

DESTROY ALL BOILERPLATE

Jump start your app with **Angular Schematics**



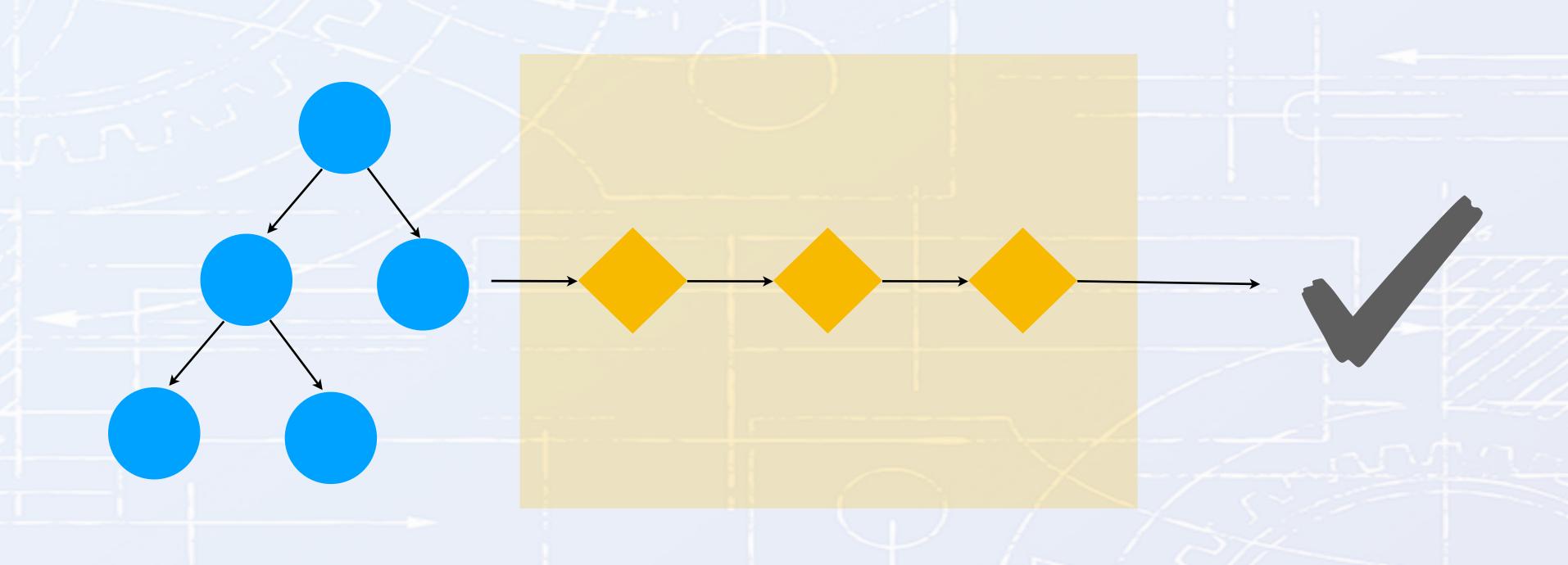
Creating a web application



Schematics

- Developed by Angular CLI team
- Custom scaffolding for the CLI
- Transformation pipeline
- Generate and modify code in filesystem
- Potential changes are staged then committed

Schematics



File System (Tree)

Actions (Rules)

Commit

Writing Your Own Schematics

```
$ npm install -g @angular-devkit/schematics-cli
$ schematics blank -name=my-schematics
CREATE /my-schematics/README.md (639 bytes)
CREATE /my-schematics/package.json (540 bytes)
CREATE /my-schematics/tsconfig.json (656 bytes)
CREATE /my-schematics/.gitignore (191 bytes)
CREATE /my-schematics/inpmignore (64 bytes)
CREATE /my-schematics/src/collection.json (234 bytes)
CREATE /my-schematics/src/my-schematics/index.ts (319 bytes)
CREATE /my-schematics/src/my-schematics/index spec.ts (476
bytes)
```

