



Angular für Java Entwickler

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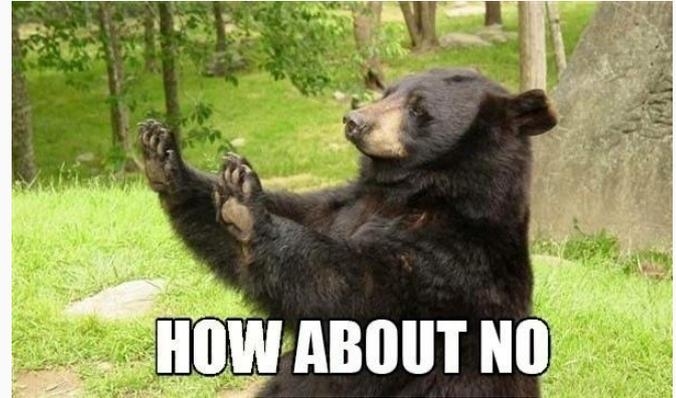
Was ist Angular?

- Komponentenorientiertes Webframework
- Entwickelt von Google
- Open Source
- Aus meiner Sicht zwei wesentliche Ziele:
 - Möglichst viel der modernen Softwareentwicklungsmethodiken zu unterstützen
 - Einen möglichst einfachen Einstieg für Neueinsteiger aus anderen Programmier-Ökosystemen (z.B. Java oder .NET/C#)

Webframework? Oh Gott! Ist das nicht JavaScript?

Übliche Assoziationen:

```
49 // get all the original jpegs, and create the edited jpegs.
50 function reserveWork()
51 {
52   beanstalkd.reserve(function(err, jobid, payload){ reportError(err);
53   beanstalkd.bury(jobid, 1024, function(err){ reportError(err);
54   var spin = JSON.parse(payload.toString());
55   console.dir(spin);
56   spin.shortid = spin.short_id;
57   var s3key = spin.shortid + "/spin.zip";
58   console.log(["spin.shortid="] + spin.shortid + " STARTED (beanjob #" + jobid + ")");
59
60
61
62   s3.getObject({Bucket: s3bucket, Key: s3key}, function(err, data) { if(err) console.error("Could not get " + s3key); reportError(err);
63   fs.mkdir(path.dirname(s3key), function(err){ reportError(err);
64   fs.writeFile(s3key, data.Body, function(err){ reportError(err);
65   // spin.zip is on the file system now
66   var cmd = "unzip -o " + s3key + " -d " + path.dirname(s3key);
67   exec(cmd, function(){
68     console.log("Stuff is unzipped!");
69
70   fs.mkdir(path.dirname(s3key) + "/orig", function(){
71     var vfs = ["null"];
72     var rots = [null, "transpose=2", "transpose=2, transpose=2", "transpose=2, transpose=2, transpose=2"];
73     var rotidx = parseInt(spin.rotation_angle, 10)/90;
74     if(rotidx) vfs.push(rots[rotidx]);
75     var vf = "vf: " + vfs.join(" ");
76     var ffmpeg_cmd = "ffmpeg -i " + path.dirname(s3key) + "/cap.mp4 -q:v 1 " + vf + " -pix_fmt yuv420p " + path.dirname(s3key) + "/orig/#03d.jpg";
77     exec(ffmpeg_cmd, function(){
78       console.log("Done with ffmpeg");
79       // Upload everything to s3
80       Step(function(){
81         for (var i=1; i<=spin.frame_count; i++)
82         {
83           var s3key = spin.shortid + "/orig/" + ("00" + i).substr(-3) + ".jpg";
84           uploadOrig(s3key, this.parallel());
85         }
86       }, function(){
87         fs.readFile(spin.shortid + "/labels.txt", function(err, data){
88           if (err || !data)
89             data = new Buffer("{}");
90           s3.putObject({Bucket: s3bucket, Key: spin.shortid + "/labels.json", ACL: "public-read", ContentType: "text/plain", Body: data}, function(err, data){ reportError(err);
91           console.log("All files are uploaded");
92           beanstalkd.use("editor", function(err, tube){ reportError(err, jobid);
93           beanstalkd.put(1024, 0, 200, JSON.stringify(spin), function(err, new_jobid){ reportError(err, jobid);
94           console.log("Added new job to beanstalkd.");
95           beanstalkd.destroy(jobid, function(){
96             console.log(["spin.shortid="] + spin.shortid + " FINISHED (beanjob #" + jobid + ")");
97             reserveWork();
98           });
99         });
100       });
101     });
102   });
103 });
104 });
105 });
106 });
107 });
108 });
109 });
110 });
111 });
112 });
113 });
114 });
115 }
```



Sammelsurium aus unterschiedlichen Einzelteilen



Was brauche ich um zu Starten?

- NodeJS v6+ installieren
- Angular-CLI für einfachen Starten / Produktivität
- `npm install -g @angular/cli`
- Danach ist global das `ng` Kommando verfügbar



Live Coding Demo

Github: <https://github.com/sven-hoffmann/jug-gr-angular2-live-coding>

Kontakt

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