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Quit Jestng and Test Your Lightning Web Components

Peter Chittum

Director, DevRel
EMEA
Salesforce

@pchittum

Philippe Ozil

Developer Evangelist
Salesforce

@PhilippeOzil

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Agenda

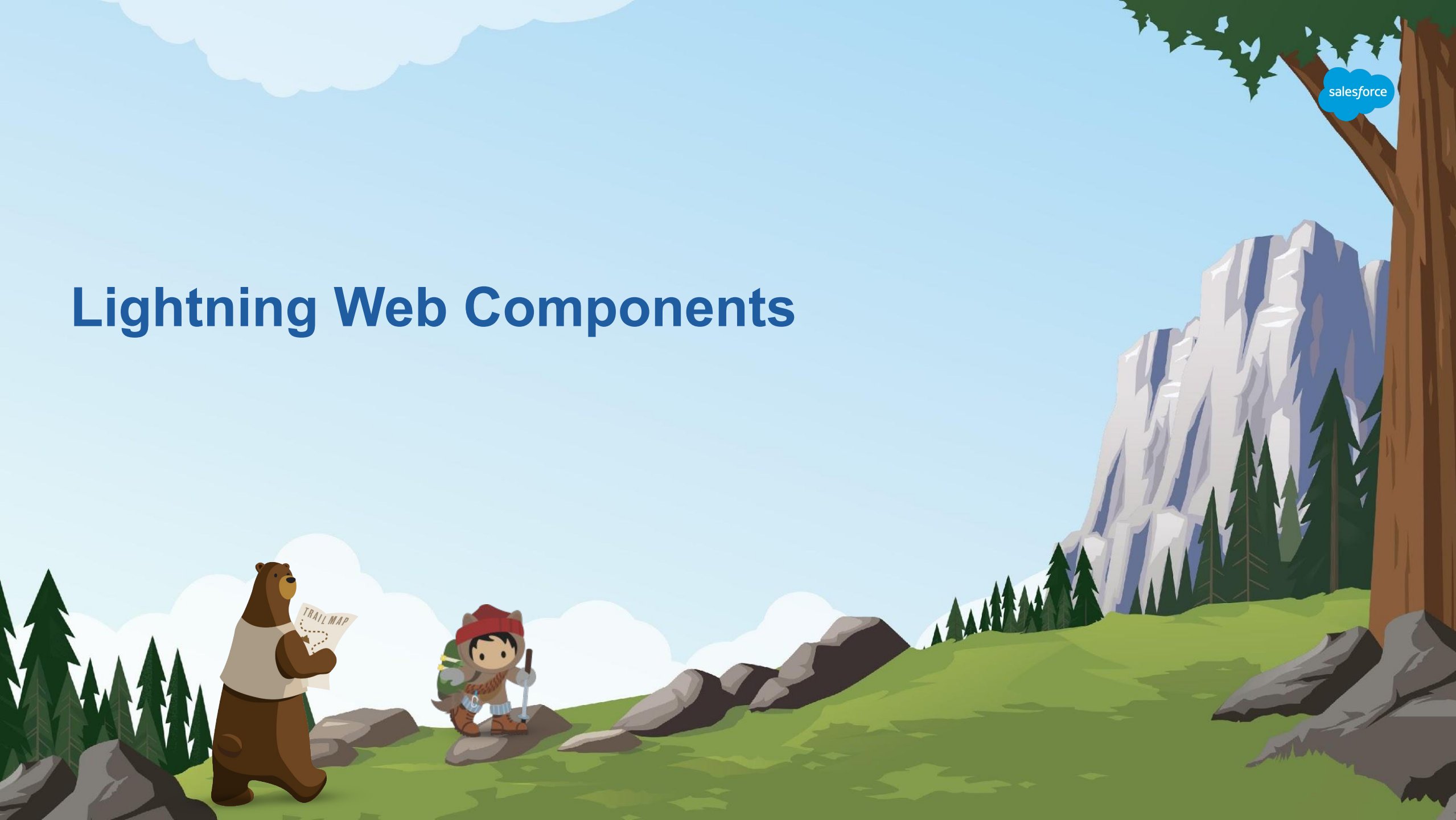


Brief Intro to Lightning Web Components

Testing Lightning Web Components



Lightning Web Components



Introducing Lightning Web Components

New programming model built on modern web standards



Enhanced productivity

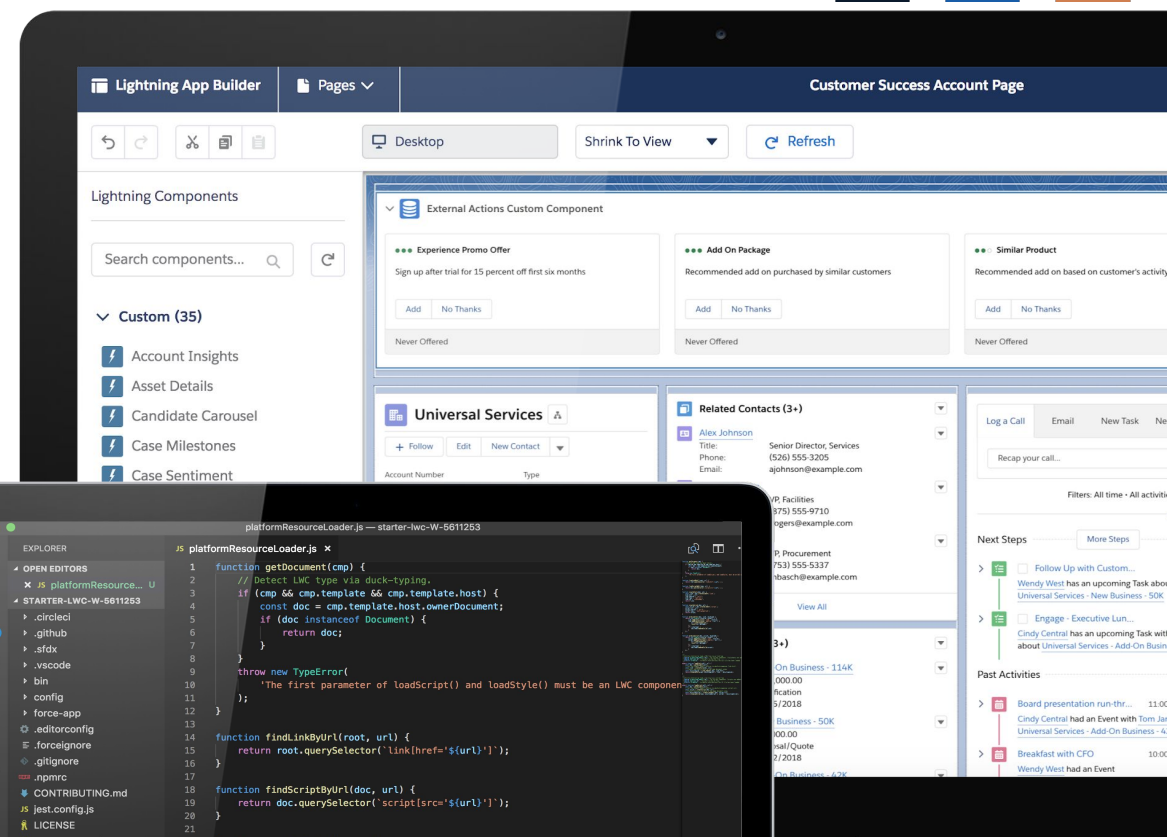
Use web standards like ES6+, classes, modules, custom elements, and templates

Built for performance

More code executed by the browser instead of JavaScript abstractions for a blazing fast experience

