



Web Frontend Development 2015

State of the Art mit
JavaScript, REST, Node & Grunt

OIO - Hauskonferenz 2014

Orientation in Objects GmbH

Weinheimer Str. 68
68309 Mannheim

www.oio.de
info@oio.de

Thomas Bayer

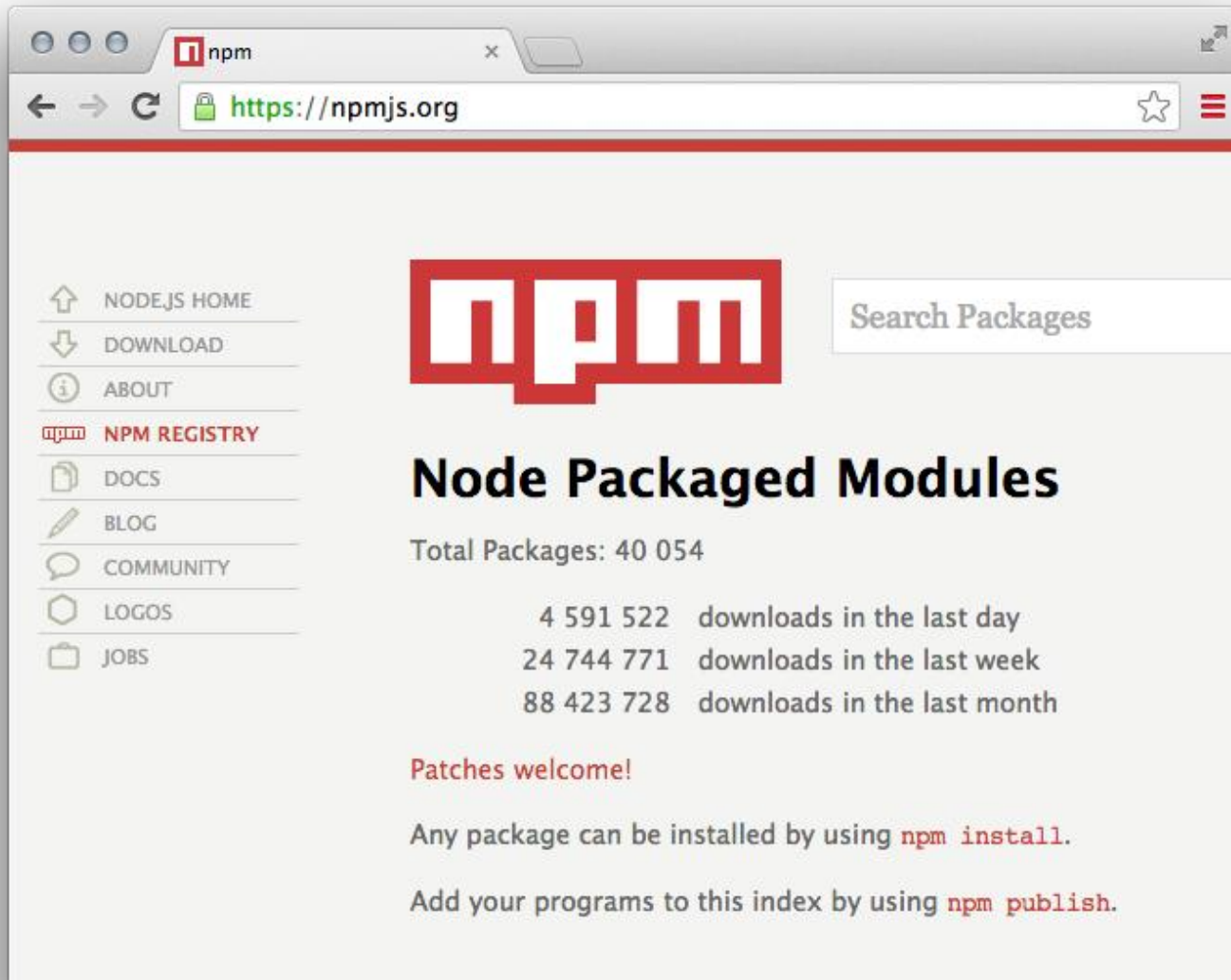
Programmierer, Berater, Trainer

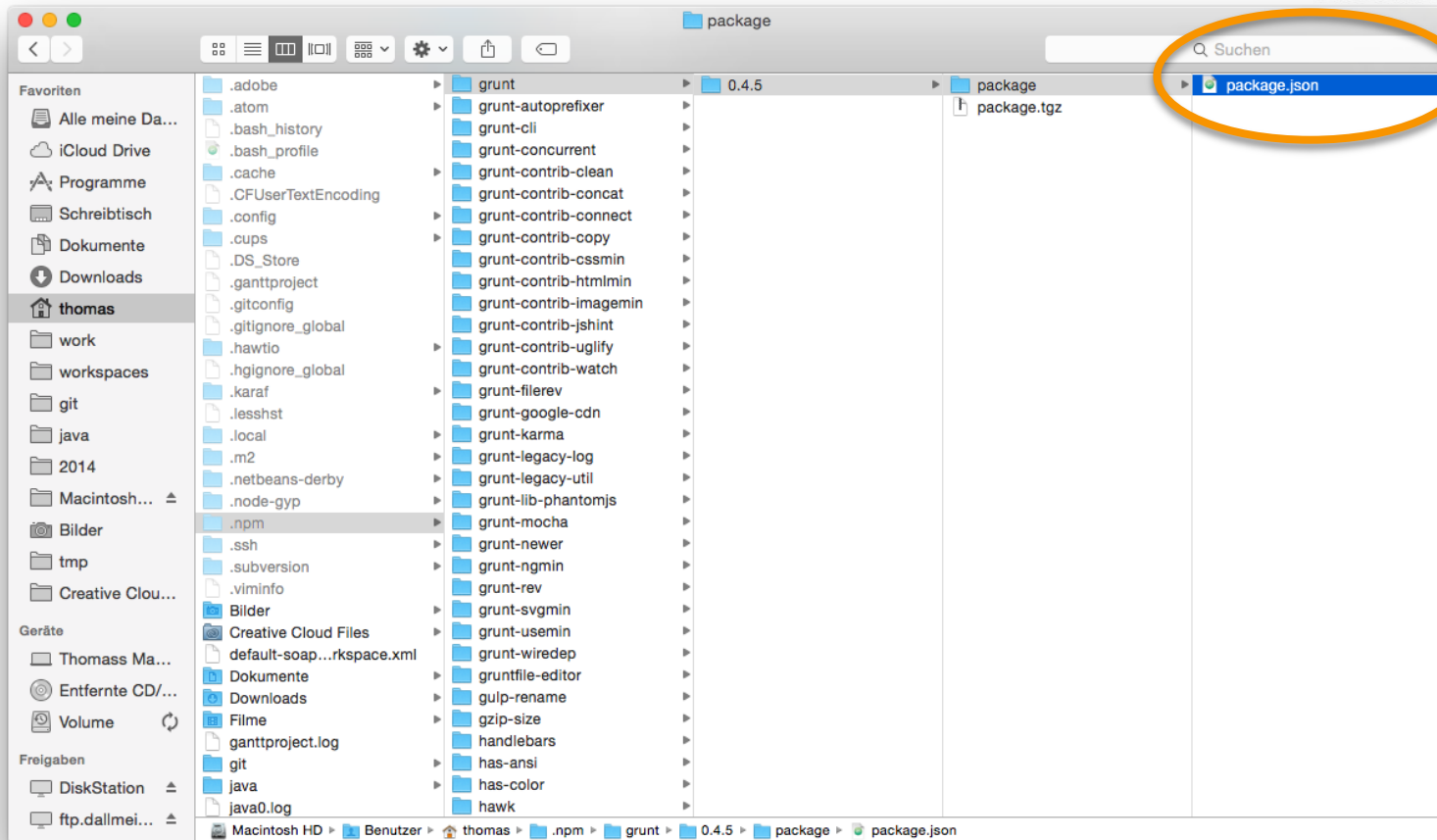


Interessen
Integration
REST/SOA
JavaScript
Groovy/Grails
Mobile
Swift

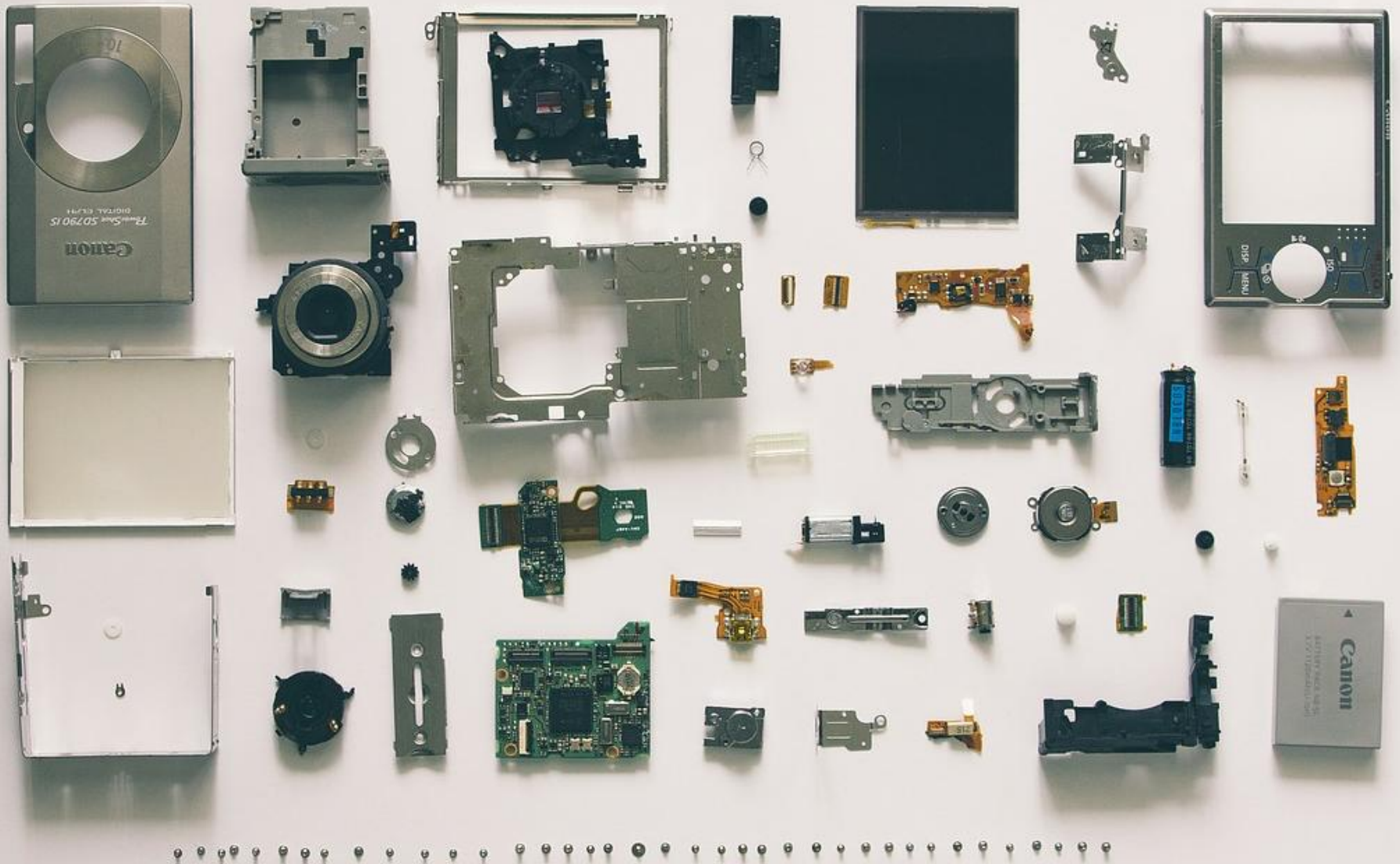


```
(function() {  
  var a = [];  
  for (var i = 0; i < 1000000; i++) {  
    a.push(i);  
  }  
}) ();
```





`npm update -g npm`



grunt





