

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);
    }
})();
```

The screenshot shows the npmjs.org homepage as it would appear in a web browser. The URL in the address bar is <https://npmjs.org>. The page features a large red "npm" logo at the top center. To the right of the logo is a search bar with the placeholder text "Search Packages". On the left side, there is a vertical navigation menu with the following items:

- NODEJS HOME
- DOWNLOAD
- ABOUT
- NPM REGISTRY** (this item is highlighted in red)
- DOCS
- BLOG
- COMMUNITY
- LOGOS
- JOBSP

The main content area contains the following text and statistics:

Node Packaged Modules

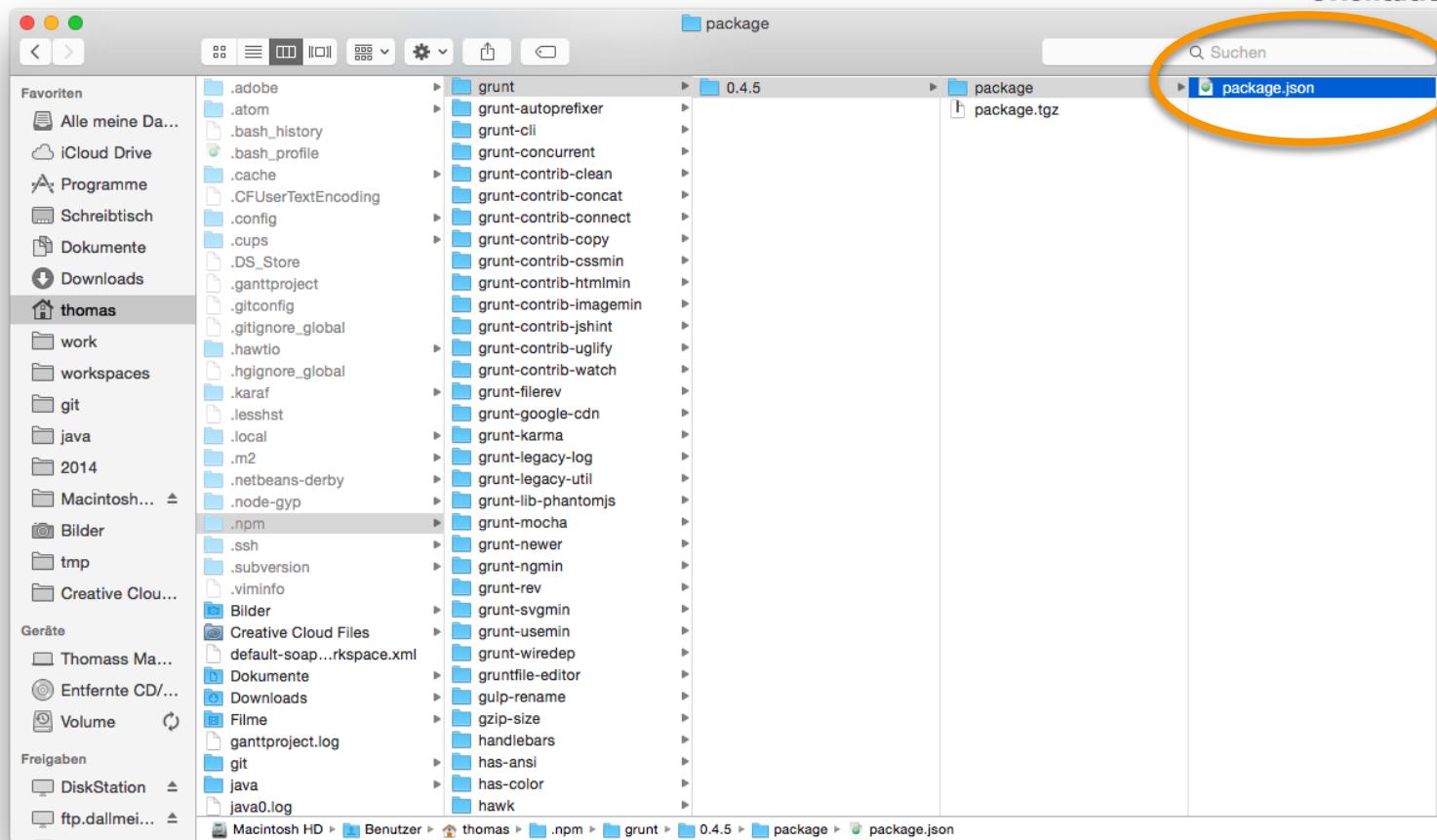
Total Packages: 40 054

4 591 522 downloads in the last day
24 744 771 downloads in the last week
88 423 728 downloads in the last month

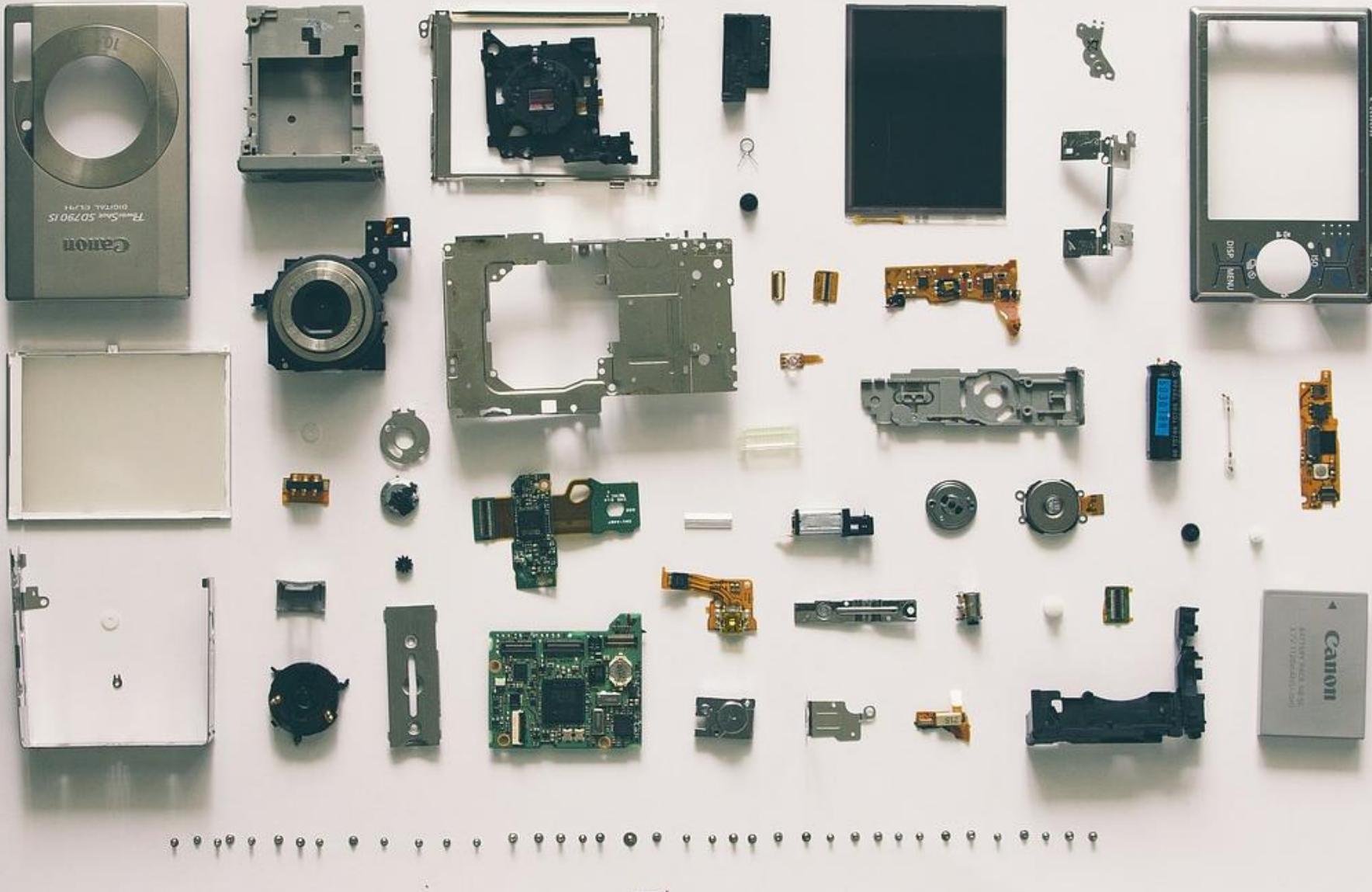
Patches welcome!

Any package can be installed by using `npm install`.

Add your programs to this index by using `npm publish`.



npm update -g npm



grunt



io
rientation in Objects

← → C ⌘ ⌘ gruntjs.com/plugins

Apps PHOTO Camel The Guide To Advanced REST Demo Business Prozesse https://mein.1und1.de > Andere Leser

