hartington",  
"picture": "mhartington.png",  
"twitter": "mhartington",  
"website": "https://mhartington.io",
```

"bio": "Mike is a Developer Advocate for the Ionic Framework and a GDE in Angular. He spends most of his time making fast PWAs and exploring emerging web standards. When not behind a keyboard, you'll probably find him with a guitar and beer.",

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"group": "GDE"  
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"juristr": {
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```
"name": "Juri Strumpflohner",  
"picture": "juristr.jpg",  
"twitter": "juristr",  
"website": "https://juristr.com",
```

"bio": "Juri is a software engineer and freelance trainer and consultant currently mostly focusing on the frontend side using JavaScript, TypeScript and Angular. He has a passion for teaching and sharing his knowledge and experiences with others. This mostly happens by writing tech articles for his personal blog, by creating video

courses for Egghead.io, during on-site workshops at companies or by speaking at conferences. In his free time he enjoys practicing Yoseikan Budo, a martial art where he currently owns the 3rd DAN black belt.",

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"group": "GDE"  
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"mashhoodr": {
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"name": "Mashhood Rastgar",  
"picture": "mashhood.jpg",  
"twitter": "mashhoodr",  
"website": "http://imars.info/",
```

"bio": "Mashhood is the principal technical consultant at Recurship and a Google Developer Expert. He works with different startups in US and EU to help them crawl through the technical maze and quickly build amazing products focused around the problems they are trying to solve. He specializes in using the latest web technologies available to execute the best possible solutions.",

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"group": "GDE"  
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"kimmaida": {
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"name": "Kim Maida",  
"picture": "kimmaida.jpg",  
"twitter": "KimMaida",  
"website": "https://kmaida.io/",
```

"bio": "Kim is an Angular consultant, developer, speaker, writer, and Google Developer Expert. She is passionate about learning from and sharing knowledge with other developers through blogging, speaking, workshops, and open source.",

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"group": "GDE"  
},
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"elanaolson": {
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```
"name": "Elana Olson",  
"picture": "elanaolson.jpg",  
"twitter": "elanathellama",
```

"bio": "Elana is a Developer Relations intern on the Angular team at Google. She is working on migration paths from AngularJS to Angular and would love to chat about your experience with upgrading.",

```
"group": "Angular"  
},
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"kevinyang": {
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"name": "Kevin Yang",  
"picture": "kevinyang.jpg",  
"twitter": "chgc",  
"website": "https://blog.kevinyang.net/",
```

"bio": "Kevin is an Angular Taiwan, Angular Girls Taiwan community organizer. He loves sharing knowledge with other developers through blogging, speaking, workshops.",

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"group": "GDE"  
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    "name": "Sajeetharan Sinnathurai",
    "picture": "sajee.jpg",
    "twitter": "kokkisajee",
    "website": "https://sajeetharan.herokuapp.com/",
    "bio": "Sajeetharan is a Developer, Top contributor on stackoverflow for #Angular, ng-SriLanka organizer. He makes use of his extensive knowledge over the past years to contribute to community to make the world a better place.",
    "group": "GDE"
  },

  "lacolaco": {
    "name": "Suguru Inatomi",
    "picture": "lacolaco.jpg",
    "twitter": "laco2net",
    "website": "https://lacolaco.net",
    "bio": "Suguru is a community-loving Frontend developer and a lead of Angular Japan User Group. He organizes the largest Angular event in Japan (ng-japan). And he is a contributor to Angular by sending patches, writing, speaking, and localizing resources in Japanese.",
    "group": "GDE"
  },

  "katerina": {
    "name": "Katerina Skroumpelou",
    "picture": "katerina.jpg",
    "twitter": "psybercity",
    "website": "https://mandarini.github.io/",
    "bio": "Katerina is a front end software engineer, a conference speaker and AngularAthens meetup organizer. She is obsessed with sharing knowledge about things she loves. She is also trying to support diversity in the community. She lives with her cat in Athens.",
    "group": "GDE"
  },

  "blove": {
    "name": "Brian Love",
    "picture": "brian-love.jpg",
    "twitter": "brian_love",
    "website": "https://brianflove.com",
    "bio": "Brian is a software engineer and GDE in Angular with a passion for learning, writing, speaking, teaching and mentoring. Brian has been building web applications for over 20 years and has long been a fanboy of JavaScript. When not in front of his Macbook Pro Brian is in the Rocky Mountains skiing or hiking.",
    "group": "GDE"
  }
}

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*/

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1.11 Angular local storage 0.0.1

1.11.1 Available under license :

Angular Local Storage
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1.12 angular-bootstrap 2.5.0

1.12.1 Available under license :

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1.13 angular-sortablejs 2.6.0

1.13.1 Available under license :

MIT License

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1.14 Angular-UI map 0.5.0 :(2013-12-28)

1.14.1 Available under license :

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1.15 angular-ui-calendar 0.9.0-beta.1

1.15.1 Available under license :

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1.16 angular-ui-grid 4.6.6

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1.18 angular2-draggable 1.4.2

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This distribution includes a binary distribution of Mozilla Rhino 1.6 release 5
plus one patch.

You can get the unpatched 1.6R5 release of Rhino from the following URL:

ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1_6R5.zip

To obtain the source code for the 1.6R5 release of Rhino, issue the following
commands:

```
cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \
```

co -D2006-11-20 mozilla/js/rhino

The patch is available here:

<https://bugzilla.mozilla.org/attachment.cgi?id=288467>

which is attached to this bug:

https://bugzilla.mozilla.org/show_bug.cgi?id=367627

Rhino is licensed under both the MPL (Mozilla Public License) 1.1 and the GPL (GNU General Public License) 2.0, which are duplicated below.

The Rhino jar also includes four classes:

org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java

org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java

org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java

org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java

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1.31 Bean Validation API 1.1.0.Final

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1.33 boost 1.57.0

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1.34 boost_1.45.0 1.45.0

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1.35 Bootstrap 3.3.7

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1.36 byte-buddy 1.9.6

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  _gaq.push(['_setDomainName', 'jsoup.org']);
  _gaq.push(['_trackPageview']);

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    ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
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<a href="http://jhy.io/" rel="author"><b>Jonathan Hedley</b></a>
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</body>

</html>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"

"http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" version="XHTML+RDFa 1.0" dir="ltr">

```

<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <link rel="shortcut icon" href="http://opensource.org/files/garland_favicon.png" type="image/png" />
  <link rel="shortlink" href="/node/66" />
  <link rel="canonical" href="/licenses/MIT" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <title>The MIT License (MIT) | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2ATB4XKGEvmoUk_p62PwI-
o2aW47EqqS0nD2dmPZoV4.css" media="all" />
  <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2wI77kyP-
rJKVpFW5M3KFcj7Cb99lZalmubKIwWwsmU.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_k3snrbsthqot7V7ccRZHS9OkCZkwBv4adtNieIVlbeEU.css" media="print"
/>

<!--[if lt IE 7]>
<link type="text/css" rel="stylesheet" href="http://opensource.org/themes/garland/fix-ie.css?nfb7pm" media="all"
/>
<![endif]-->
<script type="text/javascript"
src="http://opensource.org/files/js/js_xAPI0qIk9eowy_iS9tNkCWXLUVoat94SQT48UBCFkyQ.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{ "basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"garland","theme_token":"meUjjBBfr6QFJv5kp0oKi152
l673C3xJMLGIQzbH9g0"},"js":{"misc\/jquery.js":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1},"css":{"modules\/s
ystem\/system.base.css":1,"modules\/system\/system.menus.css":1,"modules\/system\/system.messages.css":1,"mod
ules\/system\/system.theme.css":1,"modules\/aggregator\/aggregator.css":1,"modules\/comment\/comment.css":1,"m
odules\/field\/theme\/field.css":1,"sites\/all\/modules\/mollom\/mollom.css":1,"modules\/node\/node.css":1,"modules
\/search\/search.css":1,"modules\/user\/user.css":1,"themes\/garland\/style.css":1,"themes\/garland\/print.css":1,"the
mes\/garland\/fix-ie.css":1}}});
//--><![]]>
</script>
</head>
<body class="html not-front not-logged-in one-sidebar sidebar-first page-node page-node- page-node-66 node-type-
page fluid-width" >
  <div id="skip-link">
    <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
  </div>

  <div id="wrapper">
    <div id="container" class="clearfix">

      <div id="header">
        <div id="logo-floater">
          <div id="branding"><strong><a href="/">

```



```

<span>Open Source Initiative</span>      </a></strong></div>
</div>
```

```
</div> <!-- /#header -->
```

```
<div id="sidebar-first" class="sidebar">
<div class="region region-sidebar-first">
<div id="block-search-form" class="block block-search clearfix">
```

