

Modern web with React

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Software

Agenda

- What is the modern web?
 - Ingredients of the modern web
 - Basics of React
 - Getting started
-
- Take-away: Your very own React web application!

What is the modern web?

[Yahoo Shopping](#) - Thousands of stores. Millions of products.

Departments	Stores	Products
· Apparel	· Flowers	· Sports Authority
· Bath/Beauty	· Food/Drink	· Gap
· Computers	· Music	· Eddie Bauer
· Electronics	· Video/DVD	· Macy's

[Arts & Humanities](#)

Literature, Photography...

[News & Media](#)

Full Coverage, Newspapers, TV...

[Business & Economy](#)

Companies, Finance, Jobs...

[Recreation & Sports](#)

Sports, Travel, Autos, Outdoors...

[Computers & Internet](#)

Internet, WWW, Software, Games...

[Reference](#)

Libraries, Dictionaries, Quotations...

[Education](#)

College and University, K-12...

[Regional](#)

Countries, Regions, US States...

[Entertainment](#)

Cool Links, Movies, Humor, Music...

[Science](#)

Animals, Astronomy, Engineering...

[Government](#)

Elections, Military, Law, Taxes...

[Social Science](#)

Archaeology, Economics, Languages...

[Health](#)

Medicine, Diseases, Drugs, Fitness...

[Society & Culture](#)

People, Environment, Religion...

[In the News](#)

- [Mich. girl, 6, shot by classmate](#)
- [Bush, Gore win in primaries](#)
- [Israel releases Nazi Eichmann's memoirs](#)

[more...](#)

[Marketplace](#)

- Free [56K Internet Access](#)
- [Y! Auctions - Peanuts, Pokemon, computers](#)
- [Yahoo! Bill Pay - free 3-month trial](#)

[more...](#)

[Inside Yahoo!](#)

- [Yahoo! GeoCities - build your free home page](#)
- Play free [Fantasy Soccer](#)
- [Yahoo! Clubs - create your own](#)
- [Y! Greetings - free greeting cards](#)

[more...](#)

World Yahoo's Europe : [Denmark](#) - [France](#) - [Germany](#) - [Italy](#) - [Norway](#) - [Spain](#) - [Sweden](#) - [UK & Ireland](#)
 Pacific Rim : [Asia](#) - [Australia & NZ](#) - [China](#) - [Chinese](#) - [HK](#) - [Japan](#) - [Korea](#) - [Singapore](#) - [Taiwan](#)
 Americas : [Brazil](#) - [Canada](#) - [Mexico](#) - [Spanish](#)

Yahoo! Get Local [LA](#) - [NYC](#) - [SF Bay](#) - [Chicago](#) - [more...](#)

Enter Zip Code

Other [Autos](#) - [Careers](#) - [Digital](#) - [Entertainment](#) - [Greetings](#) - [Health](#) - [Invites](#) - [Local Events](#) - [Net Events](#)
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Then (2000)