Getting Started Plugins Documentation API Objects



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 →

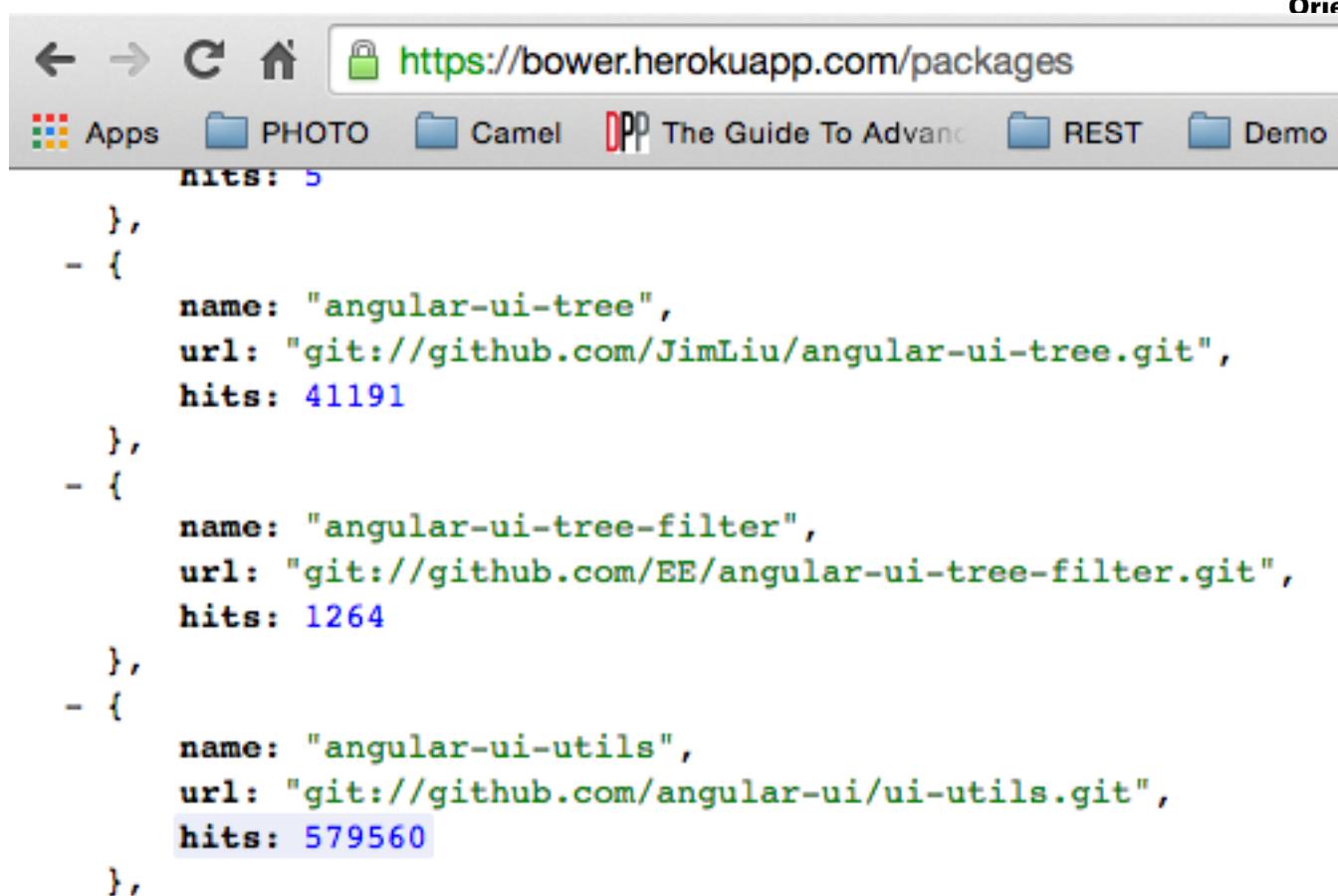
Plugin	Updated	Grunt Version	Downloads last 30 days
karma by Dave Geddes grunt plugin for karma test runner	2 months ago	0.4.x	231402
mocha-test by Peter Halliday A grunt task for running server side mocha tests	about a month ago		93248
★ contrib-nodeunit by Grunt Team Run Nodeunit unit tests.	5 months 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



https://bower.herokuapp.com/packages