```
<h2 class="title">Search this site:</h2>
```

```
<div class="content">
<form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
```

```
<div class="form-item form-type-textfield form-item-search-block-form">
<label class="element-invisible" for="edit-search-block-form--2">Search </label>
<input title="Enter the terms you wish to search for." type="text" id="edit-search-block-form--2"
name="search_block_form" value="" size="15" maxlength="128" class="form-text" />
</div>
```

```
<div class="form-actions form-wrapper" id="edit-actions"><input type="submit" id="edit-submit" name="op"
value="Search" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
MyBqFtDVdzOmaSnCHKIG9yhm0ofMr7fNMG5Vy76N_uk" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
```

```
</div></form> </div>
```

```
</div>
```

```
<div id="block-system-navigation" class="block block-system block-menu clearfix">
```

```
<h2 class="title">Navigation</h2>
```

```
<div class="content">
```

```
<ul class="menu"><li class="first collapsed"><a href="/about" title="About the Open Source Initiative">About
the OSI</a></li>
```

```
<li class="collapsed"><a href="/osd" title="The actual OSD defining what constitutes an Open Source licence">The
Open Source Definition</a></li>
```

```
<li class="collapsed"><a href="/licenses">Open Source Licenses</a></li>
```

```
<li class="leaf"><a href="/working_groups">Working Groups</a></li>
```

```
<li class="leaf"><a href="/faq" title="Frequently Asked Questions about open source and about the
OSI.">FAQ</a></li>
```

```
<li class="collapsed"><a href="/trademark" title="Information about trademark and logo usage">Trademark and
Logo Usage</a></li>
```

```
<li class="collapsed"><a href="/osr-intro" title="Open Standards Requirement for Software">Open
Standards</a></li>
```

```
<li class="leaf"><a href="/osi-open-source-education" title="OSI's Open Source Education Initiative and
Activities">Open Source Education</a></li>
```

```
<li class="collapsed"><a href="/lists" title="The virtual committees where the OSI's work gets
```

```

done">Mailing lists</a></li>
<li class="collapsed"><a href="/help" title="Resources for questions and further exploration">Getting
Help</a></li>
<li class="collapsed"><a href="http://opensource.org/donate" title="">Donate to the OSI</a></li>
<li class="leaf"><a href="/members">OSI Individual Membership</a></li>
<li class="leaf"><a href="/store">OSI Store</a></li>
<li class="collapsed"><a href="/affiliates" title="Home page for OSI&#039;s membership scheme for non-profits
and not-for-profits">OSI Affiliate Membership</a></li>
<li class="leaf"><a href="/contact" title="">Contact OSI</a></li>
<li class="leaf"><a href="/ToS" title="Rules for posting content on this site">Terms of Service</a></li>
<li class="last leaf"><a href="/support">OSI Corporate Support</a></li>
</ul> </div>
</div>
</div>
</div>

```

```

<div id="center"><div id="squeeze"><div class="right-corner"><div class="left-corner">
<h2 class="element-invisible">You are here</h2><div class="breadcrumb"><a href="/">Home</a></div>
<a id="main-content"></a>
<div id="tabs-wrapper" class="clearfix"> <h1 class="with-tabs">The MIT License
(MIT)</h1>
</div> <div class="clearfix">
<div class="region region-content">
<div id="block-system-main" class="block block-system clearfix">

```

```

<div class="content">
<div id="node-66" class="node node-page">

```

```

<div class="content clearfix">

<div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p>The MIT License (MIT)</p>
<p>Copyright (c) <year> <copyright holders></p>
<p>Permission is hereby granted, free of charge, to any person obtaining a copy<br />
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in the Software without restriction, including without limitation the rights<br />
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THE SOFTWARE.</p>

</div></div></div> </div>

<div class="clearfix">
 <div class="links"></div>

</div>

</div>

</div>

</div>

</div>

</div>

<div class="region region-footer">

<div id="block-block-11" class="block block-block clearfix">

<div class="content">

<p style="text-align:center">Help shape the future of the Open Source Initiative...
visit and participate in the OSI wiki.

</p>

<div>

<a href="https://twitter.com/OpenSourceOrg" class="twitter-follow-button" data-show-count="false" data-
lang="en">Follow @OpenSourceOrg

<script>

<!--><![CDATA[</><!--

!function(d,s,id){var

js,fjs=d.getElementsByTagName(s)[0];if(!d.getElementById(id)){js=d.createElement(s);js.id=id;js.src="//platform.t
witter.com/widgets.js";fjs.parentNode.insertBefore(js,fjs);}(document,"script","twitter-wjs");

//><![>

</script></div>

<p>

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<!-- <rdf:RDF xmlns="http://web.resource.org/cc/" xmlns:dc="http://purl.org/dc/elements/1.1/"

xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">

<Work rdf:about="">

```
<license rdf:resource="http://creativecommons.org/licenses/by/3.0/" />
</Work>
<License rdf:about="http://creativecommons.org/licenses/by/3.0/"><permits
rdf:resource="http://web.resource.org/cc/Reproduction"/><permits
rdf:resource="http://web.resource.org/cc/Distribution"/><requires
rdf:resource="http://web.resource.org/cc/Notice"/><requires
rdf:resource="http://web.resource.org/cc/Attribution"/><permits
rdf:resource="http://web.resource.org/cc/DerivativeWorks"/></License></rdf:RDF>
-->
```

```
| <a href=" ../ToS">Terms of Service</a>
```

```
</p>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">
```

```
<div class="content">
<script src="http://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--
```

```
//--><!]]>
</script><script type="text/javascript">
<!--/--><![CDATA[// ><!--
```

```
_uacct = "UA-3916956-1";
urchinTracker();
```

```
//--><!]]>
</script> </div>
</div>
</div>
```

```
</div></div></div></div> <!-- /.left-corner, /.right-corner, /#squeeze, /#center -->
```

```
</div> <!-- /#container -->
</div> <!-- /#wrapper -->
</body>
</html>
```

```
=====
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=====
```

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<html xmlns="http://www.w3.org/1999/xhtml">

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<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
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<style type="text/css">
body {
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    margin: 0.25in 0.5in 0.25in 0.5in;
    tab-interval: 0.5in;
}
p {
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    margin-top: 0.5em;
    margin-bottom: 0.5em;
}
p.list {
    margin-left: 0.5in;
    margin-top: 0.05em;
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<body lang="EN-US">

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
```

```
<html lang="en">
```

```
<head>
```

```
<title>Apache License, Version 2.0</title>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
```

```
<meta property="og:image" content="http://www.apache.org/images/asf_logo.gif" />
```

```
<link rel="stylesheet" type="text/css" media="screen" href="/css/style.css">
```

```
<link rel="stylesheet" type="text/css" media="screen" href="/css/code.css">
```

```
<script type="text/javascript" src="/js/jquery.js"></script>
```

```
<script type="text/javascript" src="/js/apache_boot.js"></script>
```

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</head>

<body>

<div id="page" class="container_16">

<div id="header" class="grid_8">

<h1>The Apache Software Foundation</h1>

<h2>Apache License, Version 2.0</h2>

</div>

<div id="nav" class="grid_8">

<!-- Home -->

Foundation

Projects

People

Get Involved

Download

Support Apache

<p>Home » Licenses</p>

<form name="search" id="search" action="http://www.google.com/search" method="get">

<input value="apache.org" name="sitesearch" type="hidden">

<input type="text" name="q" id="query">

<input type="submit" id="submit" value="Search">

</form>

</div>

<div class="clear"></div>

<div id="content" class="grid_16"><div class="section-content"><p>Apache License

Version 2.0, January 2004
</p>

http://www.apache.org/licenses/ </p>

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```
<div class="codehilite"><pre>Copyright [yyyy] [name of copyright owner]
```

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```
</pre></div></div></div>
```

```
<div class="clear"></div>
```

```
</div>
```

```
<div id="footer" class="container_16">
```

```
<div class="links grid_16">
```

```
<div class="grid_3">
```

```
<h4>Projects</h4>
```

```
<ul>
```

```
<li><a href="http://httpd.apache.org/" title="Apache Web Server (httpd)">HTTP Server</a></li>
```

```
<li><a href="http://abdera.apache.org/" title="Atom Publishing Protocol Implementation">Abdera</a></li>
```

```
<li><a href="http://accumulo.apache.org/" title="Sorted, distributed key/value store">Accumulo</a></li>
```

```
<li><a href="http://ace.apache.org/" title="Centralized life cycle management and deployment of OSGi based and related modular software artifacts for distribution.">ACE</a></li>
```

```
<li><a href="http://activemq.apache.org/" title="Distributed Messaging System">ActiveMQ</a></li>
```