Plugins

This plugin listing is automatically generated from the npm module database. Officially maintained "contrib" plugins are marked with a star ★ icon.

In order for a Grunt plugin to be listed here, it must be published on npm with the [gruntplugin](#) keyword. Additionally, we recommend that you use the [gruntplugin grunt-init template](#) when creating a Grunt plugin.

Showing 1 to 100 of 200 entries (filtered from 3,638 total entries)

Ads by [Bocoup](#).

Search:

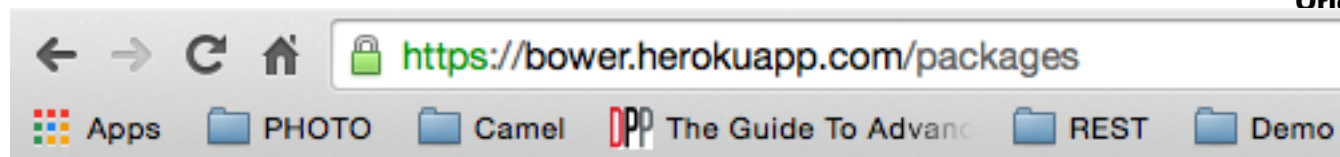
← 1 2 →

| Plugin | Updated | Grunt Version | Downloads <small>last 30 days</small> |
|--|-------------------|---------------|--|
| karma by Dave Geddes grunt plugin for karma test runner | 2 months ago | 0.4.x | 231402 |
| mocha-test by Peter Halliday A grunt task for running server side mocha tests | about a month ago | | 93248 |
| ★ contrib-nodeunit by Grunt Team Run Nodeunit unit tests. | 5 months ago | ~0.4.0 | 47836 |
| ★ contrib-qunit by Grunt Team Run QUnit unit tests in a headless PhantomJS instance. | 4 months ago | ~0.4.0 | 41374 |
| simple-mocha by Mukund Lakshman A simple wrapper for running tests with Mocha. | 2 years ago | | 19801 |