Compatible and easy to use

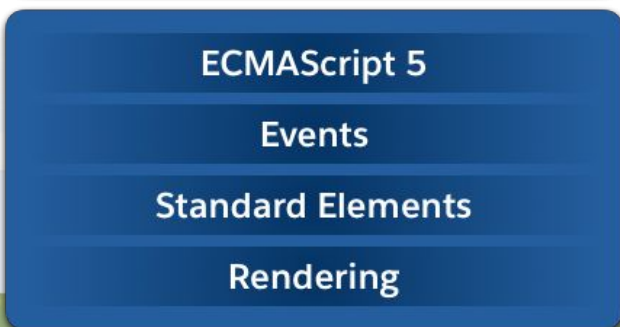
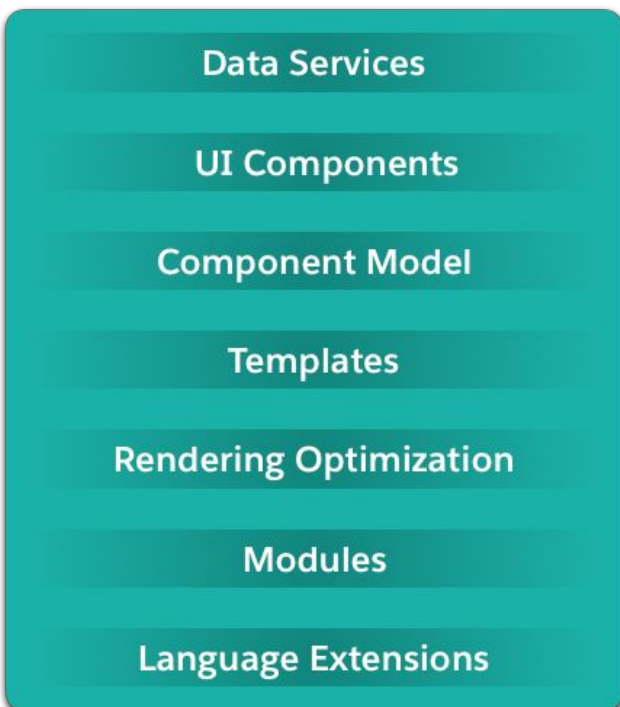
Runs side-by-side with existing Lightning components and can be composed with clicks or code



