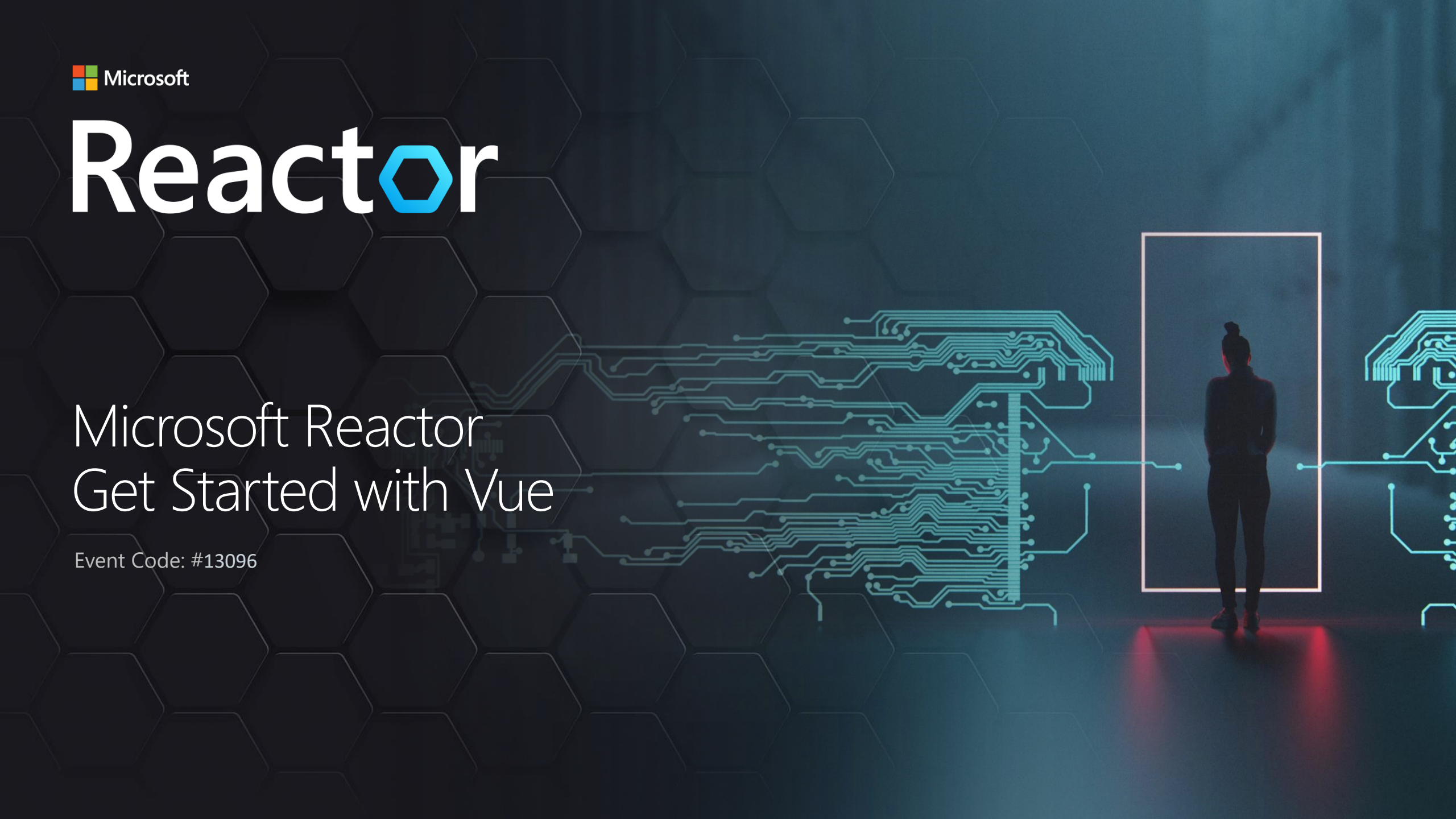
Microsoft

Reactor



Microsoft Reactor
Get Started with Vue

Event Code: #13096

FAQ's

What are the Reactors?

