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React UI and Splunk: Fast, Flexible and Really, Really, Ridiculously Good Looking Dashboards

DEV1564B

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splunk> .conf22



Justin Brown

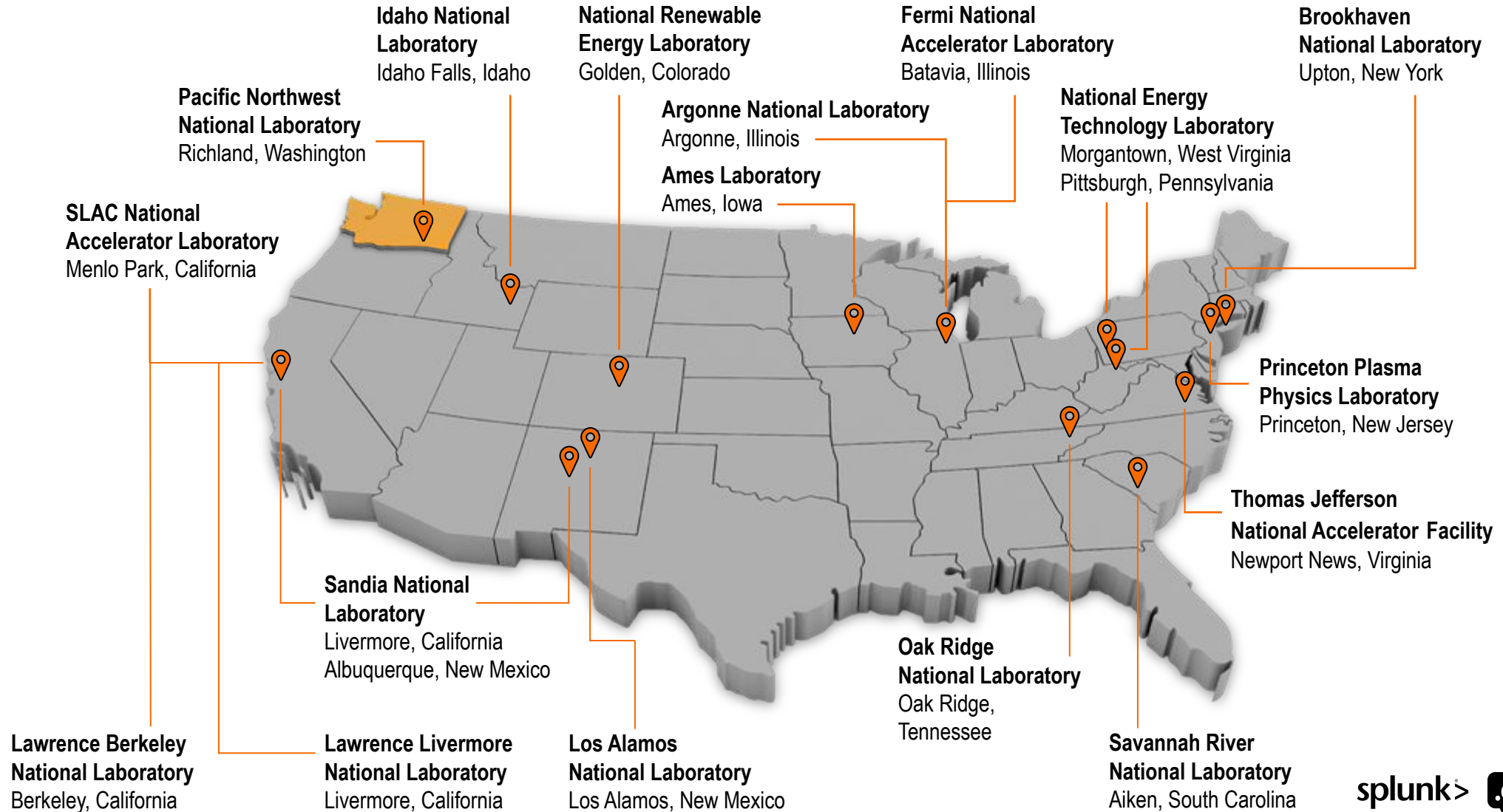
Senior IT Engineer

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About Pacific Northwest National Laboratory