```
<li><a href="http://airavata.apache.org/" title="Workflow and Computational Job Management Middleware">Airavata</a></li>
```

```
<li><a href="http://allura.apache.org/" title="Forge software for hosting software projects">Allura</a></li>
```

```
<li><a href="http://ambari.apache.org/" title="Hadoop cluster management">Ambari</a></li>
```

```
<li><a href="http://ant.apache.org/" title="Java-based build tool">Ant</a></li>
```

```
<li><a href="http://any23.apache.org/" title="Anything to Triples">Any23</a></li>
```

```
<li><a href="http://apr.apache.org/" title="Apache Portable Runtime libraries">APR</a></li>
```

```
<li><a href="http://archiva.apache.org/" title="Build Artifact Repository Manager">Archiva</a></li>
```

```
<li><a href="http://aries.apache.org/" title="Enterprise OSGi application programming model">Aries</a></li>
```

```
<li><a href="http://avro.apache.org/" title="A Serialization System">Avro</a></li>
```

```
<li><a href="http://axis.apache.org/" title="Java SOAP Engine">Axis</a></li>
```

```
<li><a href="http://bigtop.apache.org/" title="Apache Hadoop ecosystem integration and distribution project">Bigtop</a></li>
```

```
<li><a href="http://bloodhound.apache.org/" title="Issue tracking, wiki and repository
```


browser">Bloodhound

Buildr

BVal

Camel

Cassandra

Cayenne

Chemistry

Chukwa

Clerezza

CloudStack

Cocoon

Commons

Continuum

Cordova

CouchDB

Creadur

Crunch

cTAKES

Curator

CXF

DB

Deltacloud

DeltaSpike

DirectMemory

Directory

Empire-db

Etch

Felix

Flex

Flume

Forrest

- Geronimo
- Giraph
- Gora
- Gump
- Hadoop
- Hama
- HBase
- Helix
- Hive
- HttpComponents
- Isis
- Jackrabbit
- James
- jclouds
- Jena
- JMeter
- JSPWiki
- jUDDI
- Kafka
- Karaf
- Knox
- Lenya
- Libcloud
- Logging
- Lucene
- Lucene.Net
- Lucy
- Mahout
- ManifoldCF
- Marmotta
- Maven
- Mesos
- MINA
- MRUnit

- MyFaces
- Nutch
- ODE
- OFBiz
- Olingo
- Oltu
- Onami
- OODT
- Oozie
- Open Climate Workbench
- OpenJPA
- OpenMeetings
- OpenNLP
- OpenOffice
- OpenWebBeans
- PDFBox
- Perl
- Pig
- Pivot
- POI
- Portals
- Qpid
- Rave
- River
- Roller
- Santuario
- ServiceMix
- Shindig
- Shiro
- SIS
- Sling
- SpamAssassin
- Spark
- Sqoop
- <a href="http://stanbol.apache.org/" title="Reusable components for semantic content

- management">Stanbol
- STeVe
- Storm
- Struts
- Subversion
- Synapse
- Syncope
- Tajo
- Tapestry
- Tcl
- Tez
- Thrift
- Tika
- Tiles
- Tomcat
- TomEE
- Traffic Server
- Turbine
- Tuscany
- UIMA
- VCL
- Velocity
- VXQuery
- Web Services
- Whirr
- Wicket
- Wink
- Wookie
- Xalan
- Xerces
- XMLBeans
- XML Graphics
- ZooKeeper


```

</div>
<div class="grid_3">
  <h4>Foundation</h4>
  <ul>
    <li><a href="/foundation/faq.html">FAQ</a></li>
    <li><a href="/foundation/glossary.html">Glossary</a></li>
    <li><a href="/licenses/" title="Overview of the Apache Licenses">Licenses</a></li>
    <li><a href="/foundation/marks/" title="Apache marks policies and listing">Trademarks</a></li>
    <li><a href="/foundation/news.html" title="Official news feed of Foundation announcements">News</a></li>

    <li><a href="/press/" title="Press, Media, and Analyst contact">Press Inquiries</a></li>
    <li><a href="/foundation/records/" title="Formal corporate records and board meeting minutes">Public
Records</a></li>
    <li><a href="/foundation/maillinglists.html" title="Mailing lists and Apache">Mailing Lists</a></li>
    <li><a href="/foundation/sponsorship.html" title="Sponsor the Foundation">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html" title="Donate to the Foundation">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html" title="Buy Apache branded merchandise">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html" title="Thank you to our Sponsors">Thanks</a></li>
    <li><a href="/foundation/contact.html" title="Contact Us">Contact</a></li>
  </ul>
</div>
<div class="grid_3 suffix_1">
  <h4>Foundation Projects</h4>
  <ul>
    <li><a href="http://attic.apache.org/" title="Inactive projects repository">Attic</a></li>
    <li><a href="/foundation/conferences.html" title="Meetings of developers and users">Conferences</a></li>
    <li><a href="http://community.apache.org/" title="Helping newcomers to the ASF">Community
Development</a></li>
    <li><a href="http://incubator.apache.org/" title="Shepherd for new projects">Incubator</a></li>
    <li><a href="/dev/" title="ASF Infrastructure: Operations and howto documents for PMCs and
contributors">Infrastructure</a></li>
    <li><a href="http://labs.apache.org/" title="The Innovation Laboratories of the Apache Software
Foundation">Labs</a></li>
    <li><a href="/legal/" title="Legal Affairs">Legal Affairs</a></li>
    <li><a href="/press/" title="Public Relations">Public Relations</a></li>
    <li><a href="/security/" title="Security">Security</a></li>
    <li><a href="/travel/" title="Travel Assistance">Travel Assistance</a></li>
  </ul>
</div>

<div class="grid_3">
  <h4>Community</h4>
  <ul>
    <li><a href="http://people.apache.org/" title="Apache committer homepages">People</a></li>
    <li><a href="/memorials/" title="In memoriam of past committers">Memorials</a></li>
    <li><a href="http://feathercast.apache.org/" title="Apache Podcasts">Feathercast</a></li>
    <li><a href="http://blogs.apache.org/" title="Apache Project Blogs">Project Blogs</a></li>
    <li><a href="http://planet.apache.org/committers/" title="Apache Committers' Blogs">PlanetApache</a></li>
  </ul>

```

```

</ul>
</div>
<div class="grid_3">
  <h4>How It Works</h4>
  <ul>
    <li><a href="/foundation/how-it-works.html">Introduction</a></li>
    <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
    <li><a href="/foundation/how-it-works.html#structure">Structure</a></li>
    <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
    <li><a href="/foundation/how-it-works.html#management">Collaboration</a></li>
    <li><a href="/foundation/how-it-works.html#incubator">Incubator</a></li>
    <li><a href="/foundation/how-it-works.html#other">Other entities</a></li>
    <li><a href="/foundation/glossary.html">Glossary</a></li>
    <li><a href="/foundation/voting.html">Voting</a></li>
  </ul>
</div>
</div>
<div class="clear"></div>

</div>
<div id="copyright" class="container_16">
  <p>Copyright © 2012 The Apache Software Foundation, Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.<br/>Apache and the
Apache feather logo are trademarks of The Apache Software Foundation.</p>
</div>
</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"
"http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" version="XHTML+RDFa 1.0" dir="ltr">

<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <link rel="shortcut icon" href="http://opensource.org/files/garland_favicon.png" type="image/png" />
  <link rel="shortlink" href="/node/66" />
  <link rel="canonical" href="/licenses/MIT" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <title>The MIT License (MIT) | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2ATB4XKGEvmoUk_p62PwI-
o2aW47EqqS0nD2dmPZoV4.css" media="all" />
  <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2wi77kyP-
rJKVpFW5M3KFcj7Cb99lZalmubKIwWwsmU.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_k3snrbsthqot7V7ccRZHS9OkCZkwBv4adtNieIV1bEU.css" media="print"
/>

```

```

<!--[if lt IE 7]>
<link type="text/css" rel="stylesheet" href="http://opensource.org/themes/garland/fix-ie.css?nfb7pm" media="all"
/>
<![endif]-->
<script type="text/javascript"
src="http://opensource.org/files/js/js_xAPI0qIk9eowy_is9tNkCWXLUVoat94SQT48UBCFkyQ.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"garland","theme_token":"meUjjBBfr6QFJv5kp0oKi152
l673C3xJMLGIQzbH9g0"},"js":{"misc\/jquery.js":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1},"css":{"modules\/s
ystem\/system.base.css":1,"modules\/system\/system.menus.css":1,"modules\/system\/system.messages.css":1,"mod
ules\/system\/system.theme.css":1,"modules\/aggregator\/aggregator.css":1,"modules\/comment\/comment.css":1,"m
odules\/field\/theme\/field.css":1,"sites\/all\/modules\/mollom\/mollom.css":1,"modules\/node\/node.css":1,"modules
\/search\/search.css":1,"modules\/user\/user.css":1,"themes\/garland\/style.css":1,"themes\/garland\/print.css":1,"the
mes\/garland\/fix-ie.css":1}}});
//--><![]]>
</script>
</head>
<body class="html not-front not-logged-in one-sidebar sidebar-first page-node page-node- page-node-66 node-type-
page fluid-width" >
<div id="skip-link">
<a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>

