

adaptTo()

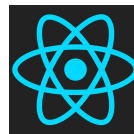
APACHE SLING & FRIENDS TECH MEETUP
BERLIN, 26-28 SEPTEMBER 2016

AEM components written in React
Stefan Meyer, SinnerSchrader

- Motivation
- Basic Examples
- Java Api
- SPA with react router

Motivation

Developers



Client-Side Only ->

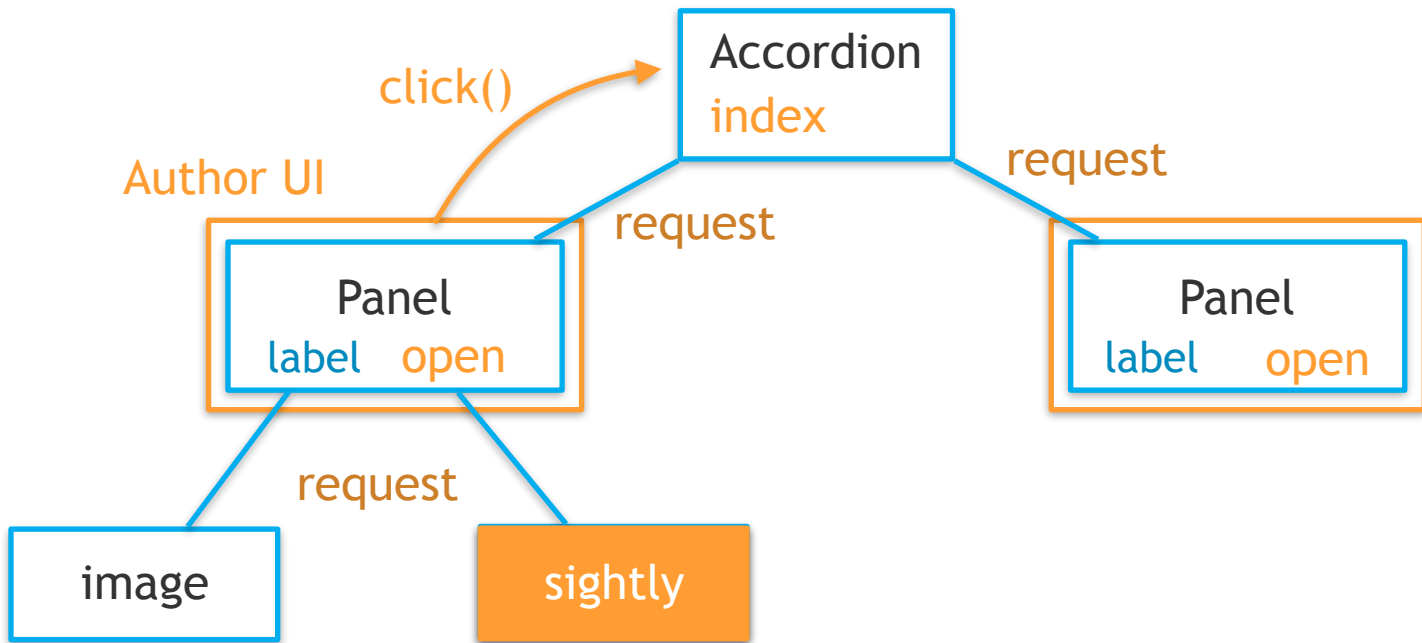
- time to glass
- SEO is hard
- Author mode is impossible

Universal Rendering

Motivation



Motivation

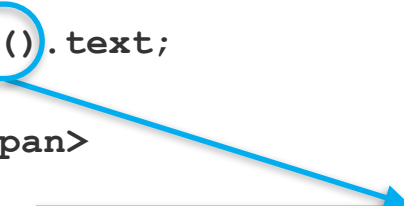


- AEM React
 - github.com/sinnerschrader/aem-react
 - osgi bundle
 - npm module
 - demo content package

Basic Examples

- AEM Component template is React component

```
class Text extends ResourceComponent {  
  
  renderBody () {  
    let text = this.getResource().text;  
    return (  
      <span>{text}</span>  
    );  
  }  
}
```