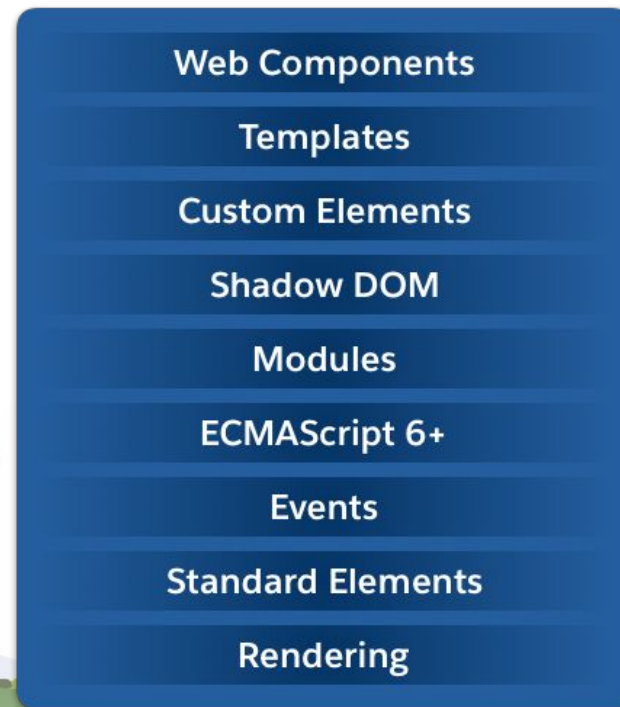
The Web Stack Is Different Today



2014



2019

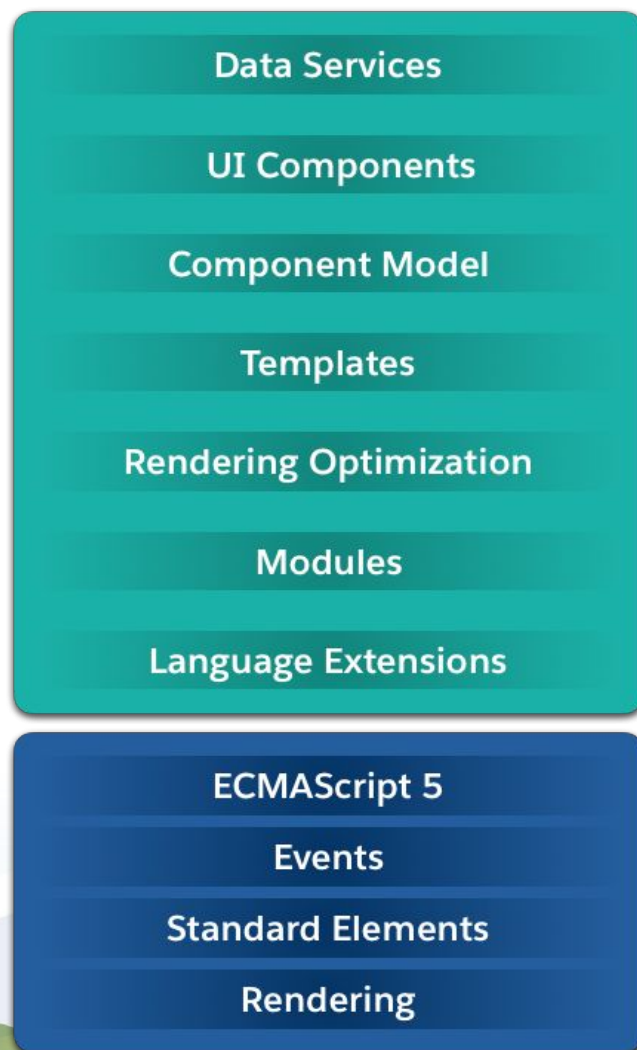


Frameworks
Web Standards

Lightning Web Components Build on Modern Standards



2014



2019



Frameworks
Web Standards

It's about the standards



What is a component



```
import { LightningElement, track } from 'lwc';
```

```
export default class HelloConditionalRendering extends LightningElement {  
  @track areDetailsVisible = false;
```

```
  <template>