<div id="wrapper">
<div id="container" class="clearfix">

<div id="header">
<div id="logo-floater">
<div id="branding"><strong><a href="">

<span>Open Source Initiative</span> </a></strong></div>
</div>

</div> <!-- /#header -->

<div id="sidebar-first" class="sidebar">
<div class="region region-sidebar-first">
<div id="block-search-form" class="block block-search clearfix">

<h2 class="title">Search this site:</h2>

<div class="content">
<form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">

```

```

<div class="form-item form-type-textfield form-item-search-block-form">
<label class="element-invisible" for="edit-search-block-form--2">Search </label>
<input title="Enter the terms you wish to search for." type="text" id="edit-search-block-form--2"
name="search_block_form" value="" size="15" maxlength="128" class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input type="submit" id="edit-submit" name="op"
value="Search" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
MyBqFtDVdzOmaSnCHKIG9yhm0ofMr7fNMG5Vy76N_uk" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
<div id="block-system-navigation" class="block block-system block-menu clearfix">

```

```

<h2 class="title">Navigation</h2>

```

```

<div class="content">
<ul class="menu"><li class="first collapsed"><a href="/about" title="About the Open Source Initiative">About
the OSI</a></li>
<li class="collapsed"><a href="/osd" title="The actual OSD defining what constitutes an Open Source licence">The
Open Source Definition</a></li>
<li class="collapsed"><a href="/licenses">Open Source Licenses</a></li>
<li class="leaf"><a href="/working_groups">Working Groups</a></li>
<li class="leaf"><a href="/faq" title="Frequently Asked Questions about open source and about the
OSI.">FAQ</a></li>
<li class="collapsed"><a href="/trademark" title="Information about trademark and logo usage">Trademark and
Logo Usage</a></li>
<li class="collapsed"><a href="/osr-intro" title="Open Standards Requirement for Software">Open
Standards</a></li>
<li class="leaf"><a href="/osi-open-source-education" title="OSI's Open Source Education Initiative and
Activities">Open Source Education</a></li>
<li class="collapsed"><a href="/lists" title="The virtual committees where the OSI's work gets
done">Mailing lists</a></li>
<li class="collapsed"><a href="/help" title="Resources for questions and further exploration">Getting
Help</a></li>
<li class="collapsed"><a href="http://opensource.org/donate" title="">Donate to the OSI</a></li>
<li class="leaf"><a href="/members">OSI Individual Membership</a></li>
<li class="leaf"><a href="/store">OSI Store</a></li>
<li class="collapsed"><a href="/affiliates" title="Home page for OSI's membership scheme for non-profits
and not-for-profits">OSI Affiliate Membership</a></li>
<li class="leaf"><a href="/contact" title="">Contact OSI</a></li>
<li class="leaf"><a href="/ToS" title="Rules for posting content on this site">Terms of Service</a></li>
<li class="last leaf"><a href="/support">OSI Corporate Support</a></li>
</ul> </div>
</div>
</div>
</div>

```



```

<div id="center"><div id="squeeze"><div class="right-corner"><div class="left-corner">
  <h2 class="element-invisible">You are here</h2><div class="breadcrumb"><a href="/">Home</a></div>
  <a id="main-content"></a>
  <div id="tabs-wrapper" class="clearfix">
    <h1 class="with-tabs">The MIT License
(MIT)</h1>
    </div>
    <div class="clearfix">
      <div class="region region-content">
        <div id="block-system-main" class="block block-system clearfix">

<div class="content">
  <div id="node-66" class="node node-page">

<div class="content clearfix">
  
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p>The MIT License (MIT)</p>
<p>Copyright (c) <year> <copyright holders></p>
<p>Permission is hereby granted, free of charge, to any person obtaining a copy<br />
of this software and associated documentation files (the "Software"), to deal<br />
in the Software without restriction, including without limitation the rights<br />
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell<br />
copies of the Software, and to permit persons to whom the Software is<br />
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LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,<br />
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN<br />
THE SOFTWARE.</p>
</div></div></div> </div>

<div class="clearfix">
  <div class="links"></div>

</div>

</div>
</div>
</div>

```

```

</div>
  </div>
    <div class="region region-footer">
      <div id="block-block-11" class="block block-block clearfix">

        <div class="content">
          <p style="text-align:center">Help shape the future of the Open Source Initiative...<br /><a
href="http://osi.xwiki.com">visit and participate in the OSI wiki</a>.
        </p>

        <div>
          <a href="https://twitter.com/OpenSourceOrg" class="twitter-follow-button" data-show-count="false" data-
lang="en">Follow @OpenSourceOrg</a>
          <script>
            <!--<!--><![CDATA[// ><!--
            !function(d,s,id){ var
            js,fjs=d.getElementsByTagName(s)[0];if(!d.getElementById(id)){js=d.createElement(s);js.id=id;js.src="//platform.t
            witter.com/widgets.js";fjs.parentNode.insertBefore(js,fjs);}(document,"script","twitter-wjs");
            //><!--<!-->
          </script></div>

          <p>
            <!-- Creative Commons License --><a rel="license" href="http://creativecommons.org/licenses/by/4.0/"></a><br />Opensource.org site content is licensed under a <a rel="license"
            href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International
            License</a>.<!-- /Creative Commons License -->

            <!-- <rdf:RDF xmlns="http://web.resource.org/cc/" xmlns:dc="http://purl.org/dc/elements/1.1/"
            xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
            <Work rdf:about="">
              <license rdf:resource="http://creativecommons.org/licenses/by/3.0/" />
            </Work>
            <License rdf:about="http://creativecommons.org/licenses/by/3.0/"><permits
            rdf:resource="http://web.resource.org/cc/Reproduction"/><permits
            rdf:resource="http://web.resource.org/cc/Distribution"/><requires
            rdf:resource="http://web.resource.org/cc/Notice"/><requires
            rdf:resource="http://web.resource.org/cc/Attribution"/><permits
            rdf:resource="http://web.resource.org/cc/DerivativeWorks"/></License></rdf:RDF>
            -->

            | <a href=" ../ToS">Terms of Service</a>

          </p>
        </div>
      </div>
    </div id="block-block-7" class="block block-block clearfix">

```

```

<div class="content">
  <script src="http://www.google-analytics.com/urchin.js" type="text/javascript">
<!--><![CDATA[// ><!--

//--><!]]>
</script><script type="text/javascript">
<!--><![CDATA[// ><!--

_uacct = "UA-3916956-1";
urchinTracker();

//--><!]]>
</script> </div>
</div>
</div>
  </div></div></div></div> <!-- /.left-corner, /.right-corner, /#squeeze, /#center -->

  </div> <!-- /#container -->
</div> <!-- /#wrapper -->
</body>
</html>

```

1.37 byte-buddy-agent 1.7.9

1.38 ClassMate 1.2.0

1.38.1 Available under license :

Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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1.50 core-js 2.5.7

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1.52 dom4j 1.6.1

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1.57 fluent-hc 4.5.2

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```

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```
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Version 2.1, February 1999

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* m4/ax_func_which_gethostbyname_r.m4

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in

README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

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for producing a compiler intermediate representation.

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@center END OF TERMS AND CONDITIONS

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```
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`Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

```
That's all there is to it!
@ignore
@c Set file name and title for man page.
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
gpl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{ } 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
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@c hence no sectioning command or @node.
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@end ignore
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@ifset gfdlhtml
@ifnohtml
@comment node-name, next, previous, up
@node GNU Free Documentation License, Concept Index, Old, Top
@end ifnohtml
@html
<h1 align="center">Installing GCC: GNU Free Documentation License</h1>
@end html
@ifnohtml
@unnumbered GNU Free Documentation License
@end ifnohtml
@end ifset
@c man begin DESCRIPTION
@ifclear gfdlhtml
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@c ispell-local-pdict: "ispell-dict"
@c End:
```

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@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
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@end ignore
@node Copying
@c man begin DESCRIPTION
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4.0.5.Final

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1.69 Hibernate ORM Framework 5.4.0

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*

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*/

```
// $Id: Permission.java 10977 2006-12-12 23:28:04Z steve.ebersole@jboss.com $  
package org.hibernate.test.collection.original;
```