<https://www.pnnl.gov/about>

<https://www.energy.gov/national-laboratories>



Agenda

Why

Why Use React UI

Demonstration of dashboards created using the Splunk® Dashboard Framework

When

When to Use React UI

When you have a hammer, everything looks like a nail

How

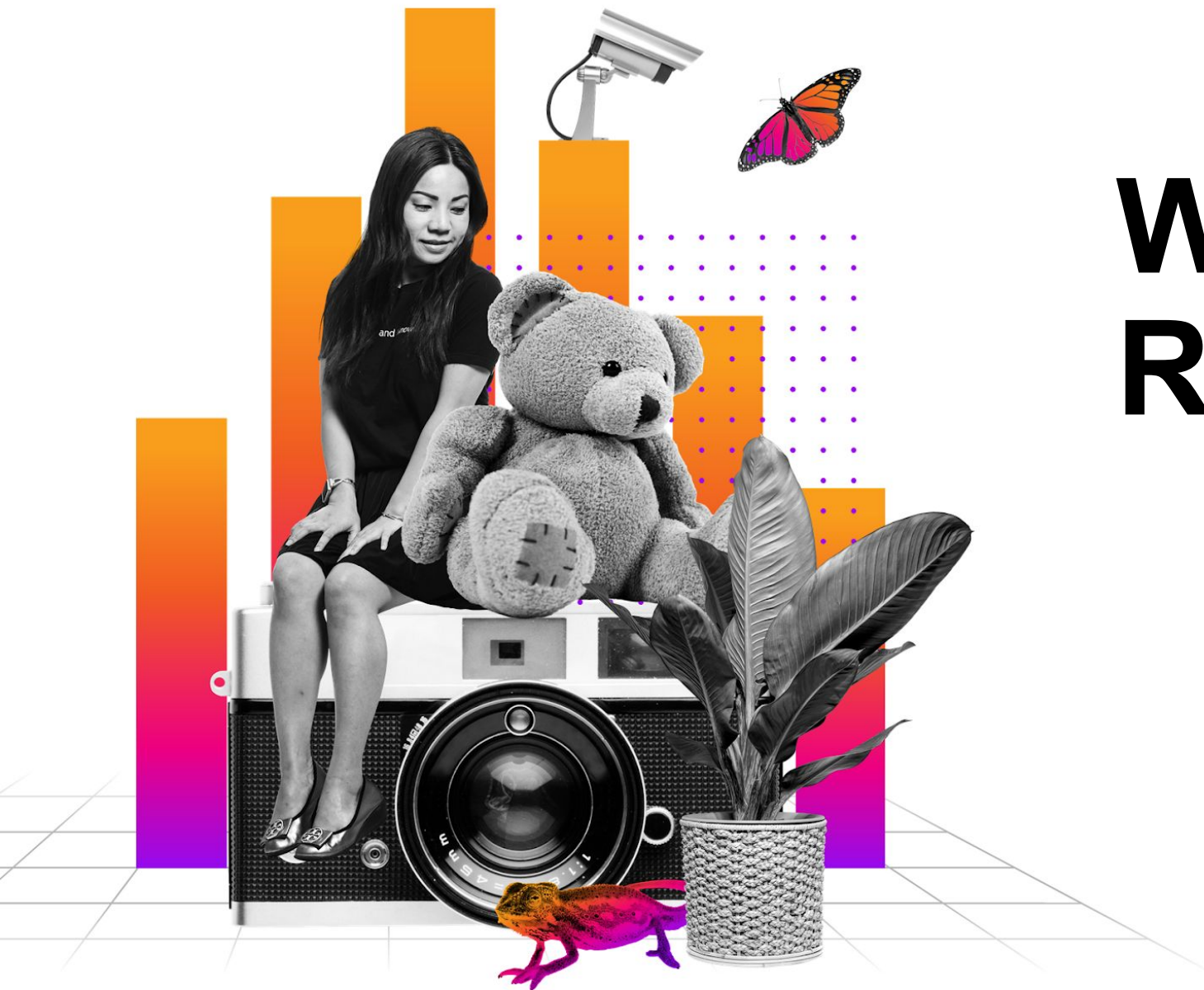
How to Get Started

How to build your own Splunk® React UI dashboards

Where

Where to Find Resources

Links to Splunk® React UI documentation, React components, and content from this presentation



