

Inhalt

- npm-Pakte und package.json
- webpack



NPM und package.json

package.json

```
{
    "dependencies": {
        "@angular/common": "2.0.0",
        [...]
    },
    [...]
}
```

Page ■ 7

```
{
    "dependencies": {
        "@angular/common": "~2.0.0",
        [...]
    },
    [...]
}
```

Page • 8

SOFTWARE architekt.at

package.json

Page ■ 9

```
{
    "dependencies": {
         "@angular/common": "^2.0.0",
         [...]
    },
    [...]
}
```

Page • 10

SOFTWARE architekt.at

package.json

```
{
    "dependencies": {
        "@angular/common": "^2.0.0",
        [...]
    },
    [...]
}
```

Page • 11

```
{
    "dependencies": {
        "@angular/common": "^2.0.0",
        [...]
},
    "devDependencies": {
        "webpack": "^1.12.9",
        "webpack-dev-server": "^1.14.0",
        [...]
},
    [...]
}
```

Page • 12

SOFTWARE architekt.at

package.json

Page • 13

```
{
    "dependencies": {
        "@angular/common": "^2.0.0",
        [...]
    },
    "devDependencies": {
        "webpack": "^1.12.9",
        "webpack-dev-server": "^1.14.0",
        [...]
    },
    "scripts": {
        "webpack": "webpack"
        "start": "webpack-dev-server",
    },
    [...]
}
```

package.json

```
{
   "dependencies": {
      endencies": {
"@angular/common": "^2.0.0",
npm install
      [...]
   "devDependencies": { 🍑
      "webpack": "^1.12.9",
      "webpack-dev-server": "^1.14.0",
      [...]
   "scripts": {
      "start": "webpack-dev-server",
   },
   [...]
                            ----- npm start
}
                          SOFTWARE architekt.at
Page • 15
```

Pakete per npm installieren

- Option 1
 - Paket in package.json eintragen
 - npm install
- Option 2
 - npm install bibliothek --save
 - npm install bibliothek --save-dev

Page ■ 16

SOFTWARE architekt.at

DEMO

Page ■ 17



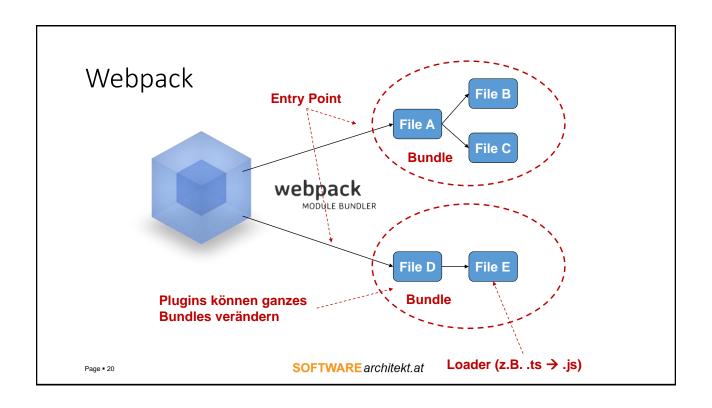
Webpack

Page = 18

Was ist Webpack?

- Build-Tool, Bundling-Lösung
- Schnell
- De-facto Standard
 - (Angular CLI, React, Angular)
- Deklarativ anstatt imperativ
- Unterstützt Node-Pakete (→ defacto Standard)

Page ■ 19



Webpack-Konfiguration

```
module.exports = {
    entry: {
        'vendor': './src/vendor.browser.ts',
        'main': './src/main.browser.ts'
    },
    [...]
}
```

Page • 21

Webpack-Konfiguration

```
module.exports = {
    entry: {
        'vendor': './src/vendor.browser.ts',
        'main': './src/main.browser.ts'
},
    module: {
        rules: [{
            test: /\.ts$/,
            use: ['typescript-loader', 'angular2-template-loader', ...]
        }]
        },
        [...]
}
```

Page • 22

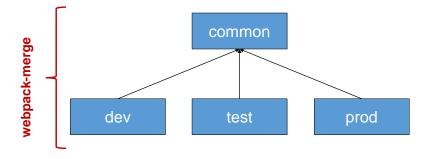
SOFTWARE architekt.at

Webpack-Konfiguration

```
module.exports = {
    entry: {
        'vendor': './src/vendor.browser.ts',
        'main': './src/main.browser.ts'
},
    module: {
        rules: [{
            test: /\.ts$/,
            use: ['typescript-loader', 'angular2-template-loader', ...]
        }]
    },
    plugins: [
        new CommonsChunkPlugin({ ... }),
        new HtmlWebpackPlugin({ template: 'src/index.html' })
    ]
}
```

Page • 23

Webpack-Konfiguration



Page ■ 24

SOFTWARE architekt.at

webpack.dev.config

Angular CLI und Webpack

- Die Angular CLI verwendet Webpack in Hintergrund
- Webpack wird jedoch abgeschirmt
- Aus CLI aussteigen und Webpack-Konfiguration generieren
 - ng eject
 - Ist nicht umkehrbar!