TypeScript 88 Grails







Spine











Geddy.js

RailWayJS

Locomotive

Flatiron.js

Express

Tower.js

Derby

Meteor

Socket 10

SocketStream





TypeScript is

- Language for application-scale JavaScript development
- Typed superset of JavaScript that compiles to plain JavaScript
- Any browser. Any host. Any OS. Open Source.
- Strong Tools for Large Applications
- Scalable
- ES6 based

TypeScript has

Clear JS

```
function Greeter(greeting) {
    this.greeting = greeting;
}
Greeter.prototype.greet = function () {
    return "Hello," + this.greeting;
};
var greeter = new Greeter("world");
```

Types

```
function Greeter(greeting: string) {
    this.greeting = greeting;
}
var greeter = new Greeter("world");
```

Types

```
function Greeter(greeting: string) {
    this.greeting = greeting;
}
var greeter = new Greeter("world"); // ok
var bad = new Greeter(5); // bad
```

More Types

- Numbers
- ♣ Boolean
- Null
- Undefined
- Object
- Void
- Any

Classes

```
class Greeter {
  greeting: string;
  constructor(message: string) {
     this.greeting = message;
  greet() {
     return "Hello," + this.greeting;
var greeter = new Greeter("world");
```

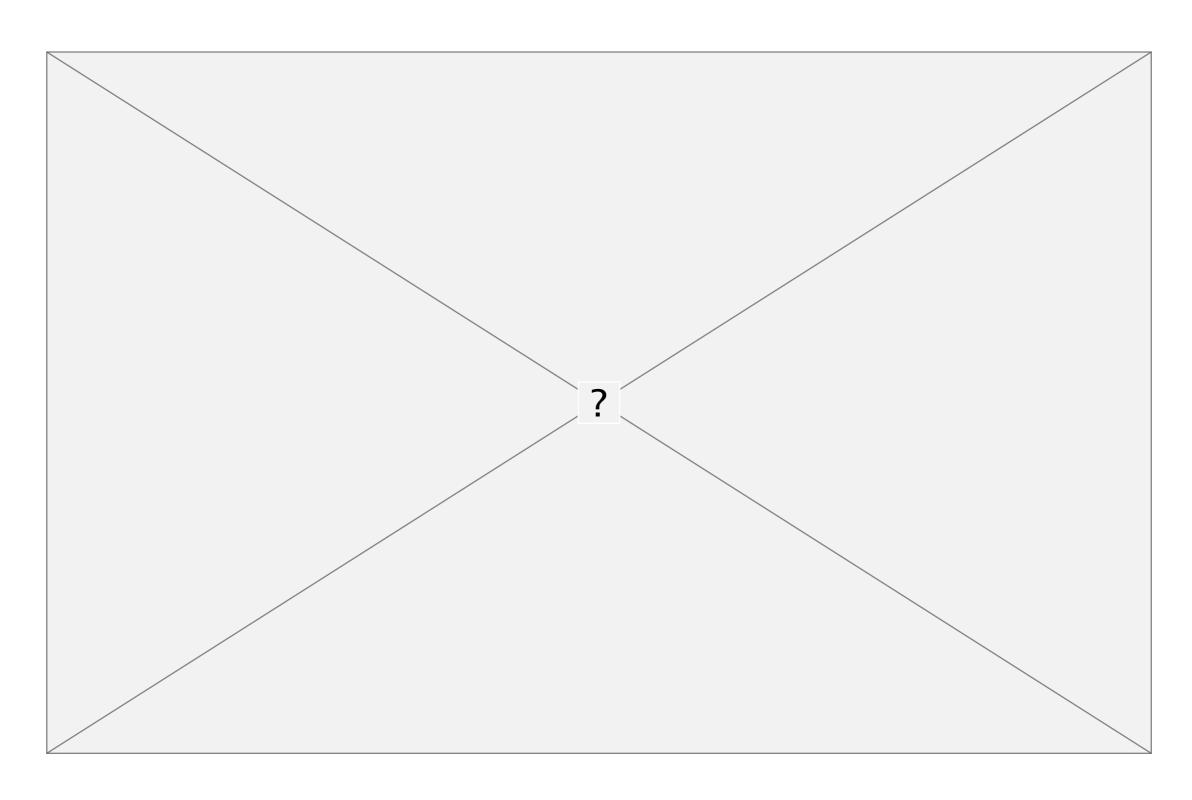
Inheritance

```
class Animal {
  constructor(public name: string) { }
  move(meters: number) {
     alert(this.name + " moved " + meters + "m.");
class Snake extends Animal {
  constructor(name: string) { super(name); }
  move() {
     alert("Slithering...");
     super.move(5);
var sam = new Snake("Sammy the Python");
sam.move();
```

Modules

```
module Sayings {
  export class Greeter {
     greeting: string;
     constructor(message: string) {
        this.greeting = message;
     greet() {
        return "Hello," + this.greeting;
var greeter = new Sayings.Greeter("world");
```

Interface







Install Node.js on Ubuntu

- ##Install the dependencies:
- \$ sudo apt-get install g++ curl libssl-dev apache2-utils
- \$ sudo apt-get install git-core
- ##Run the following commands:
- \$ git clone git://github.com/ry/node.git
- \$ cd node
- \$./configure
- \$ make && sudo make install
- ##Check node:
- \$ node -v

Install Node.js on Mac

```
if (homebrew) {
  brew upgrade
  brew install node
  node -v
} else {
  https://github.com/mxcl/homebrew/wiki/installation
}
```

Install Node.js on Windows

http://nodejs.org/#download

Install NPM

##Ubuntu:

\$ curl http://npmjs.org/install.sh | sh

##Mac

- \$ brew upgrade
- \$ brew install npm

##Windows:

\$ http://npmjs.org/doc/README.html#Installing-on-Windows-Experimental

Install TypeScript

```
##Ubuntu && ##Mac && ##Win
$ npm install -g typescript
$ ts -v
```











Grails integration

- Manual with console (\$ ts path/to/your/ts/file)
- IDE compilation
- TypeScript Resource plugin

Resource plugin

TypeScript resource plugin

Tags : javascript, resources, typescript & Latest : 0.4.1 Last Updated: 03 Апрель 2013 Grails version : 2.0 > *

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Dependency:

compile ":typescript:0.4.1"

Documentation

Source

Issues

Summary

Helps you manage typescript code in your Grails application.

Installation

grails install-plugin typescript

6 votes

Configure:

Open /grails-app/conf/BuildConfig.groovy. In plugins hash after runtime ":resources:1.1.6" add

```
runtime ":typescript:0.3.9"
```

And start your application:

```
grails run-app
```

Using:

Open /grails-app/conf/ApplicationResources.groovy. Put this lines in to it:

```
modules = {
    application {
        resource url:'js/application.js'
        resource url:'js/app.ts', attrs: [type:'js']
        resource url:'js/main.ts', attrs: [type:'js']
    }
}
```

After go to your web-app/js folder and create app.ts and main.ts

Questions???

Thanks for your attention!