Reactors are community spaces where technology professionals meet, learn, and connect—to both their local peers as well as industry-leading ideas and technology from Microsoft, partners, and the open source community.

With a diverse mix of hands-on workshops, expert panels, and community events, there's something for everyone—whether you're just getting started or working on complex projects.

Reactor programming is always free and inclusive of a broad set of products, tools, and technologies. You will find:

- First party content designed to help developers learn new skills in high-demand fields such as Machine Learning, AI, and Data Science
- New content around breakthrough technologies and concepts such as quantum computing and blockchain
- Resources, talks and classes from Microsoft for Startups to deliver what startups need to succeed
- Cloud Advocates who deep-dive into their technical specialties and the Industry Experiences team to provide tailored content around applications for Manufacturing, Healthcare, Retail, and other verticals
- Reactors always welcome community groups, Meetups, partners and MVPs to use our space

Map

Stockholm
London
Redmond
Toronto
New York
San Francisco
Tel Aviv
Shanghai
Abu Dhabi
Bangalore
São Paulo
Sydney

Our Ask of You

Be aware of others

Be friendly and patient

Be welcoming and respectful

Be open to all questions and viewpoints

Be understanding of differences

Be kind and considerate to others

Get Started with Vue

Allen Sanders

Principal Cloud Architect

Speaker Bio: Allen Sanders is a Principal Cloud Architect with over 25 years of experience in software engineering, architecture and design delivering technology strategy and business solutions in multiple verticals. As a Microsoft Certified Professional, he has taught, led and mentored teams of varying sizes in multiple application transformation efforts. He has a passion for learning – both his own and for others.

Agenda

1	Introduction
2	What is Vue.js?
3	Create an app using Vue.js
4	Attribute binding – data, style, and class
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Introduction

https://aka.ms/GetStartedVue

Objectives

- Explore core concepts of Vue.js
- Create web-based app that displays reactive data
- Explore data binding and style/class binding

Prerequisites

- HTML and CSS
- JavaScript

Software Used

- Git
- Visual Studio Code
- https://vuejs.org/ for more info

Usage Options

- Vue.js has a CLI (Command Line Interface) for building projects
- For this session, we'll be looking at script tag reference in HTML
- Future Reactor sessions will explore additional options with Vue.js

What is Vue.js?

What is Vue.js?

- Open-source progressive JavaScript framework
- Created by Evan You and first released in 2014
- Progressive here means lightweight and easily integrated (build out)

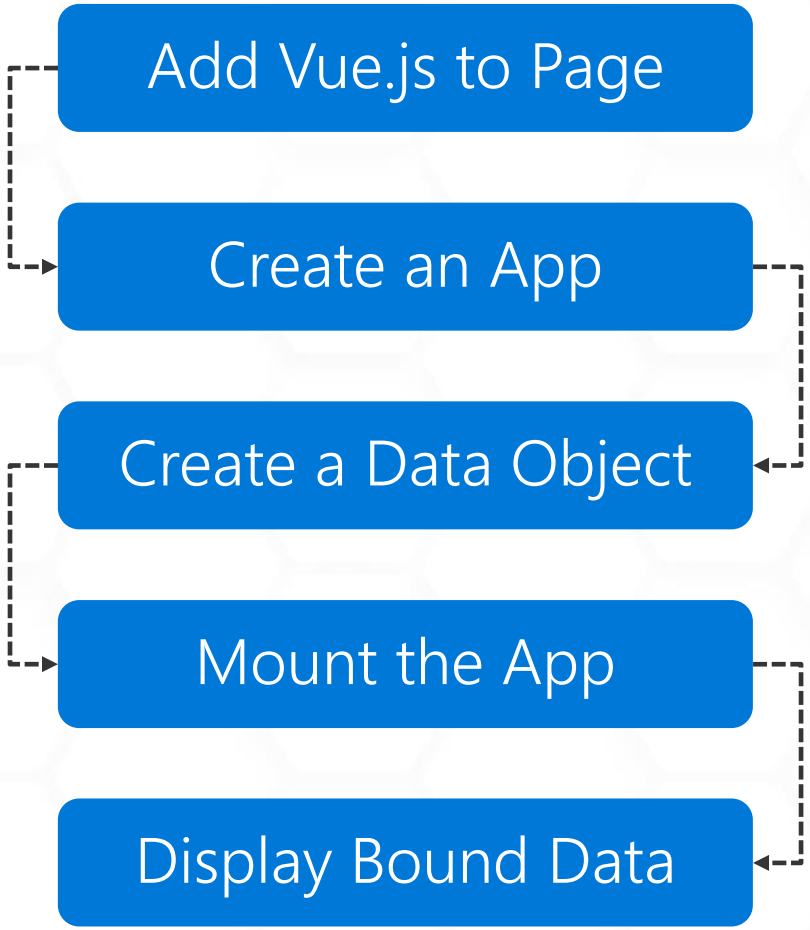
What is Vue.js?