Today

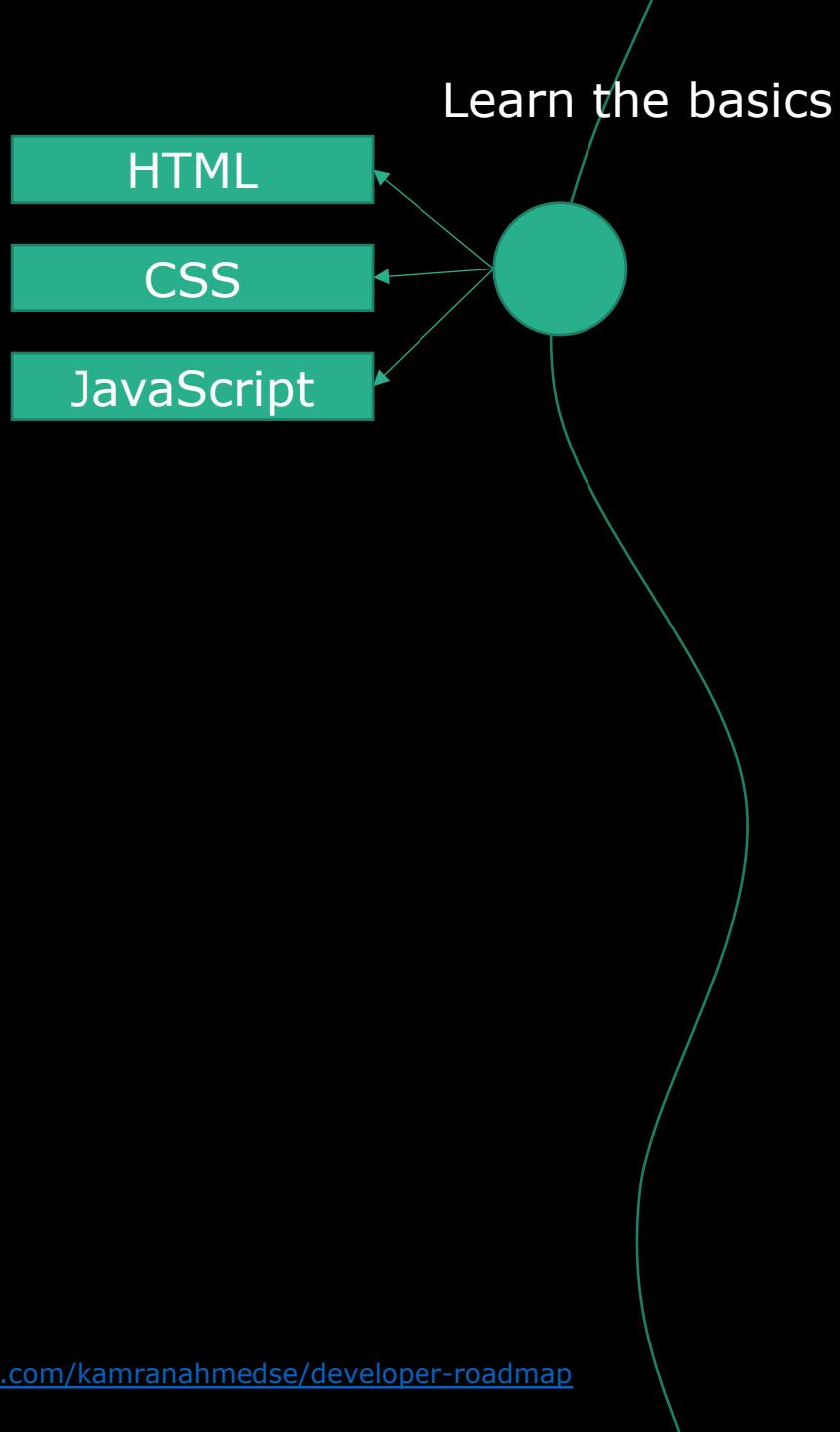
- Dynamic
- Interactive
- Responsive



A screenshot of the Facebook desktop or tablet interface. At the top, there's a search bar and a navigation bar with Adam's profile picture, Home, Create, and a person icon. The main content area includes a 'Create post' section with a placeholder 'What's on your mind, Adam?'. Below this are 'Photo/Video', 'Tag friends', 'Feeling/Activ...', and a 'See more...' button. The 'Stories' section shows four stories from Jami Muñoz, Minh Thú, and Ryan Hee Sang Kim, each with a 'Add to Story' button. The 'Timeline' section shows a post from Ayana Yoshida (21 hrs ago) sharing a memory: 'we are almost ready for this year's success!' with a '1 Year Ago' link. Another post from Mori Masaya (29 October 2018) expresses gratitude for a technology conference. On the right side, there are sections for 'People you may know' (Jonathan Reule, Qingyong Yu, Dakshina Udayan), a 'LIVE' video from the Dalai Lama, and links for English (UK) and English (US). At the bottom, there are links for Privacy, Terms, Advertising, Cookies, and More, along with the Facebook copyright notice (Facebook © 2019).