```

/**
 * @author Gavin King
 */
public class Permission {
    private String type;
    Permission() {}
    public String getType() {
        return type;
    }
    public void setType(String type) {
        this.type = type;
    }
    public Permission(String type) {
        this.type = type;
    }
    public boolean equals(Object that) {
        if ( !(that instanceof Permission) ) return false;
        Permission p = (Permission) that;
        return this.type.equals(p.type);
    }
    public int hashCode() {
        return type.hashCode();
    }
}
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 */
package org.hibernate.test.type.contributor;

import java.util.List;
import javax.persistence.Entity;
import javax.persistence.Id;
import javax.persistence.Table;

import org.hibernate.annotations.Type;
import org.hibernate.cfg.Configuration;
import org.hibernate.query.Query;

import org.hibernate.testing.TestForIssue;
import org.hibernate.testing.junit4.BaseCoreFunctionalTestCase;
import org.hibernate.test.collection.custom.basic.MyList;
import org.junit.Test;

import static org.hibernate.testing.transaction.TransactionUtil.doInHibernate;

```



```

import static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertTrue;

/**
 * @author Vlad Mihalcea
 */
@TestForIssue( jiraKey = "HHH-11409" )
public class ArrayTypeContributorTest extends BaseCoreFunctionalTestCase {

    @Override
    protected Class<?>[] getAnnotatedClasses() {
        return new Class[] { CorporateUser.class };
    }

    @Override
    protected Configuration constructAndConfigureConfiguration() {
        Configuration configuration = super.constructAndConfigureConfiguration();
        configuration.registerTypeContributor( (typeContributions, serviceRegistry) -> {
            typeContributions.contributeType( ArrayType.INSTANCE );
        } );
        return configuration;
    }

    @Override
    protected void prepareTest() throws Exception {
        doInHibernate( this::sessionFactory, session -> {
            CorporateUser user = new CorporateUser();
            user.setUserName( "Vlad" );
            session.persist( user );

            user.getEmailAddresses().add( "vlad@hibernate.info" );
            user.getEmailAddresses().add( "vlad@hibernate.net" );
        } );
    }

    @Override
    protected boolean isCleanupTestDataRequired() {
        return true;
    }

    @Test
    public void test() {
        doInHibernate( this::sessionFactory, session -> {
            List<CorporateUser> users = session.createQuery(
                "select u from CorporateUser u where u.emailAddresses = :address", CorporateUser.class )
                .setParameter( "address", new Array(), ArrayType.INSTANCE )
                .getResultList();
        } );
    }
}

```

```

        assertTrue( users.isEmpty() );
    });
}

@Test
public void testNativeSQL() {
    doInHibernate( this::sessionFactory, session -> {
        List<Array> emails = session.createNativeQuery(
            "select u.emailAddresses from CorporateUser u where u.userName = :name" )
            .setParameter( "name", "Vlad" )
            .getResultList();

        assertEquals( 1, emails.size() );
    });
}

@Entity(name = "CorporateUser")
public static class CorporateUser {

    @Id
    private String userName;

    @Type(type = "comma-separated-array")
    private Array emailAddresses = new Array();

    public String getUserName() {
        return userName;
    }

    public void setUserName(String userName) {
        this.userName = userName;
    }

    public Array getEmailAddresses() {
        return emailAddresses;
    }
}

}

package org.hibernate.test.type.contributor;

import java.util.Arrays;

import org.hibernate.type.descriptor.wrapper.WrapperOptions;
import org.hibernate.type.descriptor.java.AbstractTypeDescriptor;

/**

```

```

* @author Vlad Mihalcea
*/
public class ArrayTypeDescriptor extends AbstractTypeDescriptor<Array> {

    private static final String DELIMITER = ",";

    public static final ArrayTypeDescriptor INSTANCE = new ArrayTypeDescriptor();

    public ArrayTypeDescriptor() {
        super( Array.class );
    }

    @Override
    public String toString(Array value) {
        StringBuilder builder = new StringBuilder();
        for ( String token : value ) {
            if ( builder.length() > 0 ) {
                builder.append( DELIMITER );
            }
            builder.append( token );
        }
        return builder.toString();
    }

    @Override
    public Array fromString(String string) {
        if ( string == null || string.isEmpty() ) {
            return null;
        }
        String[] tokens = string.split( DELIMITER );
        Array array = new Array();
        array.addAll( Arrays.asList(tokens) );
        return array;
    }

    @SuppressWarnings({"unchecked"})
    public <X> X unwrap(Array value, Class<X> type, WrapperOptions options) {
        if ( value == null ) {
            return null;
        }
        if ( Array.class.isAssignableFrom( type ) ) {
            return (X) value;
        }
        if ( String.class.isAssignableFrom( type ) ) {
            return (X) toString( value );
        }
        throw unknownUnwrap( type );
    }
}

```

```

public <X> Array wrap(X value, WrapperOptions options) {
    if ( value == null ) {
        return null;
    }
    if ( String.class.isInstance( value ) ) {
        return fromString( (String) value );
    }
    if ( Array.class.isInstance( value ) ) {
        return (Array) value;
    }
    throw unknownWrap( value.getClass() );
}
}
package org.hibernate.test.type.contributor;

import java.util.ArrayList;

/**
 * @author Vlad Mihalcea
 */
public class Array extends ArrayList<String> {
}
package org.hibernate.test.type.contributor;

import org.hibernate.dialect.Dialect;
import org.hibernate.type.AbstractSingleColumnStandardBasicType;
import org.hibernate.type.DiscriminatorType;
import org.hibernate.type.descriptor.sql.VarcharTypeDescriptor;

/**
 * @author Vlad Mihalcea
 */
public class ArrayType
    extends AbstractSingleColumnStandardBasicType<Array>
    implements DiscriminatorType<Array> {

    public static final ArrayType INSTANCE = new ArrayType();

    public ArrayType() {
        super( VarcharTypeDescriptor.INSTANCE, ArrayTypeDescriptor.INSTANCE );
    }

    @Override
    public Array stringToObject(String xml) throws Exception {
        return fromString( xml );
    }
}

```

```

@Override
public String objectToSQLString(Array value, Dialect dialect) throws Exception {
    return toString( value );
}

@Override
public String getName() {
    return "comma-separated-array";
}

}
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 */

//$Id$
package org.hibernate.test.annotations.manytomany;
import java.util.Date;
import javax.persistence.Entity;
import javax.persistence.Id;

/**
 * @author Emmanuel Bernard
 */
@Entity
public class Permission {
    private String permission;
    private Date expirationDate;

    @Id
    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    public Date getExpirationDate() {
        return expirationDate;
    }

    public void setExpirationDate(Date expirationDate) {
        this.expirationDate = expirationDate;
    }
}

```

```

}
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 */

// $Id: Permission.java 7805 2005-08-10 16:25:11Z steveebersole $
package org.hibernate.test.version.sybase;
import java.util.Date;

/**
 * Implementation of Permission.
 *
 * @author Steve Ebersole
 */
public class Permission {
    private Long id;
    private Date timestamp;
    private String name;
    private String context;
    private String access;

    public Permission() {
    }

    public Permission(String name, String context, String access) {
        this.name = name;
        this.context = context;
        this.access = access;
    }

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }

    public Date getTimestamp() {
        return timestamp;
    }

    public void setTimestamp(Date timestamp) {
        this.timestamp = timestamp;
    }
}

```

```

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getContext() {
    return context;
}

public void setContext(String context) {
    this.context = context;
}

public String getAccess() {
    return access;
}

public void setAccess(String access) {
    this.access = access;
}
}
}
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 */

// $Id: Permission.java 7736 2005-08-03 20:03:34Z stevebersole $
package org.hibernate.test.version.db;
import java.util.Date;

/**
 * Implementation of Permission.
 *
 * @author Steve Ebersole
 */
public class Permission {
    private Long id;
    private Date timestamp;
    private String name;
    private String context;
    private String access;
}

```

```
public Permission() {
}

public Permission(String name, String context, String access) {
    this.name = name;
    this.context = context;
    this.access = access;
}

public Long getId() {
    return id;
}

public void setId(Long id) {
    this.id = id;
}

public Date getTimestamp() {
    return timestamp;
}

public void setTimestamp(Date timestamp) {
    this.timestamp = timestamp;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getContext() {
    return context;
}

public void setContext(String context) {
    this.context = context;
}

public String getAccess() {
    return access;
}

public void setAccess(String access) {
    this.access = access;
}
```



```

}
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 */
package org.hibernate.jpamodeling.util;
import javax.persistence.FetchType;
import javax.persistence.ManyToOne;
import javax.persistence.MappedSuperclass;