- Focuses on the view layer
- Uses custom HTML attributes (directives) to connect view to model
- Supports composition via reusable components/templates

What is Vue.js?

- Uses reactive binding for a dynamic web experience
- Supports transfer of data between components using properties
- Both built-in and custom directives are supported

Basic Flow


Add Vue.js to Page
Create an App
Create a Data Object
Mount the App
Display Bound Data

Create an app using Vue.js

Attribute binding – data, style, and class

Attribute Binding

- So far, have used simple binding with “handlebars” – {{ }}
- Directives in Vue.js provide more sophisticated binding
- Also, allows for dynamic build out of DOM based on underlying model

Attribute Binding

- {{ }} provide simple display of dynamic data
- Attribute binding enables setting of element attributes dynamically
- For example, can bind *<img> src* to a property of the data model

v-bind

- Core directive in Vue.js for attribute binding
- As discussed, allows binding of HTML attribute to data value
- For example, *<img* ***v-bind:src****="imageSource" />*

v-bind

- Supports shorthand version (generally considered better practice)
- For example, *<img* ***:src****="imageSource" />*
- On changes to bound data values, watchers in Vue.js update view(s)

v-bind:class

- Alternative to hard-coding class names for styling
- In data object, can create object with class names for properties
- Property values will be true (to enable class) or false (to disable)
- Use ***:class***="*<class data object>*" to bind

v-bind:class

```
<div id="app">
    <div :class="classObject">Hello, Vue!</div>
</div>

<script src="https://unpkg.com/vue@next"></script>
<script>
    Vue.createApp({
        data() {
            return {
                classObject: {
                    centered: true,
                    active: true
                }
            }
        }
    }).mount('app');
</script>
```

v-bind:style

- Alternatively, can use style data object for binding
- Defines collection of key/value pairs (CSS attributes)
- Use ***:style***=“*<style data object>*” to bind

v-bind:style

```
<div id="app">
    <div :style="styleObject">Hello, Vue!</div>
</div>

<script src="https://unpkg.com/vue@next"></script>
<script>
    Vue.createApp({
        data() {
            return {
                styleObject: {
                    'background-color': 'red'
                }
            }
        }
    }).mount('app');
</script>
```

Knowledge Check

Summary

What Did We Cover?

- Core concepts of Vue.js
- Build out of a simple reactive web app using the framework
- Attribute, style, and class data binding

Next Steps / Further Study

- https://aka.ms/GetStartedVue
- https://vuejs.org/
- https://v3.vuejs.org/guide/introduction.html
- https://www.vuemastery.com/blog/vue-2-or-vue-3/

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Reactor

Thank You!

Q&A

https://www.meetup.com/pro/microsoft-reactor

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http://www.youtube.com/c/MicrosoftReactor

aka.ms/ReactorEmailSignUp

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We are constantly striving to create excellent content
and would appreciate if you could take this brief survey.

Survey Link: https://aka.ms/Reactor/Survey

Please enter the event code 13096 at the start of survey

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