Ingredients of the modern web

Learning Path



Basics

HTML

- Structure
- Layout



CSS

- Design

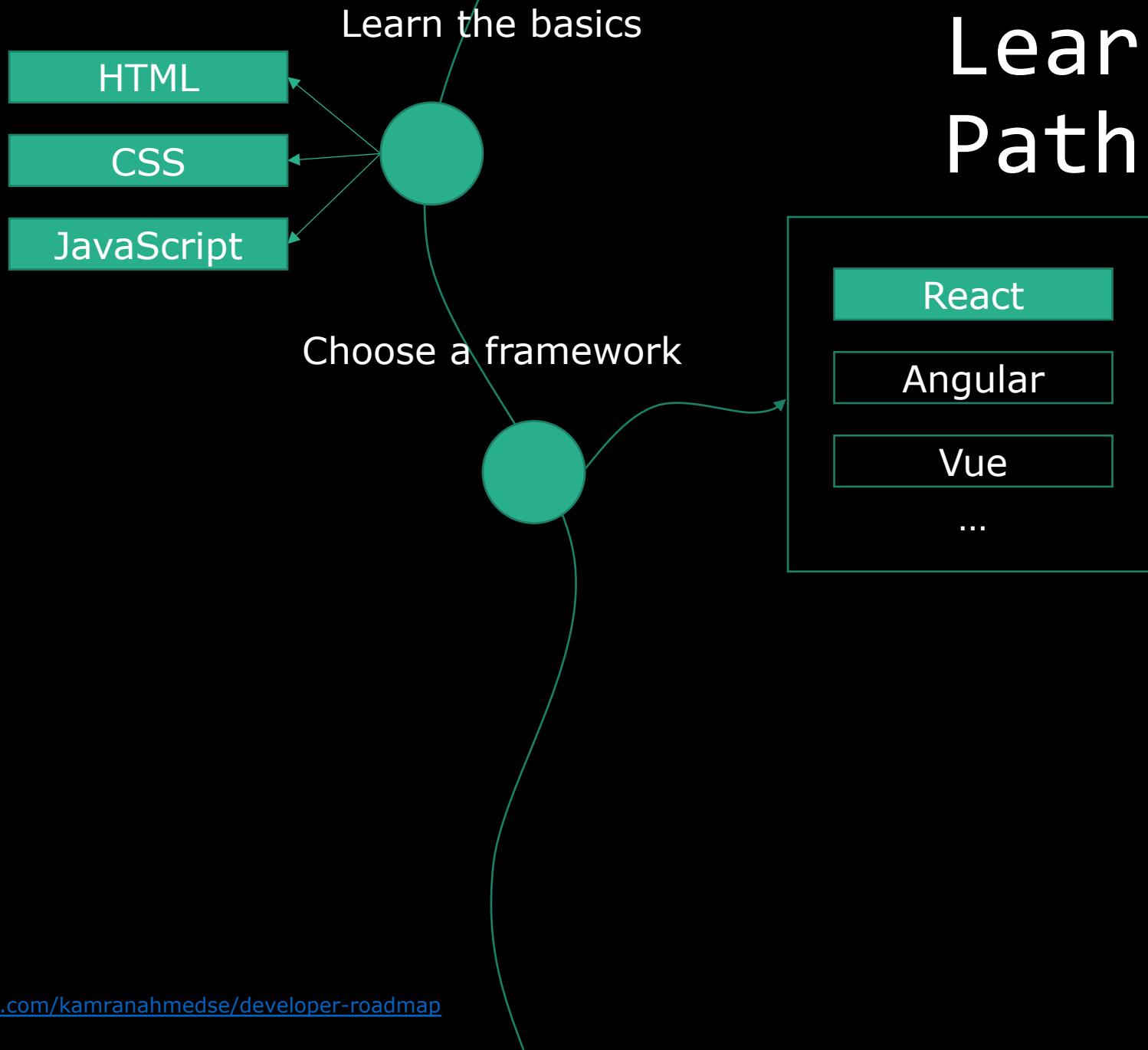


JavaScript

- Behaviour



Learning Path



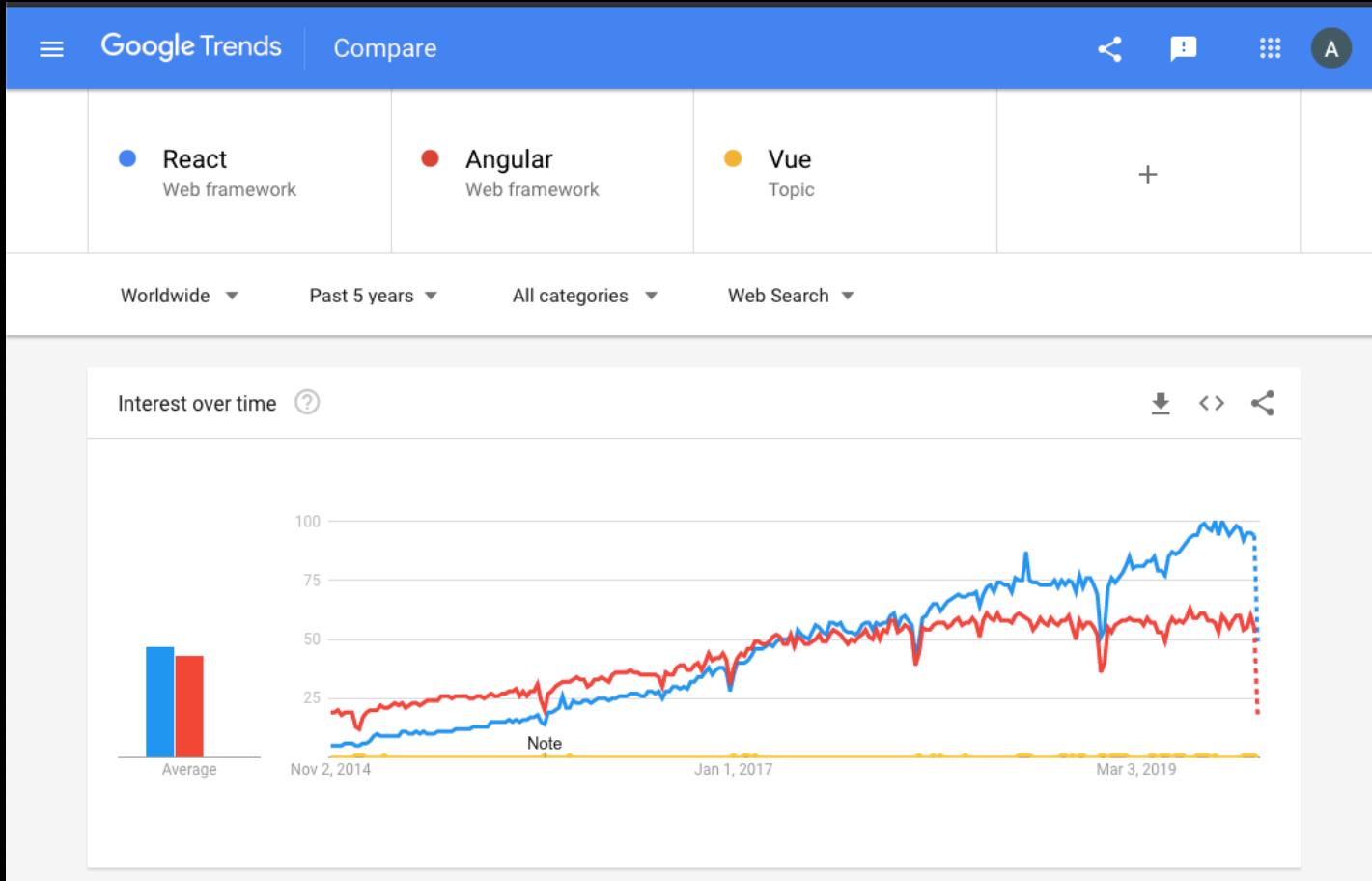
React framework