/**
 * @author Emmanuel Bernard
 */
@MappedSuperclass
public abstract class CopyrightableContent {
    private Author author;

    public CopyrightableContent() {
    }

    public CopyrightableContent(Author author) {
        this.author = author;
    }

    @ManyToOne(fetch = FetchType.LAZY)
    private Author getAuthor() {
        return author;
    }

    private void setAuthor(Author author) {
        this.author = author;
    }
}

```

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```
public class LatestAndGreatestConnectionProviderImplContributor
    implements ServiceContributor {
```

```

@Override
public void contribute(
    standardregistrybuilder registrybuilder) {

    // here we will register a short-name for our service strategy
    strategyselector selector = registrybuilder
        .getbootstrapserviceregistry().
        .getservice( strategyselector.class );

    selector.registerstrategyimplementor(
        connectionprovider.class,
        "lag"
        latestandgreatestconnectionproviderimpl.class
    );
}
}
public class LatestAndGreatestConnectionProviderImplContributor1
    implements ServiceContributor {

    @Override
    public void contribute(StandardServiceRegistryBuilder serviceRegistryBuilder) {
        serviceRegistryBuilder.addService(
            ConnectionProvider.class,
            new LatestAndGreatestConnectionProviderImpl()
        );
    }
}

```

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1.91 jquery-ui-contextmenu 1.10.0

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<https://github.com/mar10/jquery-ui-contextmenu>

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1.92 jsoup 1.7.3

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1.93 jul-to-slf4j 1.8.0-beta2

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />
```

```
<title>SLF4J License</title>
```

```
<link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
```

```
</head>
```

```
<body>
```

```
<script type="text/javascript">prefix=";</script>
```

```
<script src="templates/header.js" type="text/javascript"></script>
```

```
<div id="left">
```

```
<script src="templates/left.js" type="text/javascript"></script>
```

```
</div>
```

```
<div id="right">
```

```
<script src="templates/right.js" type="text/javascript"></script>
</div>
```

```
<div id="content">
```

```
<h1>Licensing terms for SLF4J</h1>
```

```
<p>SLF4J source code and binaries are distributed under the
MIT license.
</p>
```

```
<div class="source">
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```

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```
</div>
```

```
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Foundation as compatible with <a
href="http://www.apache.org/licenses/">Apache Software License</a>.
</p>
```

```
<script src="templates/footer.js" type="text/javascript"></script>
```

```
</div>
```

```
</body>
```

```
</html>
```

1.94 leaflet 1.3.4

1.94.1 Available under license :

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1.95 leaflet.markercluster 1.4.1

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1.96 log4j 2.11.1

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 */
```

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1.103 ng-file-upload 12.2.13

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1.104 ng-fullcalendar 1.7.1

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1.105 ng-sortable 1.2.2

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1.106 ngx-leaflet 5.0.1

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1.107 ngx-leaflet-markercluster 2.0.0

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1.108 ngx-vis 1.0.1

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1.113 pdftmake 0.1.39

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```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes  
at assemblers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

```

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>."
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#-----#
# Create test distribution
#-----#

{
my $dist = DistGen->new(
name => 'Simple::Name',
version => '0.01',
license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',

```

```

    "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
    "META license URL is correct"
);

}

{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
    "META license URL is correct"
);

}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
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the same terms as the Perl 5 programming language system itself.

Terms of the Perl programming language system itself

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    Software Foundation; either version 1, or (at your option) any

```

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b) the "Artistic License"

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```

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1.115 perl-DBD-Informix 2005.02

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1.116 perl-DBI 1.51

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1.117 Postgresql 9.6.12

1.117.1 Available under license :

<!-- doc/src/sgml/legal.sgml -->

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<year>1996-2018</year>

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</legalnotice>

```
diff -c -r bsd_indent/Makefile pg_bsd_indent/Makefile
```

```
*** bsd_indent/Makefile Wed Oct 26 17:13:34 2011
```

```
--- pg_bsd_indent/Makefile Wed Oct 12 12:17:12 2011
```

```
*****
```

```
*** 2,10 ****
```

```
# Makefile
```

```

#
#
! TARGET = indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -g
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
--- 2,10 ----
# Makefile
#
#
! TARGET = pg_bsd_indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -O
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
*****
*** 31,37 ****
clean:
    rm -f *.o $(TARGET) log core

! install:
! make clean
! make CFLAGS=-O
    install -s -o bin -g bin $(TARGET) /usr/local/bin
--- 31,35 ----
clean:
    rm -f *.o $(TARGET) log core

! install: $(TARGET)
    install -s -o bin -g bin $(TARGET) /usr/local/bin
diff -c -r bsd_indent/README pg_bsd_indent/README
*** bsd_indent/README Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/README Mon Nov 14 19:30:24 2005
*****
*** 1,3 ****
--- 1,13 ----
+
+ This patch is from NetBSD current, 2005-11-14. It contains all the
+ patches need for its use in PostgreSQL.
+
+ bjm
+
+ -----
+
+

```

```

+
This is the C indenter, it originally came from the University of Illinois
via some distribution tape for PDP-11 Unix. It has subsequently been
hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs
diff -c -r bsd_indent/args.c pg_bsd_indent/args.c
*** bsd_indent/args.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/args.c Wed Oct 26 17:16:56 2011
*****
*** 83,88 ****
--- 83,90 ----
#include <string.h>
#include "indent_globs.h"

+ #define INDENT_PG_VERSION "1.1"
+
/* profile types */
#define PRO_SPECIAL 1 /* special case */
#define PRO_BOOL 2 /* boolean */
*****
*** 99,106 ****
--- 101,113 ----
#define STDIN 3 /* use stdin */
#define KEY 4 /* type (keyword) */

+ #define KEY_FILE 5 /* only used for args */
+ #define VERSION 6 /* only used for args */
+
char *option_source = "?";

+ void add_typedefs_from_file(char *str);
+
/*
* N.B.: because of the way the table here is scanned, options whose names are
* substrings of other options must occur later; that is, with -lp vs -l, -lp
*****
*** 118,123 ****
--- 125,136 ----
    "T", PRO_SPECIAL, 0, KEY, 0
    },
    {
+   "U", PRO_SPECIAL, 0, KEY_FILE, 0
+   },
+   {
+   "V", PRO_SPECIAL, 0, VERSION, 0
+   },
+   {
    "bacc", PRO_BOOL, false, ON, &blanklines_around_conditional_compilation
    },

```

```

{
*****
*** 425,430 ***
--- 438,456 ----
}
break;

+ case KEY_FILE:
+ if (*param_start == 0)
+ goto need_param;
+ add_typedefs_from_file(param_start);
+ break;
+
+ case VERSION:
+ {
+ printf("pg_bsd_indent %s\n", INDENT_PG_VERSION);
+ exit(0);
+ }
+ break;
+
+ default:
+ fprintf(stderr, "\
indent: set_option: internal error: p_special %d\n", p->p_special);
*****
*** 459,461 ***
--- 485,508 ----
exit(1);
}
}
+
+
+ void
+ add_typedefs_from_file(char *str)
+ {
+ FILE *file;
+ char line[BUFSIZ];
+
+ if ((file = fopen(param_start, "r")) == NULL)
+ {
+ fprintf(stderr, "indent: cannot open file %s\n", str);
+ exit(1);
+ }
+ while ((fgets(line, BUFSIZ, file)) != NULL)
+ {
+ /* Remove trailing whitespace */
+ *(line + strcspn(line, "\t\n\r")) = '\0';
+ addkey(strdup(line), 4);
+ }

```

```

+ fclose(file);
+ }
Only in pg_bsd_indent: args.o
Only in pg_bsd_indent: indent.bsd.patch
Only in pg_bsd_indent: indent.o
diff -c -r bsd_indent/indent_globs.h pg_bsd_indent/indent_globs.h
*** bsd_indent/indent_globs.h Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/indent_globs.h Mon Nov 14 19:30:24 2005
*****
*** 239,245 ****
    scomf, /* Same line comment font */
    bodyf; /* major body font */

! #define STACK_SIZE 150

EXTERN struct parser_state {
    int last_token;
--- 239,249 ----
    scomf, /* Same line comment font */
    bodyf; /* major body font */

! /*
! * This controls the maximum number of 'else if' clauses supported.
! * If it is exceeded, comments are placed in column 100.
! */
! #define STACK_SIZE 1000

EXTERN struct parser_state {
    int last_token;
Only in pg_bsd_indent: io.o
diff -c -r bsd_indent/lexi.c pg_bsd_indent/lexi.c
*** bsd_indent/lexi.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/lexi.c Mon Nov 14 19:30:24 2005
*****
*** 93,99 ****
    int rrcode;
};

! struct templ specials[1000] =
{
    {"switch", 1},
    {"case", 2},
--- 93,99 ----
    int rrcode;
};

! struct templ specials[16384] =
{