Writing Your Own Schematics

```
import { Rule, SchematicContext, Tree } from '@angular-
devkit/schematics';

export function mySchematics(_options: any): Rule {
  return (tree: Tree, _context: SchematicContext) => {
    tree.create(_options.name, 'hello world');
    return tree;
  };
}
```

```
$ schematics .:my-schematics --name=test -dry-run=false
```

hello world

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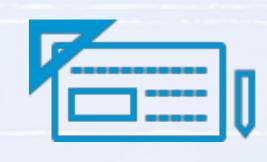
Where Do You Start?

A New App

```
// Install the latest version of the Angular CLI
$ npm install -g @angular/cli
// Initialize a new Angular app
$ ng new my-app
// Add the Clarity module to the app
$ ng add @clr/angular
```

Clarity Design System





UX guidelines



HTML / CSS



Sketch template & library



Angular Components

Where Do You Start?

BEFORE

angular.json

```
"styles": [
  "src/styles.scss"
],
"scripts": []
```

AFTER

angular.json

```
"styles": [
    "node_modules/@clr/icons/clr-icons.min.css",
    "node_modules/@clr/ui/clr-ui.min.css",
    "src/styles.scss"
],
"scripts": [
    "node_modules/path/to/custom-elements.min.js",
    "node_modules/@clr/icons/clr-icons.min.js"
]
```

BEFORE

```
imports: [
  BrowserModule,
  AppRoutingModule
],
```

AFTER

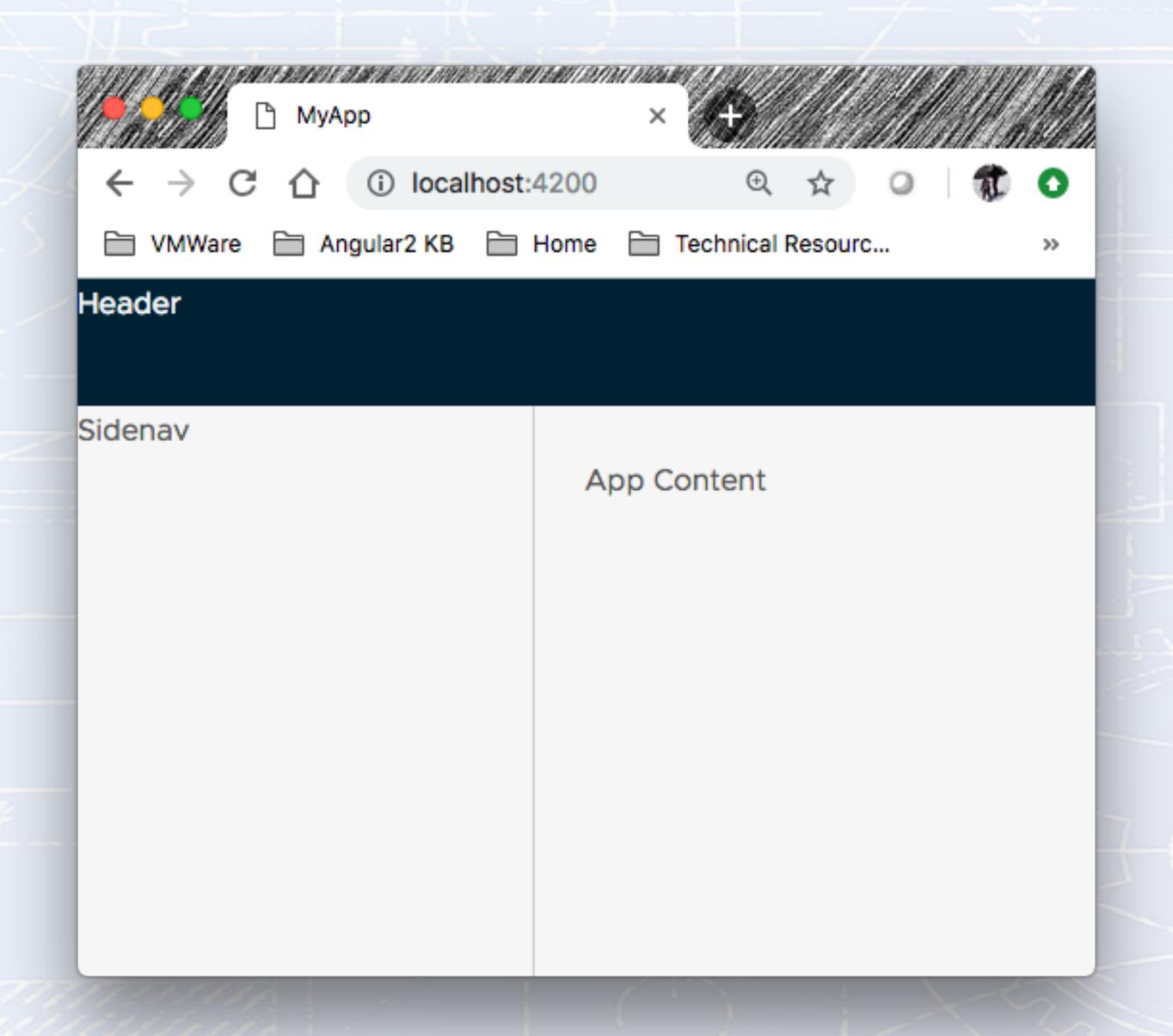
```
imports: [
  BrowserModule,
  AppRoutingModule,
  ClarityModule,
  BrowserAnimationsModule
],
```

