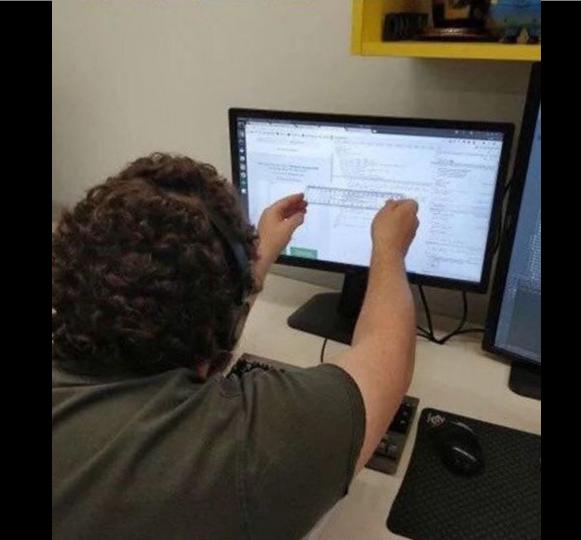


Angular Testing

(4) (f) (in) **(y**)

7 - Visual Regression and Storybook











Application Code



JSDom

@angular/testing





Frontend Application





Headless Browser



Test Specs



















Main Challenges

- 1. Pixel Matching
- 2. Component Isolation

We want **isolated** Component Tests



Introducing Storybook

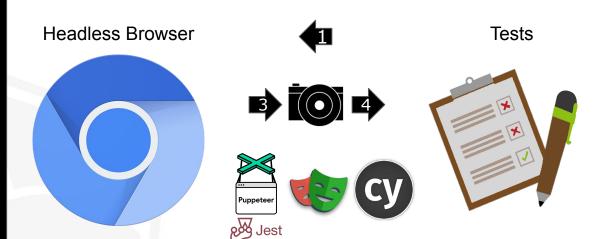




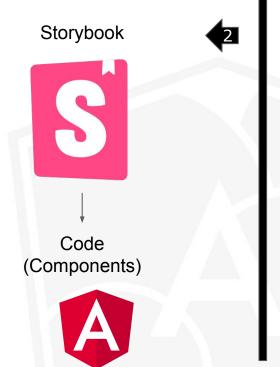


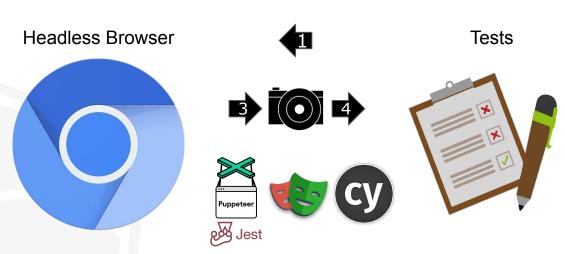














Storybook

- Allows to isolate Components
- Not Angular Specific
- Configure a Component for various states
- Can also used for visual widget library (not just testing)



Storybook Setup - "Module" Configuration - 1/3

```
export default {
  title: 'Eternal/HolidayCard',
  component: HolidayCardComponent,
  decorators: [moduleMetadata({ imports: [MatButtonModule, MatCardModule] })],
  argTypes: { holiday: { name: 'Holiday', description: 'JSON object for the Holiday' } }
} as Meta;
```



Storybook Setup - Template - 2/3

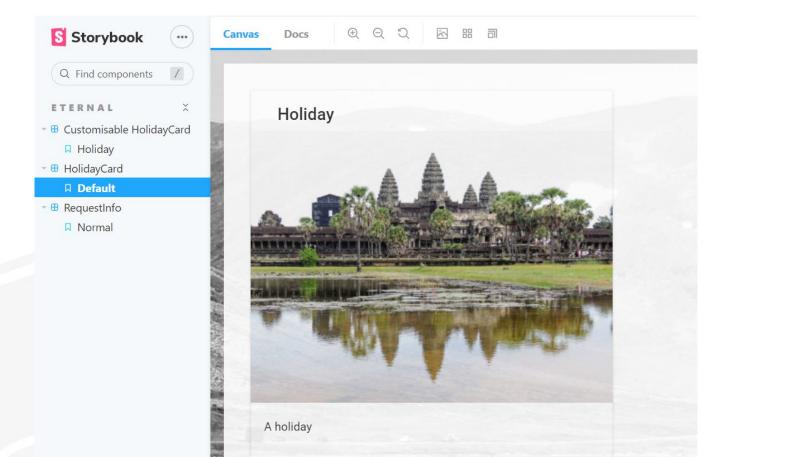
```
const Template: Story<HolidayCardComponent> = (args: HolidayCardComponent) => ({
   component: HolidayCardComponent,
   props: args
});
```



Storybook Setup - Variation - 3/3

```
export const Default = Template.bind({});
Default.args = {
  holiday: {
    id: 1,
    title: 'Holiday',
    description: 'A holiday',
    imageUrl: 'https://eternal-app.s3.eu-central-1.amazonaws.com/assets/AngkorWatSmall.jpg'
};
```





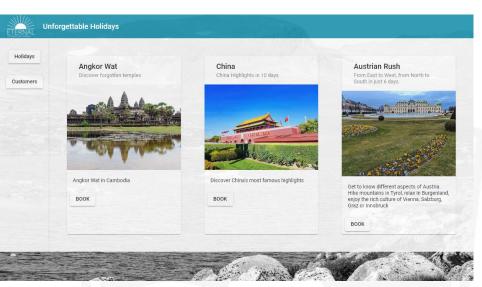
More Information

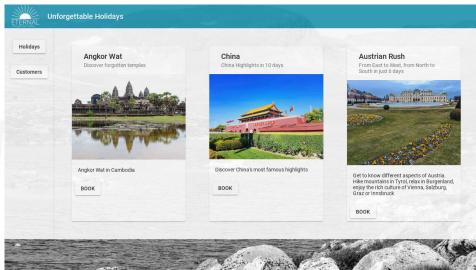


What about Pixel Matching???