```

```
    <lightning-card title="Hello Conditional Rendering">
```

```
      <div class="slds-m-around_medium">
```

```
        <lightning-input type="checkbox" onchange={handleChange}></lightning
```

```
        <div class="slds-m-vertical_medium">
```

```
          <template if:true={areDetailsVisible}>
```

```
            These are the details!
```

```
          </template>
```

```
    ...
```

Demo Time

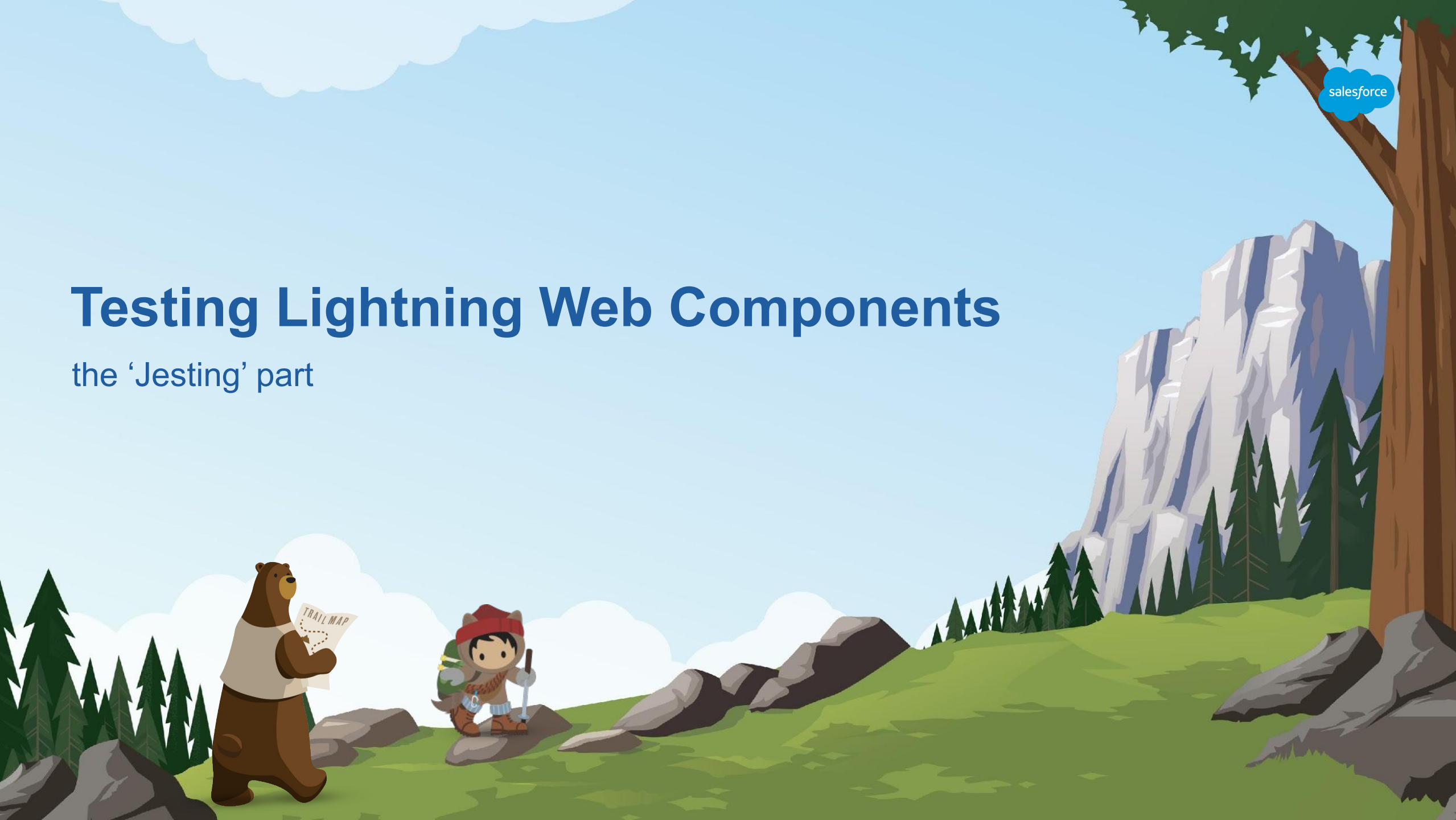
Let's look at some components.