A JavaScript library for building interactive user interfaces

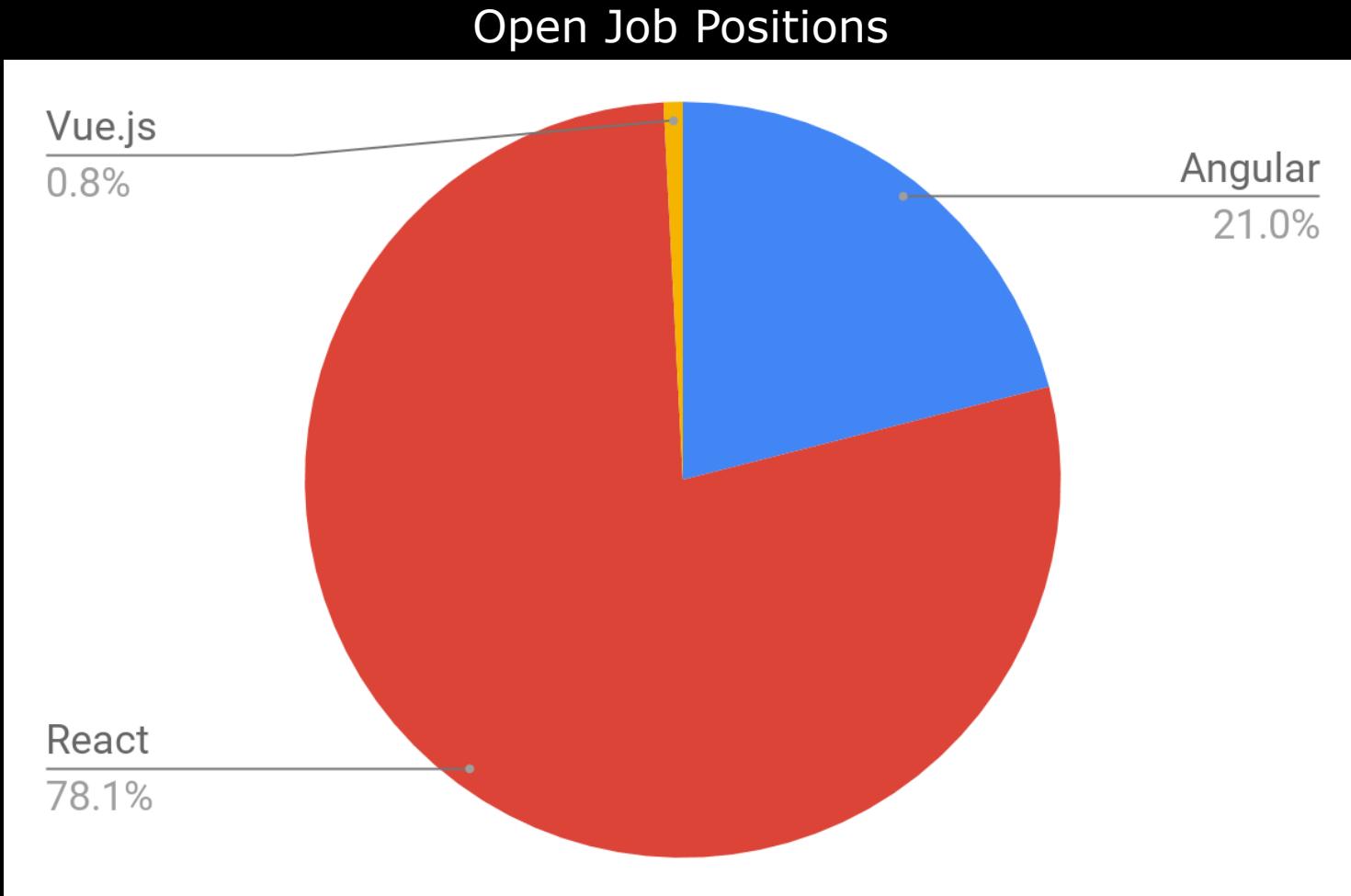
React framework