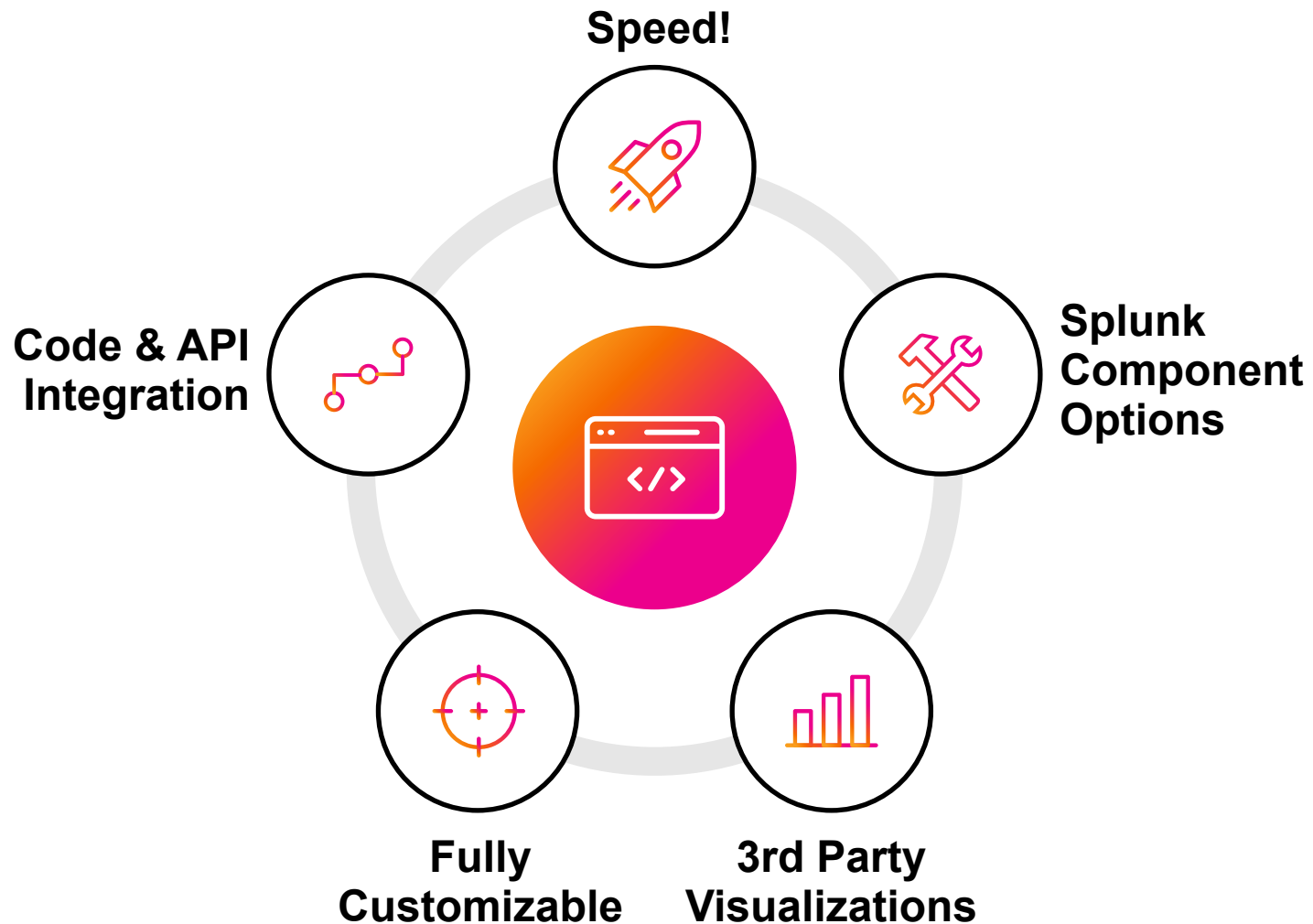
Why Use React UI

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Splunk[®] React UI

Key Benefits



Splunk Components

<https://splunkui.splunk.com/Packages/react-ui/Overview>

[illegible]

Demo Time!

The screenshot shows the Splunk Enterprise interface with a 'NEW' Jira ticket form open. The form includes fields for Issue Type (Task), Priority (Normal), IT SR Category (Operate & Maintain - User Support), Application or Service (Select...), Summary, Description, Epic (Select...), Sprint (Select...), Time Started (4/6/2022, 7:28 AM), and Use Timer (35s). A calendar for April 2022 is also visible, showing the 6th as the selected date.

The screenshot shows the 'PNNL Email Builder' interface. The email content is as follows:

Good morning, Justin!

Because you have recently used Splunk in the evenings, I wanted to let you know about the monthly patching maintenance we have planned for Thursday night.

When: Thursday, April 14 from 7:00 PM to 8:00 PM

During this time, Splunk will be intermittently unavailable and searches may not run correctly. Please let me know if you have any questions or concerns.

The email is addressed to Justin Brown, Infrastructure Applications, Pacific Northwest National Laboratory. The 'Settings' panel shows the source as 'EMAIL', the saved search as 'email_splunk_after_dark', and the subject as 'Splunk monthly patching maintenance tomorrow evening'.