<https://github.com/trailheadapps/lwc-recipes>



Testing Lightning Web Components

the 'Jesting' part



A Distinct Environment for Unit Testing



Salesforce Platform environment

Production org, sandbox, scratch org...

Local unit testing environment

Node.js

Jest + jest-lwc extension

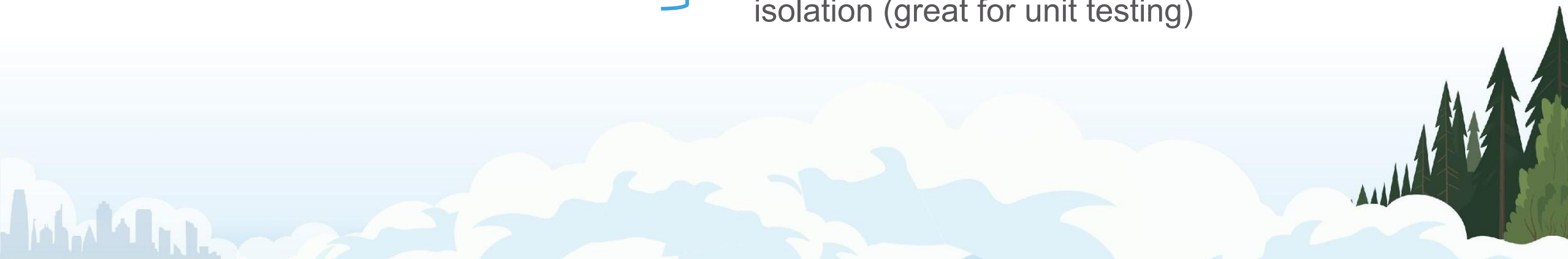
Optional tools (ESLint...)



Standard practices

Flexible configuration & popular JS tools

No Platform access => testing in isolation (great for unit testing)



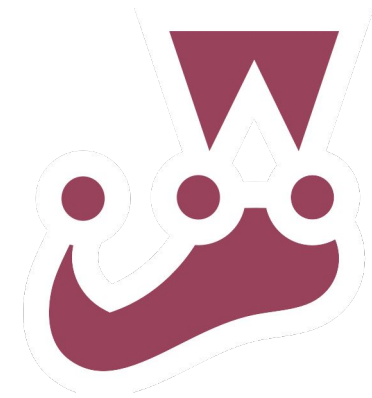
Jest



One the most popular JS testing frameworks

Works with vanilla JS and HTML

Extensions for specific JS frameworks



Jest for Lightning Web Components: lwc-jest



Open Source Jest extension that brings LWC-specific testing features

- Base Lightning Component mocks
- @Wire mocking utility



Demo

Jest do it



Resources



Jest website jestjs.io

Sample App Gallery (Recipes in particular) trailhead.salesforce.com/sample-gallery

Salesforce Developer Blog developer.salesforce.com

Trailhead trailhead.salesforce.com



Thank You



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