```

```

    {"switch", 1},
    {"case", 2},
    *****
    *** 622,629 ****
        else
            p++;
            if (p >= specials + sizeof specials / sizeof specials[0])
! return; /* For now, table overflows are silently
!  * ignored */
            p->rwd = key;
            p->rwcode = val;
            p[1].rwd = 0;
--- 622,632 ----
        else
            p++;
            if (p >= specials + sizeof specials / sizeof specials[0])
! {
! fprintf(stderr, "indent: typedef table overflow\n");
! exit(1);
! }
!
            p->rwd = key;
            p->rwcode = val;
            p[1].rwd = 0;
Only in pg_bsd_indent: lexi.o
diff -c -r bsd_indent/parse.c pg_bsd_indent/parse.c
*** bsd_indent/parse.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/parse.c Mon Nov 14 19:30:24 2005
*****
    *** 231,236 ****
    --- 231,241 ----

    } /* end of switch */

+ if (ps.tos >= STACK_SIZE) {
+     fprintf(stderr, "indent: stack size overflow\n");
+     exit(1);
+ }
+
+     reduce(); /* see if any reduction can be done */

#ifdef debug
Only in pg_bsd_indent: parse.o
diff -c -r bsd_indent/pr_comment.c pg_bsd_indent/pr_comment.c
*** bsd_indent/pr_comment.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/pr_comment.c Mon Nov 14 19:30:24 2005
*****
    *** 148,154 ****

```

```

ps.box_com = true;
ps.com_col = 1;
} else {
! if (*buf_ptr == '-' || *buf_ptr == '*' || *buf_ptr == '\n') {
ps.box_com = true; /* a comment with a '-', '*'
* or newline immediately
* after the start comment is
--- 148,158 ----
ps.box_com = true;
ps.com_col = 1;
} else {
! /*
! * Don't process '\n' or every comment is treated as a
! * block comment, meaning there is no wrapping.
! */
! if (*buf_ptr == '-' || *buf_ptr == '*') {
ps.box_com = true; /* a comment with a '-', '*'
* or newline immediately
* after the start comment is
*****
*** 328,333 ***
--- 332,350 ----
goto end_of_comment;
}
} while (*buf_ptr == ' ' || *buf_ptr == '\t');
+
+ /*
+ * If there is a blank comment line, we need to prefix
+ * the line with the same three spaces that "/* " takes up.
+ * Without this code, blank stard lines in comments have
+ * three too-many characters on the line when wrapped.
+ */
+ if (s_com == e_com) {
+ *e_com++ = ' '; /* add blanks for continuation */
+ *e_com++ = ' ';
+ *e_com++ = ' ';
+ now_col += 3;
+ }
+ } else
+ if (++buf_ptr >= buf_end)
+ fill_buffer();

```

Only in pg_bsd_indent: pr_comment.o

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<HTML
><HEAD
><META
NAME="GENERATOR"
CONTENT="Modular DocBook HTML Stylesheet Version 1.79"><LINK
REV="MADE"
HREF="mailto:pgsql-docs@postgresql.org"><LINK
REL="HOME"
TITLE="PostgreSQL 9.6.12 Documentation"
HREF="index.html"><LINK
REL="NEXT"
TITLE="Preface"
HREF="preface.html"><LINK
REL="STYLESHEET"
TYPE="text/css"
HREF="stylesheet.css"><META
```

```

HTTP-EQUIV="Content-Type"
CONTENT="text/html; charset=ISO-8859-1"><META
NAME="creation"
CONTENT="2019-02-11T21:31:11"></HEAD
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><DIV
CLASS="NAVHEADER"
><TABLE
SUMMARY="Header navigation table"
WIDTH="100% "
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CELLPADDING="0"
CELLSPACING="0"
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><TH
COLSPAN="4"
ALIGN="center"
VALIGN="bottom"
><A
HREF="index.html"
>PostgreSQL 9.6.12 Documentation</A
></TH
></TR
></TABLE
><HR
ALIGN="LEFT"
WIDTH="100%"></DIV
><DIV
CLASS="LEGALNOTICE"
><A
NAME="LEGALNOTICE"
></A
><P
><B
>Legal Notice</B
></P
><P
> <SPAN
CLASS="PRODUCTNAME"
>PostgreSQL</SPAN
> is Copyright &copy; 1996-2019
by the PostgreSQL Global Development Group.
</P
><P
> <SPAN
CLASS="PRODUCTNAME"
>Postgres95</SPAN
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</P

></DIV

><DIV

CLASS="NAVFOOTER"

><HR

ALIGN="LEFT"

WIDTH="100%"><TABLE

SUMMARY="Footer navigation table"

WIDTH="100%"

BORDER="0"

CELLPADDING="0"

CELLSPACING="0"

><TR

><TD

WIDTH="33%"

ALIGN="left"

VALIGN="top"

> </TD

><TD

WIDTH="34%"

ALIGN="center"

VALIGN="top"

```

><A
  HREF="index.html"
  ACCESSKEY="H"
>Home</A
></TD
><TD
  WIDTH="33%"
  ALIGN="right"
  VALIGN="top"
>&nbsp;</TD
></TR
></TABLE
></DIV
></BODY
></HTML
>
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"http://www.w3.org/TR/html4/loose.dtd">
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><HEAD
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>Notice Processing</TITLE
><META
NAME="GENERATOR"
CONTENT="Modular DocBook HTML Stylesheet Version 1.79"><LINK
REV="MADE"
HREF="mailto:pgsql-docs@postgresql.org"><LINK
REL="HOME"
TITLE="PostgreSQL 9.6.12 Documentation"
HREF="index.html"><LINK
REL="UP"
TITLE="libpq - C Library"
HREF="libpq.html"><LINK
REL="PREVIOUS"
TITLE="Miscellaneous Functions"
HREF="libpq-misc.html"><LINK
REL="NEXT"
TITLE="Event System"
HREF="libpq-events.html"><LINK
REL="STYLESHEET"
TYPE="text/css"
HREF="stylesheet.css"><META
HTTP-EQUIV="Content-Type"
CONTENT="text/html; charset=ISO-8859-1"><META
NAME="creation"
CONTENT="2019-02-11T21:31:11"></HEAD
><BODY
CLASS="SECT1"

```

```

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CELLSPACING="0"
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VALIGN="bottom"
<<A
HREF="index.html"
>PostgreSQL 9.6.12 Documentation</A
<</TH
<</TR
<<TR
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VALIGN="top"
<<A
TITLE="Miscellaneous Functions"
HREF="libpq-misc.html"
ACCESSKEY="P"
>Prev</A
<</TD
<<TD
WIDTH="10%"
ALIGN="left"
VALIGN="top"
<<A
HREF="libpq.html"
ACCESSKEY="U"
>Up</A
<</TD
<<TD
WIDTH="60%"
ALIGN="center"
VALIGN="bottom"
>Chapter 32. <SPAN
CLASS="APPLICATION"
>libpq</SPAN
> - C Library</TD
<</TD
WIDTH="20%"

```

```

ALIGN="right"
VALIGN="top"
><A
TITLE="Event System"
HREF="libpq-events.html"
ACCESSKEY="N"
>Next</A
></TD
></TR
></TABLE
><HR
ALIGN="LEFT"
WIDTH="100%"></DIV
><DIV
CLASS="SECT1"
><H1
CLASS="SECT1"
><A
NAME="LIBPQ-NOTICE-PROCESSING"
>32.12. Notice Processing</A
></H1
><P
> Notice and warning messages generated by the server are not returned
by the query execution functions, since they do not imply failure of
the query. Instead they are passed to a notice handling function, and
execution continues normally after the handler returns. The default
notice handling function prints the message on
<TT
CLASS="FILENAME"
>stderr</TT
>, but the application can override this
behavior by supplying its own handling function.
</P
><P
> For historical reasons, there are two levels of notice handling, called
the notice receiver and notice processor. The default behavior is for
the notice receiver to format the notice and pass a string to the notice
processor for printing. However, an application that chooses to provide
its own notice receiver will typically ignore the notice processor
layer and just do all the work in the notice receiver.
</P
><P
> The function <CODE
CLASS="FUNCTION"
>PQsetNoticeReceiver</CODE
>

```

sets or

examines the current notice receiver for a connection object.