The screenshot shows the 'PNNL Service Excellence' dashboard. It displays various metrics and a table of services.

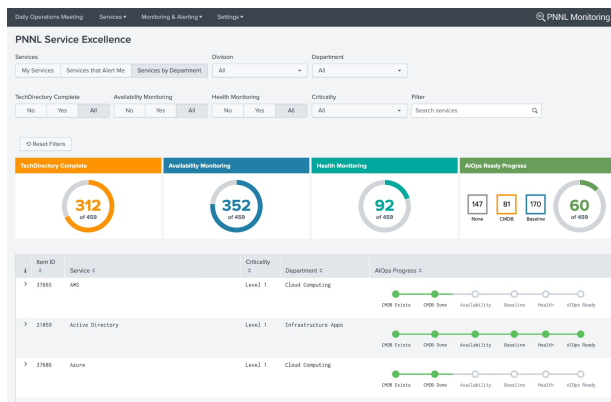
Metrics:

- CMDB Complete: 8 of 8
- Availability Monitoring: 2 of 8
- Health Monitoring: 2 of 8
- Service Excellence Progress: 0 None, 6 CMDB, 0 Baseline, 2 of 8

Table:

Item ID	Service	Criticality	Health Score	Type	Department	Service Excellence Progress
24904	Monitoring Services	Level 1	4.2	Capability	Infrastructure Apps	CMDB Complete, Availability Monitoring, Baseline Requirements, Health Monitoring, Service Excellence
35014	Splunk	Level 2	4.9	Capability	Infrastructure Apps	CMDB Complete, Availability Monitoring, Baseline Requirements, Health Monitoring, Service Excellence
40386	Splunk Heavy Forwarders	Level 2	4.8	Capability	Infrastructure Apps	CMDB Complete, Availability Monitoring, Baseline Requirements, Health Monitoring, Service Excellence
49516	Syslog Collector	Level 2	4.8	Capability	Infrastructure Apps	CMDB Complete, Availability Monitoring, Baseline Requirements, Health Monitoring, Service Excellence
39629	Website Performance Monitoring	Level 2	4.5	Capability	Infrastructure Apps	CMDB Complete, Availability Monitoring, Baseline Requirements, Health Monitoring, Service Excellence