Add Layout

```
<div class="main-container">
    <header class="header header-6">
    </header>
    <div class="content-container">
        <div class="content-area">
           <router-outlet></router-outlet>
        </div>
        <nav class="sidenav">
        </nav>
    </div>
</div>
```

- https://vmware.github.io/clarity/documentation/v1.0/app-layout
- Creates a basic application structure with a header, sidenay and container for app content

Standard Clarity Layout



Create A Home

```
$ ng generate component home

CREATE src/app/home/home.component.html (23 bytes)

CREATE src/app/home/home.component.spec.ts (614 bytes)

CREATE src/app/home/home.component.ts (262 bytes)

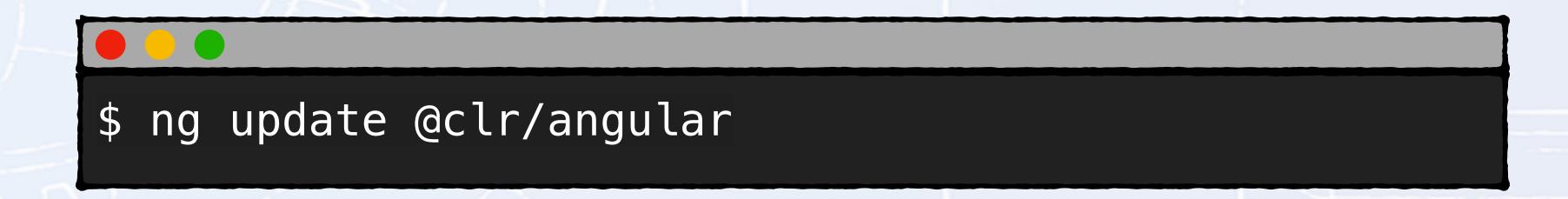
CREATE src/app/app.module.ts (641 bytes)
```

```
declarations: [
   AppComponent,
   HomeComponent
],
```

What if ...

You already have a Clarity app?