Similarly, <CODE

```
CLASS="FUNCTION"
```

```
>PQsetNoticeProcessor</CODE
```

```
>
```

sets or

examines the current notice processor.

```
</P><PRE
```

```
CLASS="SYNOPSIS"
```

```
>typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);
```

```
PQnoticeReceiver
```

```
PQsetNoticeReceiver(PGconn *conn,
```

```
    PQnoticeReceiver proc,
```

```
    void *arg);
```

```
typedef void (*PQnoticeProcessor) (void *arg, const char *message);
```

```
PQnoticeProcessor
```

```
PQsetNoticeProcessor(PGconn *conn,
```

```
    PQnoticeProcessor proc,
```

```
    void *arg);</PRE
```

```
><P>
```

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

```
</P
```

```
><P
```

> When a notice or warning message is received from the server, or generated internally by <SPAN

```
CLASS="APPLICATION"
```

```
>libpq</SPAN
```

```
>, the notice
```

receiver function is called. It is passed the message in the form of

a <TT

```
CLASS="SYMBOL"
```

```
>PGRES_NONFATAL_ERROR</TT
```

```
>
```

```
<TT
```

```
CLASS="STRUCTNAME"
```

```
>PGresult</TT
```

>. (This allows the receiver to extract

individual fields using <CODE

```
CLASS="FUNCTION"
```

```

>PQresultErrorField</CODE
>, or obtain a
  complete preformatted message using <CODE
CLASS="FUNCTION"
>PQresultErrorMessage</CODE
>
  or <CODE
CLASS="FUNCTION"
>PQresultVerboseErrorMessage</CODE
>.) The same
  void pointer passed to <CODE
CLASS="FUNCTION"
>PQsetNoticeReceiver</CODE
> is also
  passed. (This pointer can be used to access application-specific state
  if needed.)
</P
><P
> The default notice receiver simply extracts the message (using
  <CODE
CLASS="FUNCTION"
>PQresultErrorMessage</CODE
>) and passes it to the notice
  processor.
</P
><P
> The notice processor is responsible for handling a notice or warning
  message given in text form. It is passed the string text of the message
  (including a trailing newline), plus a void pointer that is the same
  one passed to <CODE
CLASS="FUNCTION"
>PQsetNoticeProcessor</CODE
>. (This pointer
  can be used to access application-specific state if needed.)
</P
><P
> The default notice processor is simply:
</P><PRE
CLASS="PROGRAMLISTING"
>static void
defaultNoticeProcessor(void *arg, const char *message)
{
  fprintf(stderr, "%s", message);
}</PRE
><P>
</P
><P
> Once you have set a notice receiver or processor, you should expect

```


that that function could be called as long as either the

```
<TT
CLASS="STRUCTNAME"
>PGconn</TT
> object or <TT
CLASS="STRUCTNAME"
>PGresult</TT
> objects made
    from it exist. At creation of a <TT
CLASS="STRUCTNAME"
>PGresult</TT
>, the
    <TT
CLASS="STRUCTNAME"
>PGconn</TT
>'s current notice handling pointers are copied
    into the <TT
CLASS="STRUCTNAME"
>PGresult</TT
> for possible use by functions like
    <CODE
CLASS="FUNCTION"
>PQgetvalue</CODE
>.
    </P
></DIV
><DIV
CLASS="NAVFOOTER"
><HR
ALIGN="LEFT"
WIDTH="100%"><TABLE
SUMMARY="Footer navigation table"
WIDTH="100%"
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CELLSPACING="0"
><TR
><TD
WIDTH="33%"
ALIGN="left"
VALIGN="top"
><A
HREF="libpq-misc.html"
ACCESSKEY="P"
>Prev</A
></TD
><TD
WIDTH="34%"
```

```

ALIGN="center"
VALIGN="top"
><A
  HREF="index.html"
  ACCESSKEY="H"
  >Home</A
</TD
<TD
  WIDTH="33%"
  ALIGN="right"
  VALIGN="top"
  ><A
    HREF="libpq-events.html"
    ACCESSKEY="N"
    >Next</A
  </TD
</TR
<TR
<TD
  WIDTH="33%"
  ALIGN="left"
  VALIGN="top"
  >Miscellaneous Functions</TD
<TD
  WIDTH="34%"
  ALIGN="center"
  VALIGN="top"
  ><A
    HREF="libpq.html"
    ACCESSKEY="U"
    >Up</A
  </TD
<TD
  WIDTH="33%"
  ALIGN="right"
  VALIGN="top"
  >Event System</TD
</TR
</TABLE
</DIV
</BODY
</HTML
>
<!-- doc/src/sgml/legal.sgml -->

<date>2019</date>

<copyright>

```

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1.118 postgresql-jdbc 9.4-1208

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1.119 powermock-api-mockito-common 1.7.3

1.120 powermock-api-mockito2 1.7.3

1.121 powermock-api-support 1.7.3

1.122 powermock-core 1.7.3

1.123 powermock-module-testng 1.7.3

**1.124 powermock-module-testng-common
1.7.3**

1.125 powermock-reflect 1.7.3

1.126 python 2.7.8

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.. highlightlang:: none

.. _history-and-license:

History and License

History of the software

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl/>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <http://www.zope.com/>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes	
2.2 and above	2.1.1	2001-now	PSF	yes	

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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

- 2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
- 1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
- 1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
- 1999-05-03 lpd Original version.

Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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Select kqueue

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.2	2.1.1	2002	PSF	yes
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1.129 setup_random.ksh unknown

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1.130 slf4j 1.7.7

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1.131 soci 3.2.3

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1.132 sortablejs 1.7.0

1.133 Spring Framework 5.1.3

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*/

package org.springframework.test.context.junit4.orm.domain;

/**

* DriversLicense POJO.

*

* @author Sam Brannen

* @since 3.0

*/

public class DriversLicense {

private Long id;

private Long number;

```

public DriversLicense() {
}

public DriversLicense(Long number) {
    this(null, number);
}

public DriversLicense(Long id, Long number) {
    this.id = id;
    this.number = number;
}

```

```

public Long getId() {
    return this.id;
}

```

```

protected void setId(Long id) {
    this.id = id;
}

```

```

public Long getNumber() {
    return this.number;
}

```

```

public void setNumber(Long number) {
    this.number = number;
}

```

```

}

```

```

<?xml version="1.0" encoding="UTF-8"?>

```

```

<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD//EN"
"http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">

```

```

<hibernate-mapping auto-import="true" default-lazy="false">

```

```

<class name="org.springframework.test.context.junit4.orm.domain.DriversLicense" table="drivers_license">
<id name="id" column="id">
<generator class="identity" />
</id>
<property name="number" column="license_number" />
</class>

```

```

</hibernate-mapping>

```

```

/*

```

```

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```

```

*

```

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*/
```

```
package org.springframework.orm.jpa.domain;
```

```
import javax.persistence.Entity;
import javax.persistence.Id;
import javax.persistence.Table;
```

```
@Entity
@Table(name="DRIVERS_LICENSE")
public class DriversLicense {
```

```
    @Id
    private int id;
```

```
    private String serial_number;
```

```
    protected DriversLicense() {
    }
```

```
    public DriversLicense(String serialNumber) {
        this.serial_number = serialNumber;
    }
```

```
    public String getSerialNumber() {
        return serial_number;
    }
```

```
}
```

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*/

package org.springframework.security.acls.model;

import java.io.Serializable;

/**

* Represents a permission granted to a <tt>Sid</tt> for a given domain object.

*

```

* @author Ben Alex
*/
public interface Permission extends Serializable {
    // ~ Static fields/initializers
    //
    =====
    ===

    char RESERVED_ON = '~';
    char RESERVED_OFF = '!';
    String THIRTY_TWO_RESERVED_OFF = ".....";

    // ~ Methods
    //
    =====
    =====

    /**
     * Returns the bits that represents the permission.
     *
     * @return the bits that represent the permission
     */
    int getMask();

    /**
     * Returns a 32-character long bit pattern <code>String</code> representing this
     * permission.
     * <p>
     * Implementations are free to format the pattern as they see fit, although under no
     * circumstances may { @link #RESERVED_OFF} or { @link #RESERVED_ON} be used within the
     * pattern. An exemption is in the case of { @link #RESERVED_OFF} which is used to
     * denote a bit that is off (clear). Implementations may also elect to use
     * { @link #RESERVED_ON} internally for computation purposes, although this method may
     * not return any <code>String</code> containing { @link #RESERVED_ON}.
     * <p>
     * The returned String must be 32 characters in length.
     * <p>
     * This method is only used for user interface and logging purposes. It is not used in
     * any permission calculations. Therefore, duplication of characters within the output
     * is permitted.
     *
     * @return a 32-character bit pattern
     */
    String getPattern();
}

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1.136 springfox 2.2.2

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- web-app_3_0.xsd
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
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1.141 velocity 1.7

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1.147 zlib 1.2.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

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1.148 zone.js 0.8.26

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