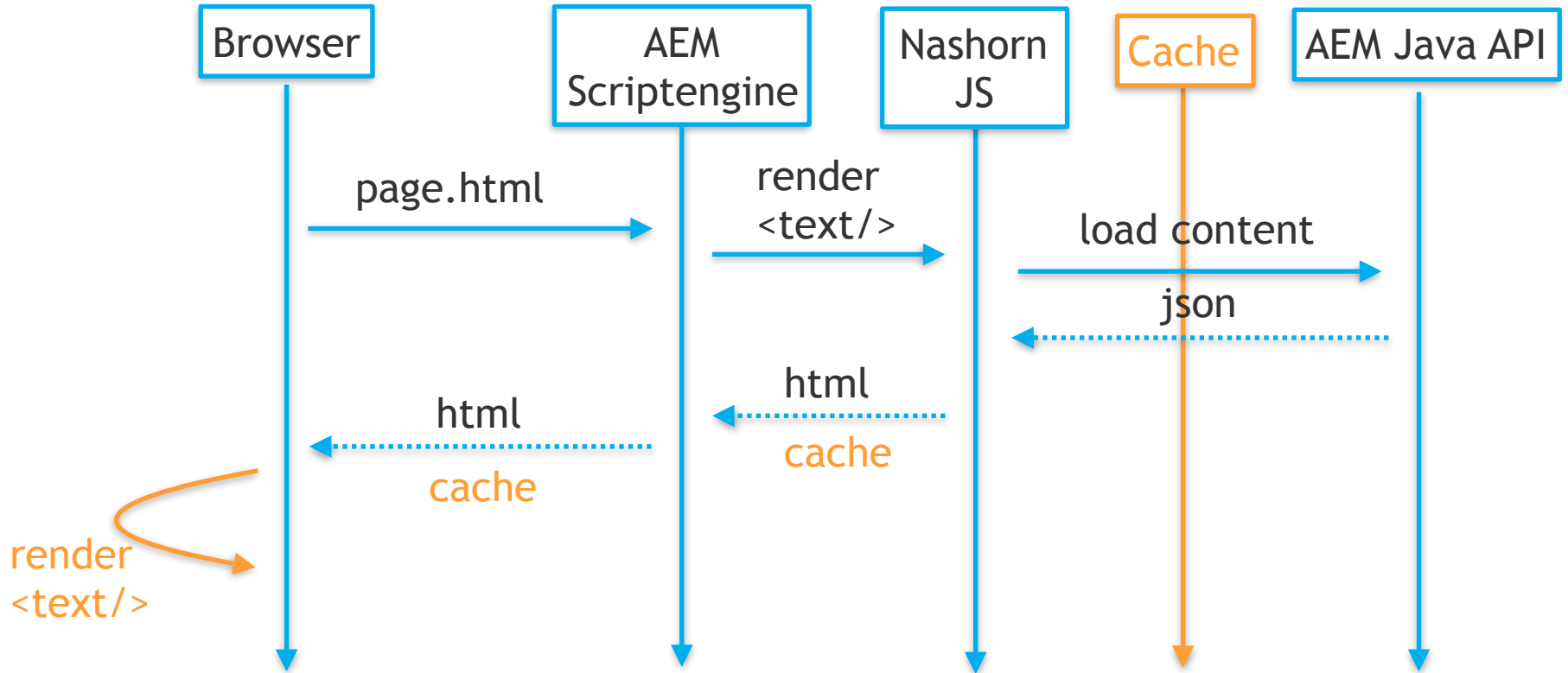


```
{  
  „text“: „Hallo“,  
  „sling:resourceType“: „reactdemo/text“  
}
```

- Embedding à la `<cq:include/>`

```
renderBody() {  
    ..  
    return (  
        <div>  
            <span>{this.getResource().headline}</span>  
            <Text path=„description“/>  
            <ReactParsys path=„par“/>  
            <ResourceInclude path=„rich“ resourceType=„cq/richtext“/>  
        </div>  
    );  
}
```

Server Rendering



- Cache includes
 - resources
 - included components html
 - service call results
 - AEM wrapper element

Java Api

- current resource
- Osgi Service
- Sling Model
- ~~ResourceResolver~~

- Getting access to Java object

```
renderBody() {  
    let service = this.getOsgiService(„com.example.StoreFinder“)  
    let store = service.invoke(„findStore“, „Hamburg“);  
    return (  
        <span>{store.name}</span>  
    );  
}
```