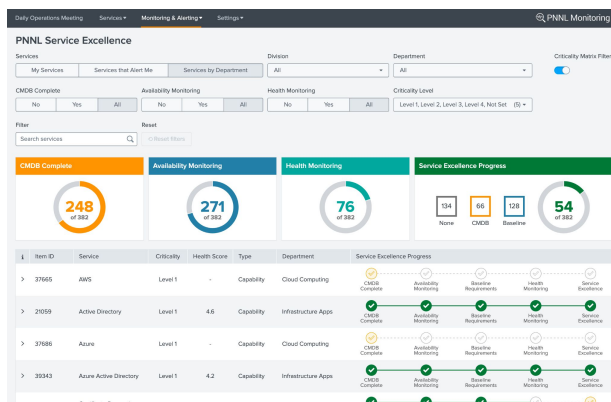
Load Times Measured



HTML Dashboard

Initial load: 7 seconds ⚠

Search Update: 2 seconds ⚠



React Dashboard

Initial load: 2 seconds ✓

Search Update: 0.5 seconds ✓



When to Use React UI

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Dashboard Options

Classic Dashboards



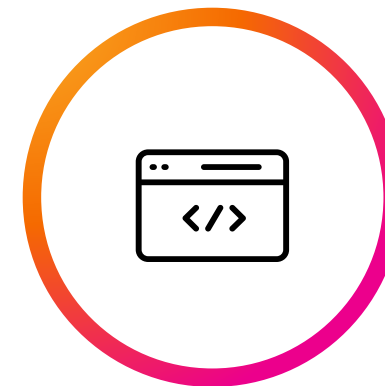
Simple XML based dashboards

Dashboard Studio



Drag and Drop dashboard editor with TONS of customization options built on top of the Splunk Dashboard Framework

Splunk React UI



Splunk® Dashboard Framework based on React JS components

Decisions, Decisions...



Classic Dashboards

More Splunk / 3rd party visualizations

Advanced drill-down options

Advanced token options

Custom Javascript



Dashboard Studio

Easy customization

Better layout control

Color, shapes, and image options

Content export improvements

Decisions, Decisions...