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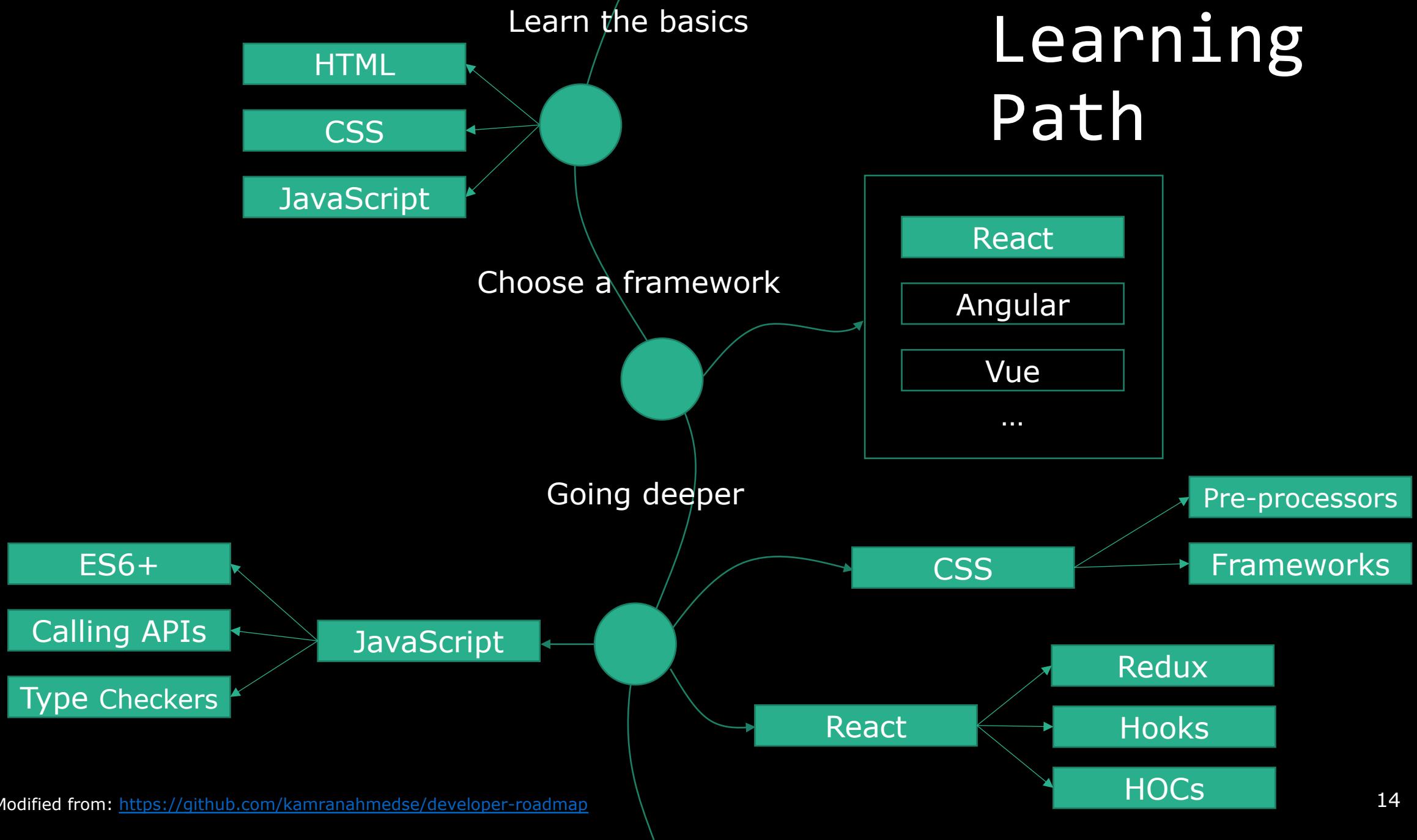
React framework