Single Page App

Single Page App

- SPA like a website without browser reload
- Each page is bookmarkable
- Initial page is rendered on server

Single Page App

/cities.html

<CityListView/>

New York
Rio
Tokio
Paris
London
Berlin

<Welcome/>
Find your city

/cities/paris.html

<CityListView/>

New York
Rio
Tokio
Paris
London
Berlin

Paris
<CityView/>

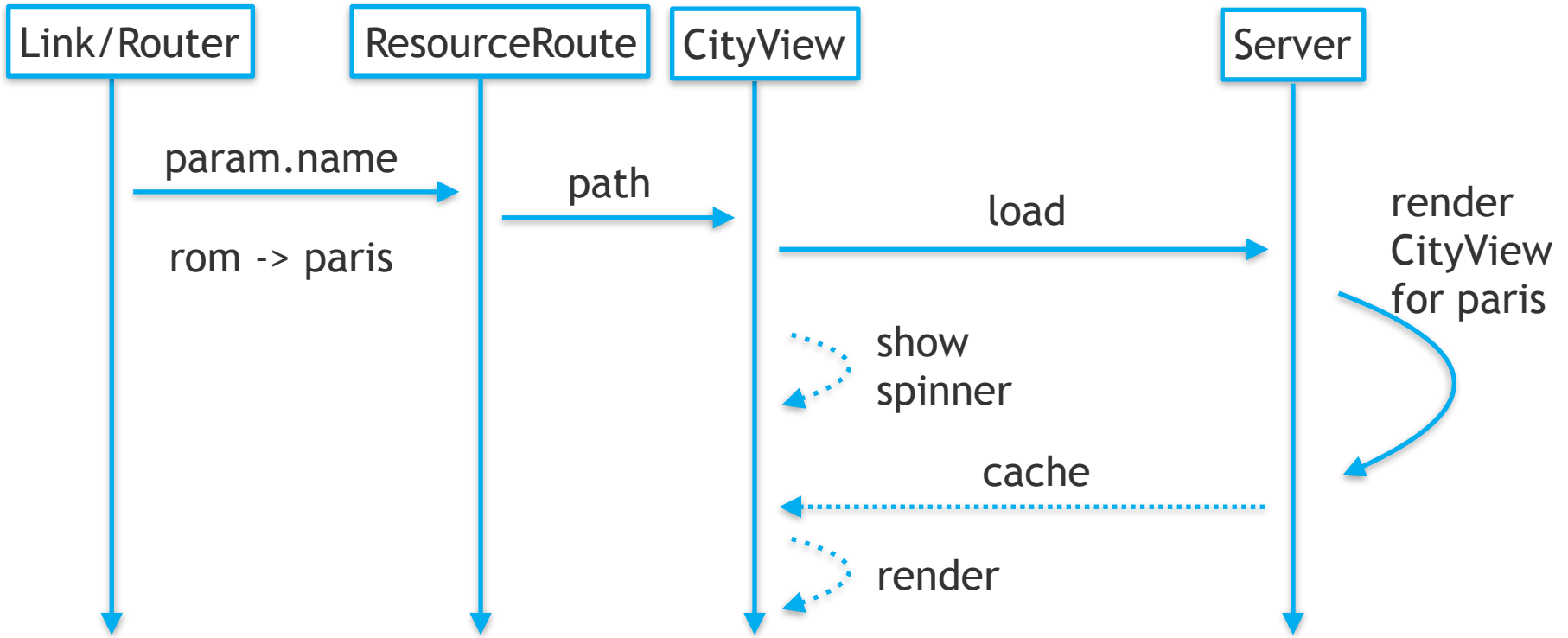


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- React Router

```
renderBody() {  
  return (  
    <Router history={history}>  
      <Route path=„/cities.html“ component={CityListView}>  
        <IndexRoute component={Welcome}/>  
        <Route path=„/cities/(:name).html“  
          component={ResourceRoute} resourceComponent={CityView}/>  
      </Route>  
    </Router>  
  );  
}
```

Single Page App



Thanks