Dashboard Studio

Easy customization

Better layout control

Color, shapes, and image options

Content export improvements



Splunk® React UI

Fully customizable layout & components

Access to Splunk component options

API integration

3rd party visualizations & components

Considering Splunk® React UI

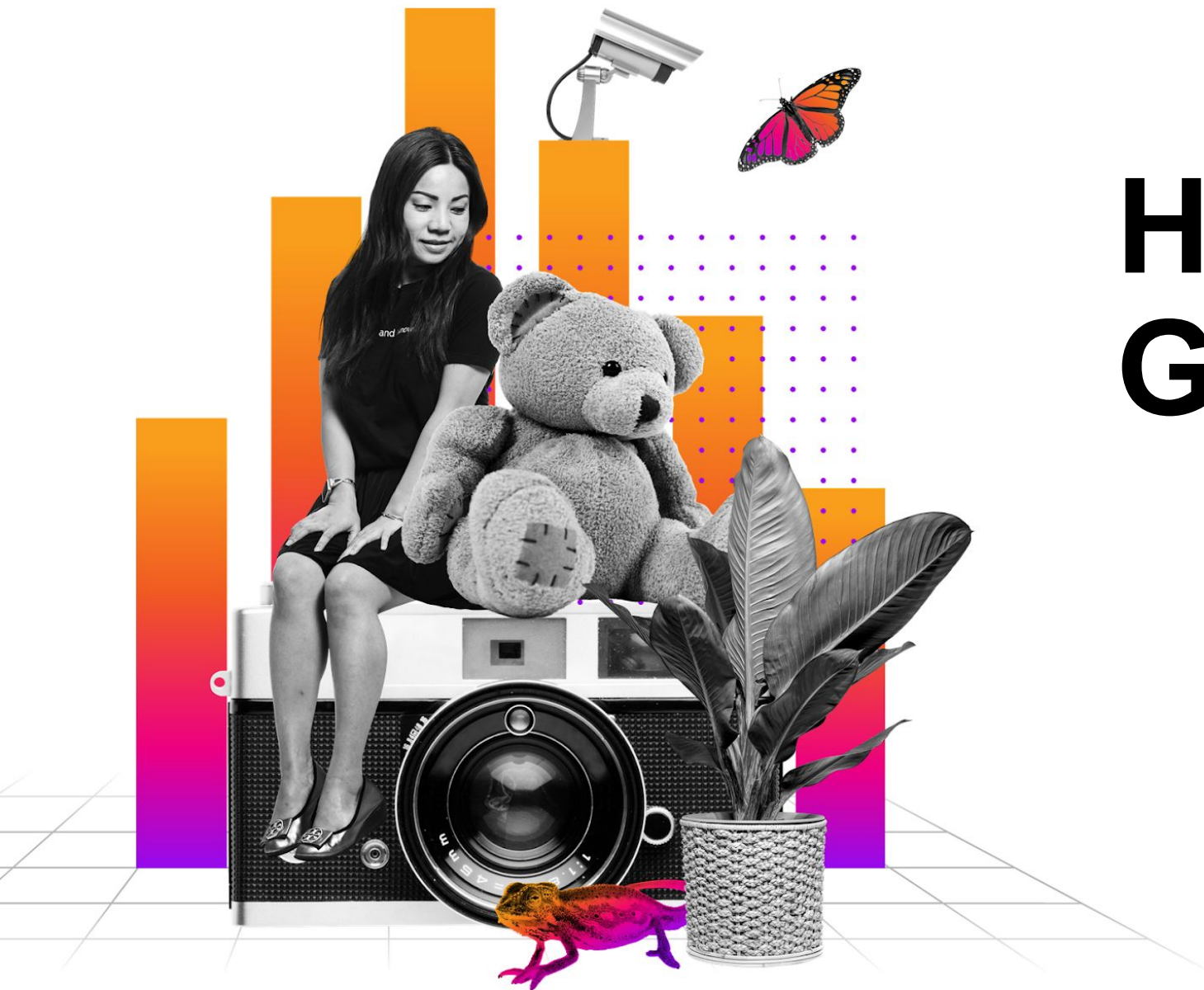
- High level of interactivity
- Custom components or visualizations
- Custom JavaScript
- API consumption
- Converting existing HTML dashboards



Splunk has deprecated HTML dashboards. We recommend all HTML dashboards be rebuilt in Dashboard Studio.



[Learn More](#) 