```
[{"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

underscore

Library Link

[underscore.js](https://cdnjs.cloudflare.com/ajax/libs/underscore.js/1.7.0/underscore-min.js) //cdnjs.cloudflare.com/ajax/libs/underscore.js/1.7.0/underscore-min.js

[underscore.string](https://cdnjs.cloudflare.com/ajax/libs/underscore.string/2.3.3/underscore.string.min.js) //cdnjs.cloudflare.com/ajax/libs/underscore.string/2.3.3/underscore.string.min.js

[underscore-contrib](https://cdnjs.cloudflare.com/ajax/libs/underscore-contrib/0.3.0/underscore-contrib.min.js) //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": [  
    "**/*.js",  
    "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





yeoman.io/generators/   ABP 

Apps PHOTO Camel The Guide To Advan REST Business Prozesse » Andere Lesezeichen

 YEOMAN Using Yeoman Discovering generators Creating a generator Blog Contributing

GENERATORS



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

Search in 1161 generators...

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

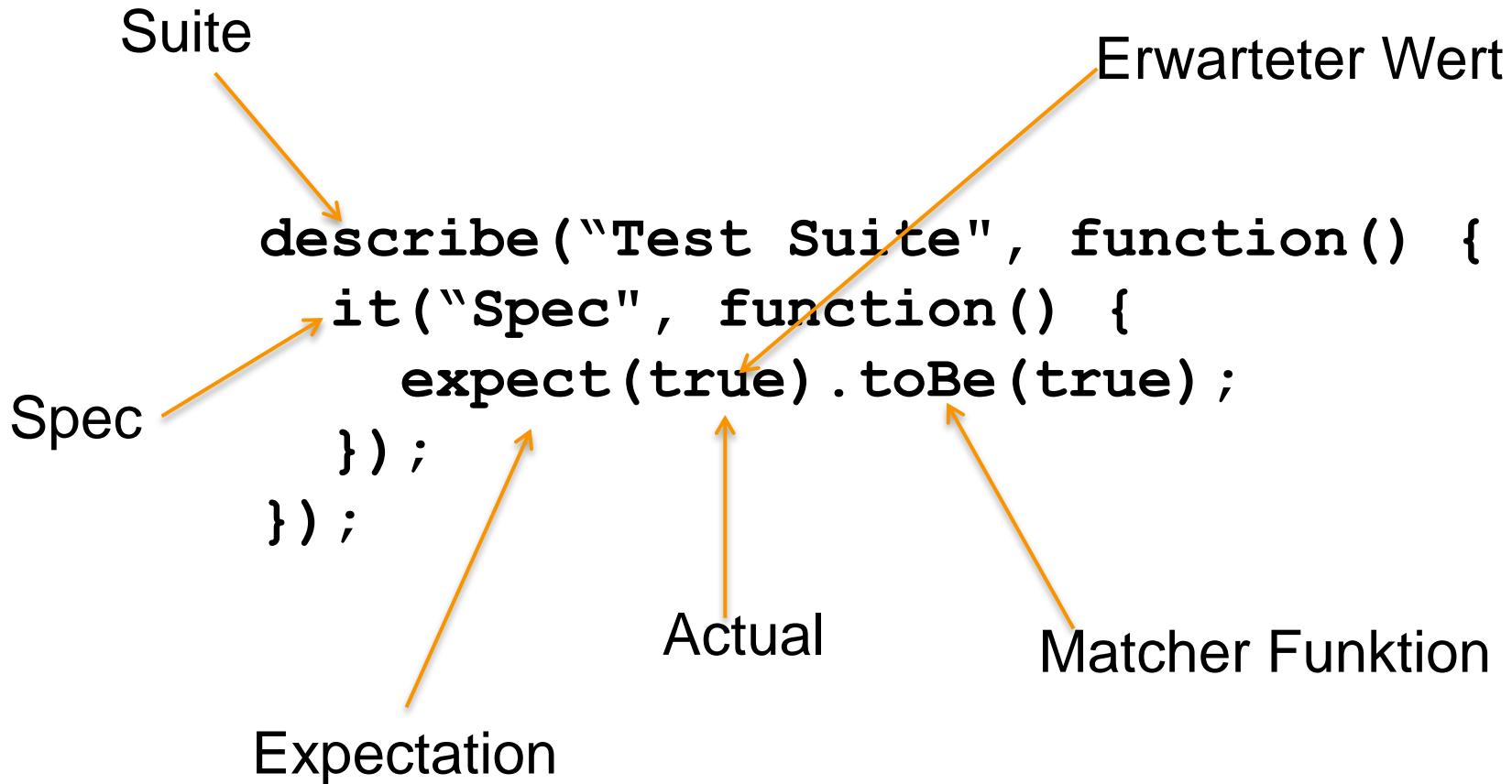
- Läuft im Browser und in Node
- On Top of Node.js
- Commandline Runner
- Testen von asynchronen Funktionen
- Austauschbare Assertion Bibliotheken
- Highlight:
 - Führt Tests nach Änderung einer .js Datei automatisch durch (mocha – w)

Assertion Libraries



- 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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Weinheimer Str. 68
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www.oio.de
info@oio.de

**Vielen Dank für ihre
Aufmerksamkeit !**

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