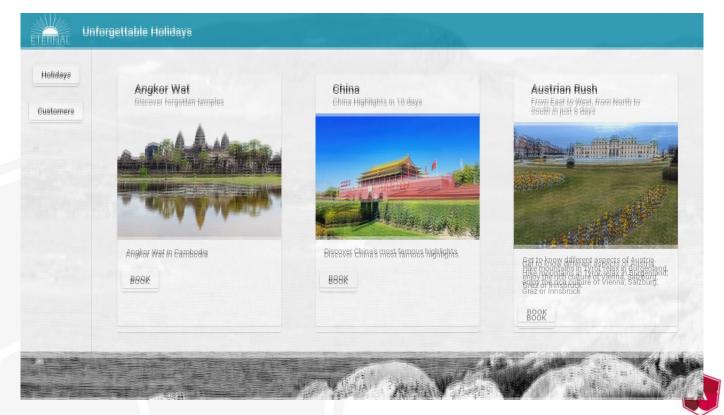
Spot the difference







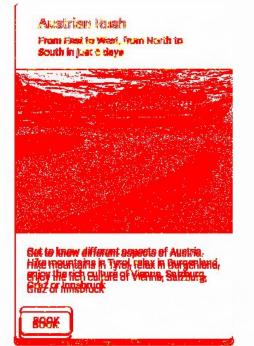
Spot the difference

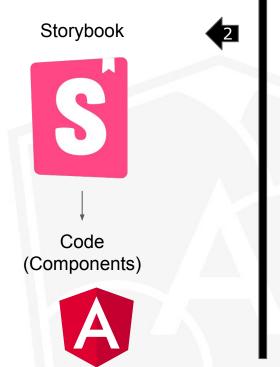


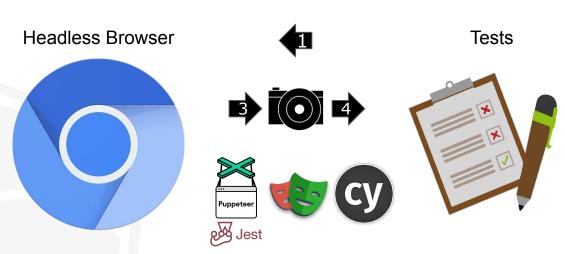
ANGULAR ARCHITECTS Holldaye

Customers

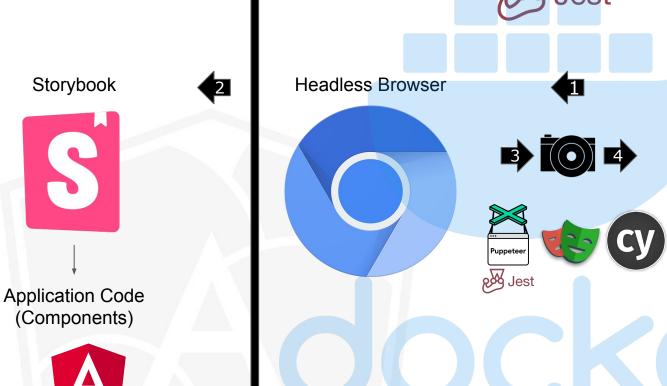


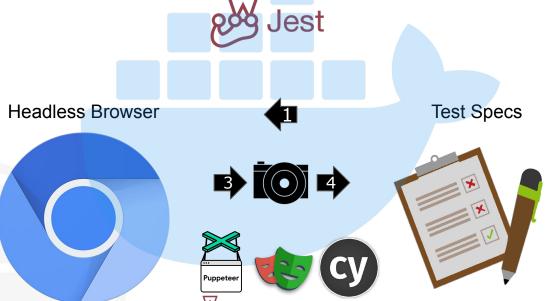






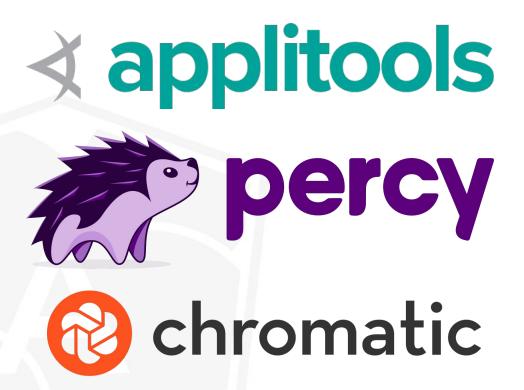








Cloudanbieter





Summary

- Visuelle Regression is an important Testing Technique
- Special Requirements for Infrastructure
 - Docker
 - Cloudprovider
- Storybook for Componenttests and Widget Gallery
- Testingtools:
 - Jest & Puppeteer
 - Playwright
 - Cypress