How To Get Started

splunk> .conf22

Getting Started

<https://splunkui.splunk.com>

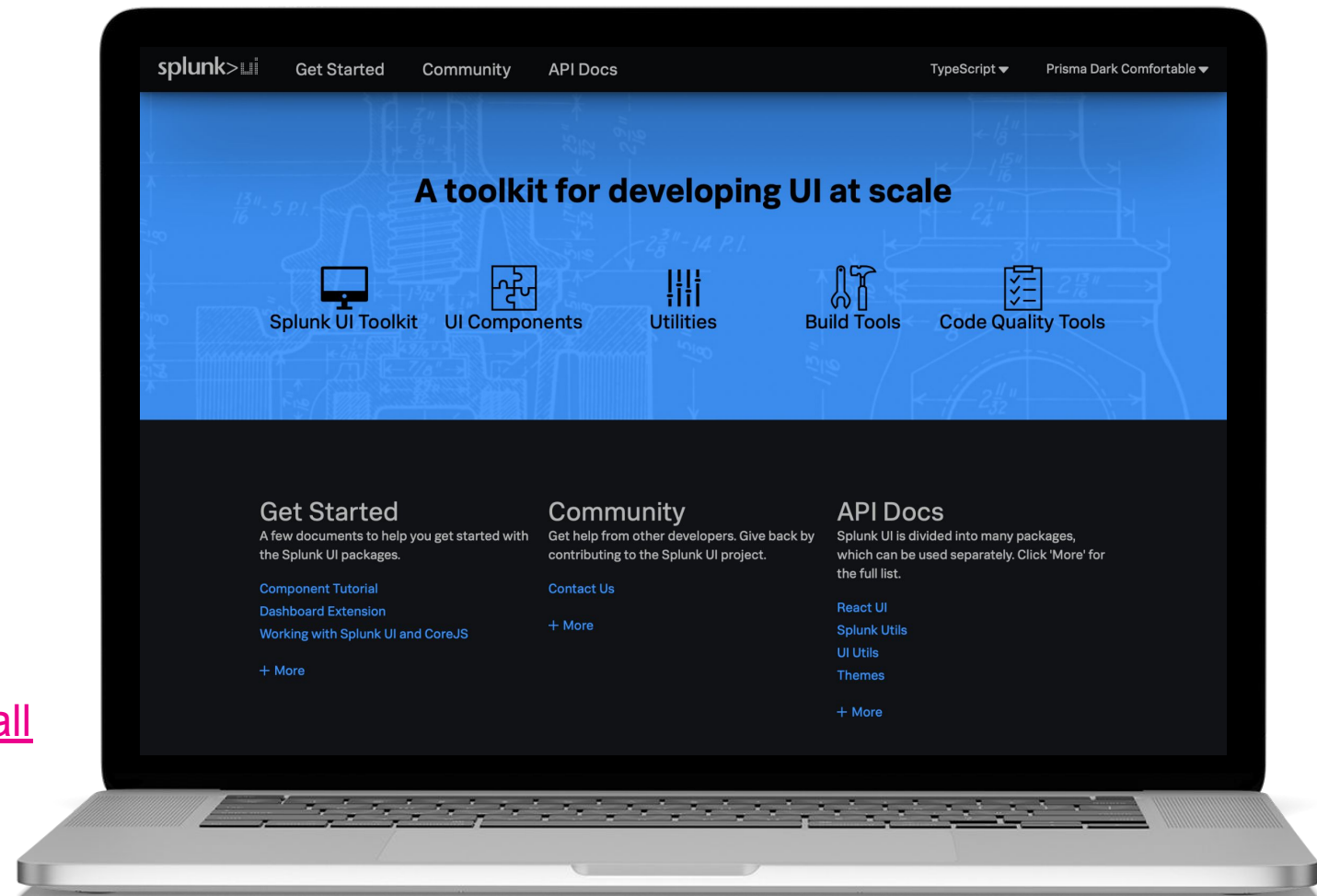
Prerequisites

- Node.js

<https://nodejs.org/en/download/>

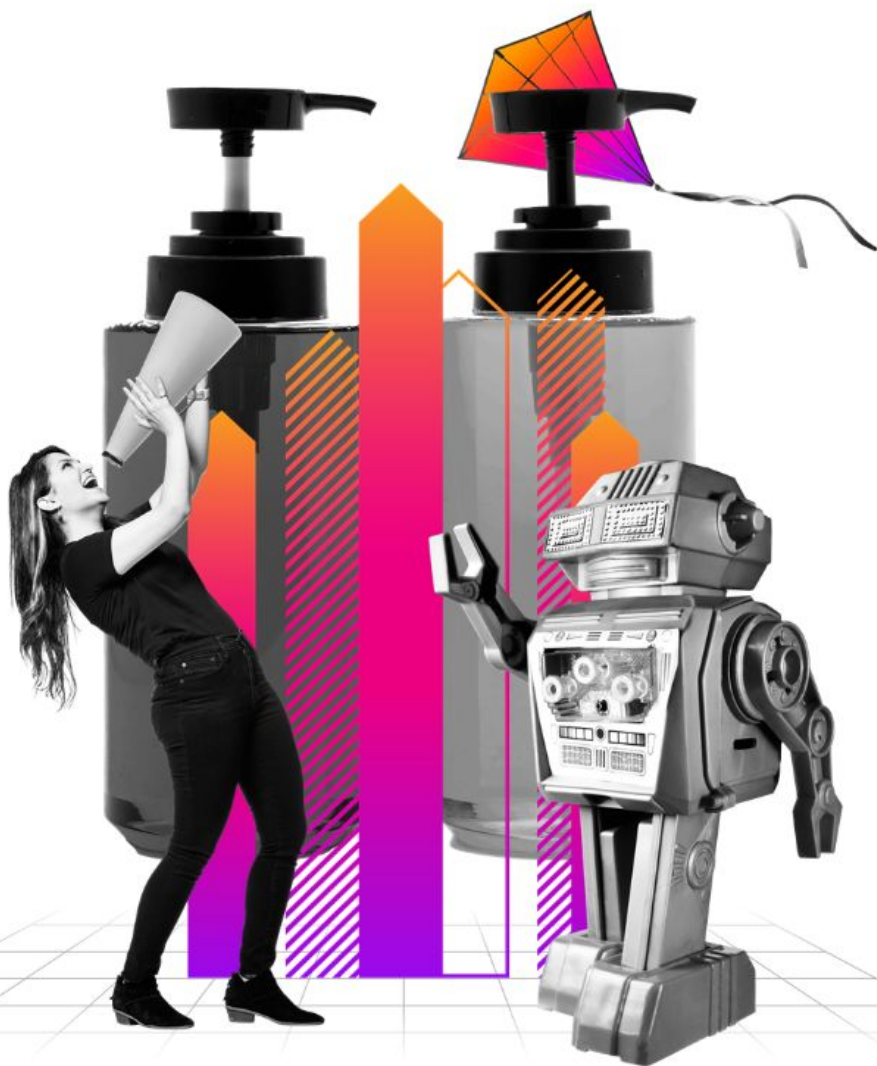
- Yarn

<https://yarnpkg.com/getting-started/install>



Demo Time!

- Starting from scratch
- Integrating with existing apps
- Using Splunk components
- Making custom components
- Using 3rd party components
- Running a search
- Using State
- Managing URL parameters



Where to Find Resources

React Visualization Resources



Nivo

<https://nivo.rocks>



React Google Charts

<https://www.react-google-charts.com>



Victory

<https://formidable.com/open-source/victory/>



react-chartjs-2

<https://react-chartjs-2.js.org>

Other Resources

Documentation

<https://splunkui.splunk.com>

Blog Posts

A New Way to Look Like Splunk

https://www.splunk.com/en_us/blog/platform/a-new-way-to-look-like-splunk.html

Splunk UI and the Dashboard Framework: More Visual Control Than Ever

https://www.splunk.com/en_us/blog/platform/splunk-ui-and-the-dashboard-framework-more-visual-control-than-ever.html

Other Resources

Learning React

<https://reactjs.org/tutorial>

<https://www.codecademy.com/learn/react-101>

<https://www.freecodecamp.org/learn/front-end-development-libraries/#react>

Other Sessions

DEV1619 - Level Up Your Splunk Apps Using the Splunk Dashboards Framework and UI Toolkit

Get the Code

<https://github.com/justinatpnnl>

Thank You