Grunt Tasks

- concat
- lint
- min
- Test
- server

- Verwaltung von Frontend Components
 - JavaScript, CSS, HTML, Fonts, PNG, JPG
- Ist kein Skript oder Modul Loader



```
  hits: 5
},
- {
  name: "angular-ui-tree",
  url: "git://github.com/JimLiu/angular-ui-tree.git",
  hits: 41191
},
- {
  name: "angular-ui-tree-filter",
  url: "git://github.com/EE/angular-ui-tree-filter.git",
  hits: 1264
},
- {
  name: "angular-ui-utils",
  url: "git://github.com/angular-ui/ui-utils.git",
  hits: 579560
},
}
```



Search Bower packages

Fork me on GitHub

e.g. 'package-name', OR 'keyword', OR 'keyword owner:jquery'

| Name | Owner | Stars | Updated |
|---|----------|-------|--------------|
| bootstrap The most popular HTML, CSS, and JavaScript framework for developing responsive, mobile first projects on the web. | twbs | 74010 | 12 hours ago |
| jquery jQuery JavaScript Library | jquery | 32384 | 44 hours ago |
| d3 A JavaScript visualization library for HTML and SVG. | mbostock | 31273 | 44 hours ago |

cdnjs Add a library About

community Discussion Chat Login Register

| Library | Link |
|------------------------------------|---|
| underscore.js | //cdnjs.cloudflare.com/ajax/libs/underscore.js/1.7.0/underscore-min.js |
| underscore.string | //cdnjs.cloudflare.com/ajax/libs/underscore.string/2.3.3/underscore.string.min.js |
| underscore-contrib | //cdnjs.cloudflare.com/ajax/libs/underscore-contrib/0.3.0/underscore-contrib.min.js |

bower.json

```
{
  "name": "jquery",
  "version": "2.1.1",
  "main": "dist/jquery.js",
  "license": "MIT",
  "ignore": [
    "**/*.*",
    "build",
    "speed",
    "test",
    "*.md",
    "AUTHORS.txt",
    "Gruntfile.js",
    "package.json"
  ],
  "devDependencies": {
    "sizzle": "1.10.19",
    "requirejs": "2.1.10",
    "qunit": "1.14.0",
    "sinon": "1.8.1"
  },
  "keywords": [
    "jquery",
    "javascript",
    "library"
  ]
}
```


Boilerplate





GENERATORS



Your generator must have the "yeoman-generator" keyword and a repo description to be listed. Official generators are marked with

| Name | Description | Author | Stars |
|-----------------------------------|---|--|-------|
| angular | AngularJS | The Yeoman Team | 2732 |
| angular-fullstack | AngularJS with an Express server | Tyler Henkel | 2146 |
| jhipster | Hipster stack for Java developers. Yeoman + Maven + Spring + AngularJS in one handy generator | Julien Dubois | 1053 |
| mobile | Mobile-first web apps | Chrome Developer Relations | 811 |
| gulp-webapp | A gulp.js generator for modern webapps | The Yeoman Team | 773 |
| wordpress | WordPress | Wes Todd | 700 |
| webapp | Yeoman generator that scaffolds out a front-end web app | The Yeoman Team | 657 |
| ionic | Build hybrid mobile apps using the Ionic Framework | Diego Netto | 537 |