Update Existing Apps

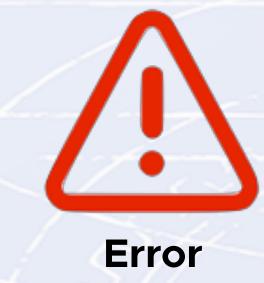


UPDATE MESSAGES

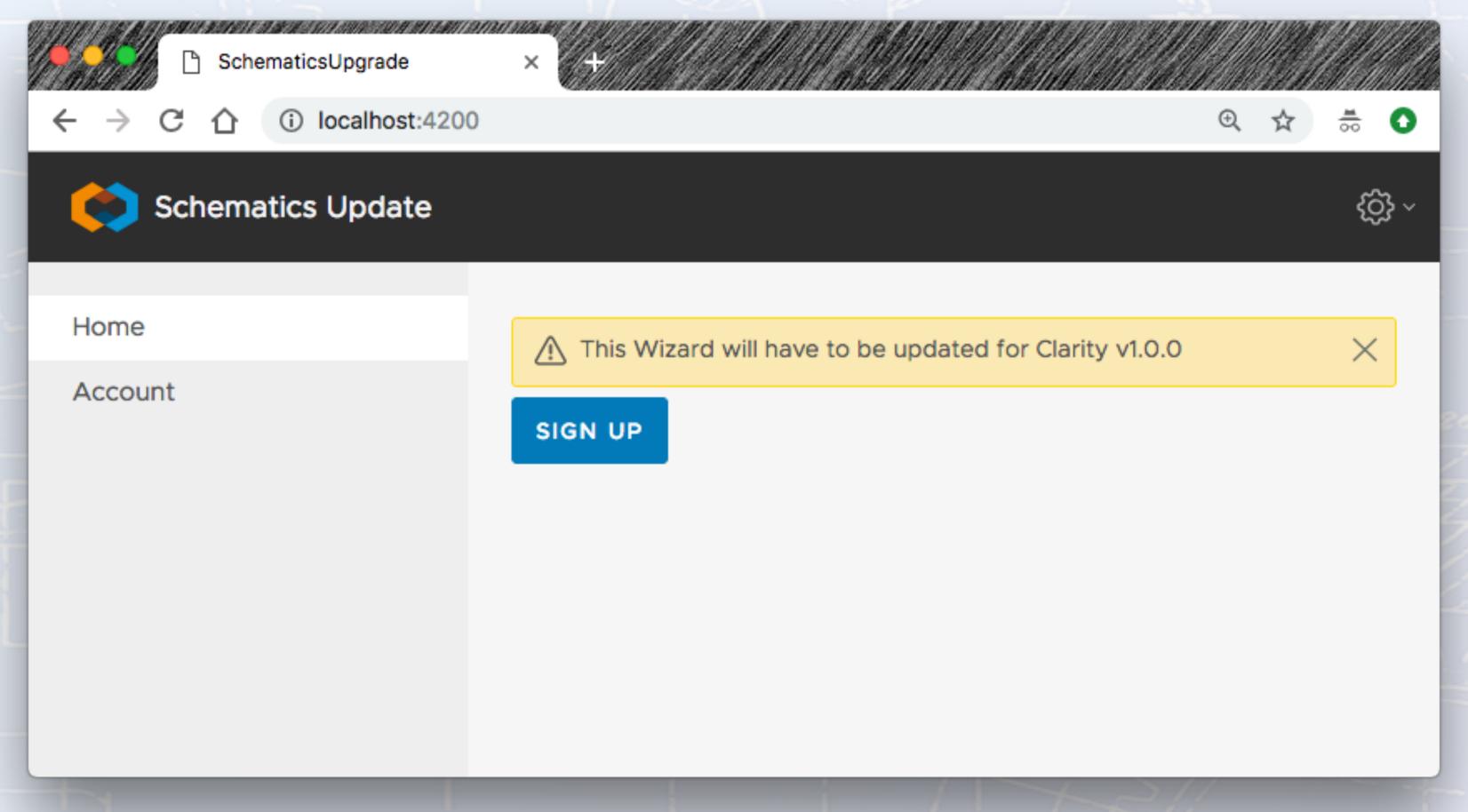








Upgrade Demonstration



- •Starts at Clarity version 0.11.10
- Will be upgraded to Clarity version 1.0.0



BEFORE

```
export class HomeComponent {
   @ViewChild('wizard') wizard: Wizard;
   @ViewChild('pageThree') pageThree: WizardPage;
   @ViewChild('pageFive') pageFive: WizardPage;
   ""
}
```