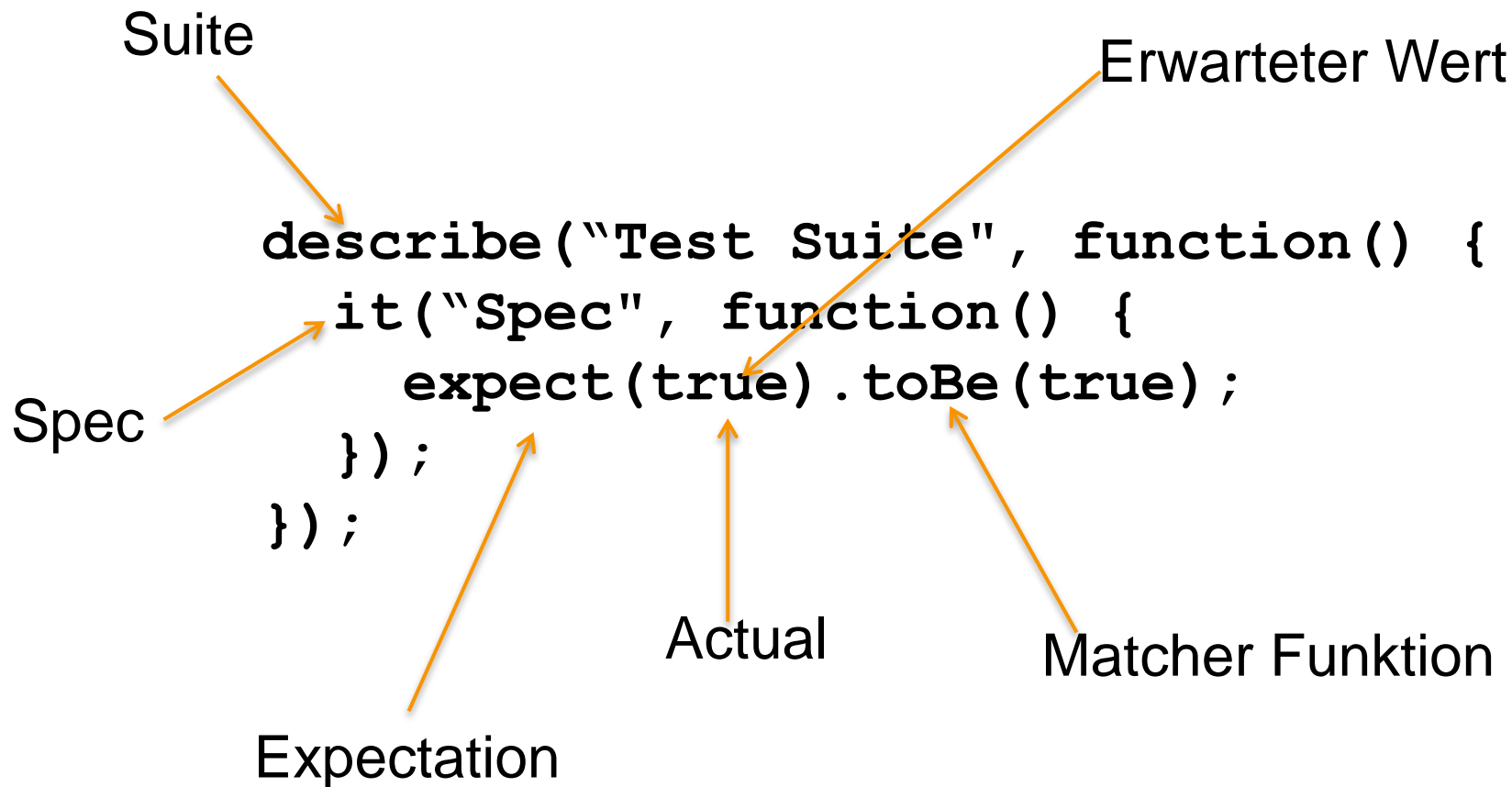
lint

Test

- Läuft im Browser und in Node
- On Top of Node.js
- Commandline Runner
- Testen von asynchronen Funktionen
- Austauschbare Assertion Bibliotheken
- Highlight:
 - Führt Tests nach Änderung einer .js Datei automatisch durch (mocha – w)

- should.js
- expect.js
- Chai
 - Assertion-Lib „Ecosystem“
 - Plugins

- Test Umgebung
- Verwendet
 - Mocha
 - Jasmine
- Crossbrowser, E2E Tests



```
spyOn(foo, "getBar").and.callFake(function() {  
    return 1001;  
});
```

```
expect( myFunction ).toThrow();
```



all plugins

- array
- assertion
- async
- change
- colors
- date
- dom
- fs
- guard
- http
- integration
- math
- mocks and spies
- object constructors
- objects

Chai Spies

Function spies and assertions.

Chai HTTP

HTTP request/response assertions.

Sinon-Chai

Extend Chai with assertions for the Sinon.JS framework.

Chai as Promised

Extends Chai with assertions about promises.

Chai jQuery

Extend Chai with assertions for the DOM and jQuery.

Chai jQ

Alternate DOM assertion library.

Chai Timers

Timers, stopwatches, and other time-based assertions.

Chai Stats

Statistical and additional numerical assertions.

Chai Null

Null Object Pattern implementation.



```
expect (answer) .to.equal (42) ;
```

```
price.should.be.a('number');
```

```
price.should.equal(1.99);
```

```
name.should.have.length(7);
```




Auslieferung



Fragen ?

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Vielen Dank für ihre Aufmerksamkeit !

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