AFTER

```
home.component.ts
```

```
export class HomeComponent {
   @ViewChild('wizard') wizard: ClrWizard;
   @ViewChild('pageThree') pageThree: ClrWizardPage;
   @ViewChild('pageFive') pageFive: ClrWizardPage;
...
}
```



CODE

WARNING



WARNING: Clarity has removed the ok button
(clrType="ok") from the column hide/show panel in
datagrid. Any custom <clr-dg-column-toggle-button>
component will now default to clrType="selectAll"
without needing the attribute. Please remove any
custom ok button in the column hide/show panel, and
also remove the clrType attributes for buttons with



CODE

home.component.html

```
<clr-dg-cell>
    {{user.name}}
    <clr-icon shape="wand"></clr-icon>
</clr-dg-cell>
```

INFO



INFO: The following icons have been deprecated in its
respective set and have been moved to another set:
`angle-double`, `bar-chart`, `collapse`, `line-chart`, `wand`
Please check that they are being imported from the correct
set. (src/app/account/account.component.html) More info at
https://vmware.github.io/clarity/news/0.13.0-rc.1



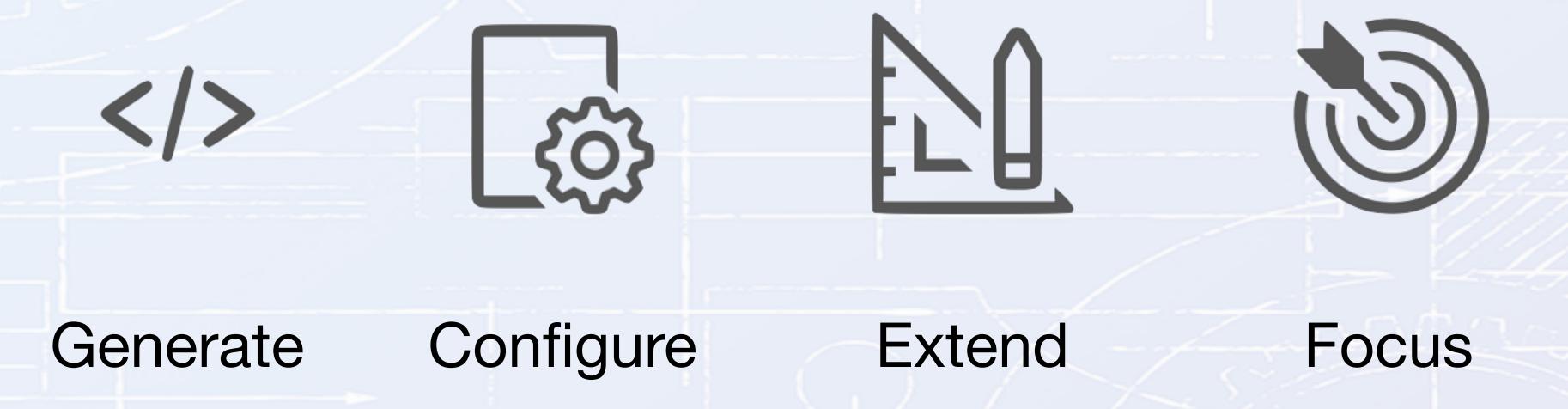
CODE

home.component.ts

ERROR

ACTION REQUIRED: Clarity has removed ghost pages from the Wizard component, please update your wizards accordingly. (src/app/home/home.component.html) More info at https://vmware.github.io/clarity/news/0.13.0-beta.2

Schematics is Power



Thank you





http://clarity.design

https://github.com/ngChina