React framework



Learning Path



Basics of React

Basics of React

- Components
 - Props
 - State
- JSX

Components

- Building blocks
- Reusable

Components



Components

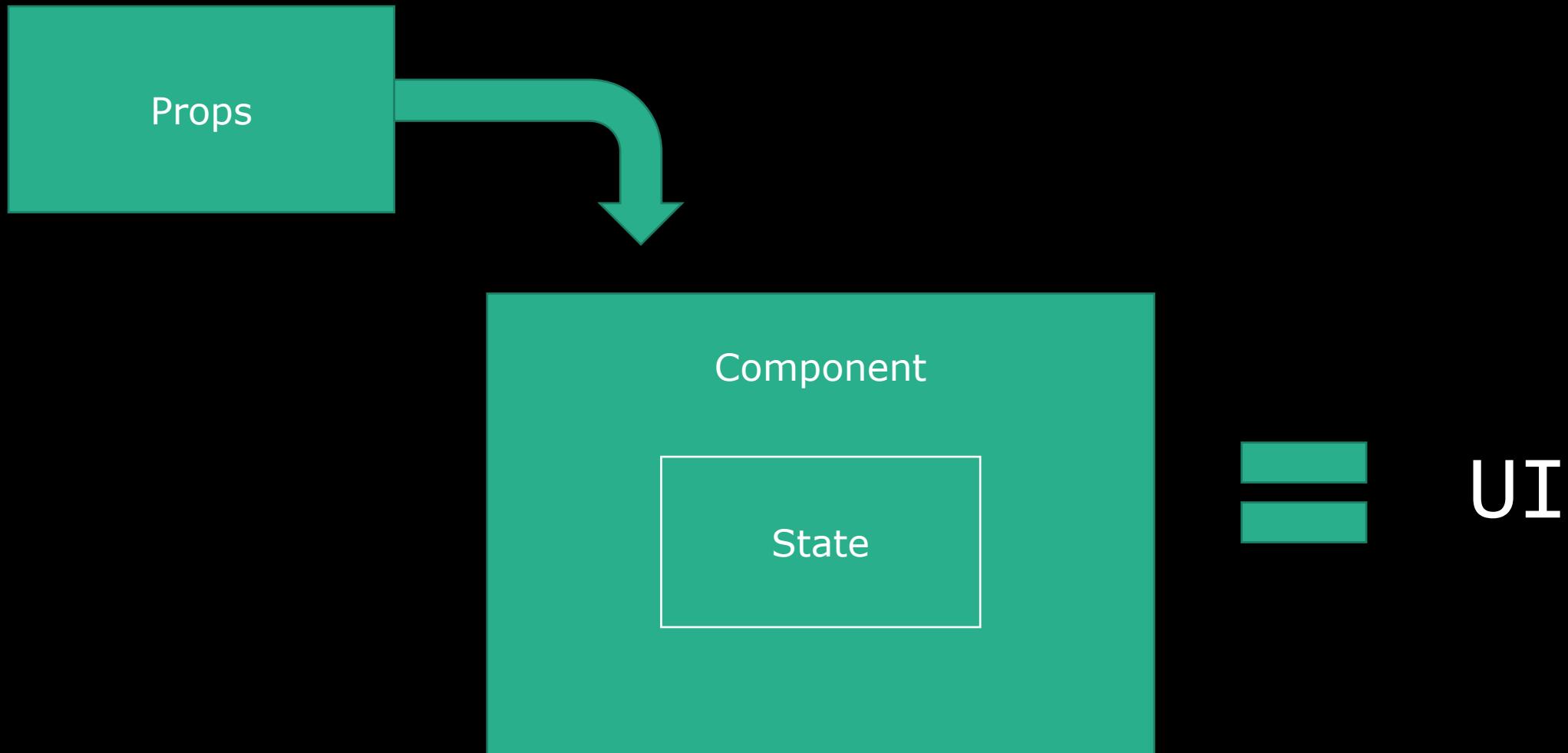
Props

- External inputs
- “Messages”

State

- Internal information store
- “Memory”

Components



JSX

- HTML + JavaScript
- Structure + Behaviour
- Write and add HTML easily in React
- Just one file for HTML + JavaScript!

HTML

- HTML - Hypertext Markup Language
- Structure content using tags

```
<h1>Hello, Stranger.</h1>
```

Opening Tag

Closing Tag

JavaScript

- JavaScript – Programming language

```
formatName(user)
```

JSX

- HTML + JavaScript
- JavaScript is placed in curly braces

```
<h1>Hello, {formatName(user)}!</h1>;
```

—

—

That's all you need to
know to start building!

Let's get started!

Setting up your environment

- Download
 - Atom (<https://atom.io>)
 - Node v13.0.1 (<https://nodejs.org>)
- Install

Setting up your environment 2

- Open
 - (mac) Terminal
 - (win) Command Line
- Change directory
`cd Desktop`
- Create a skeleton project
`npx create-next-app --registry=https://registry.npm.taobao.org`
 - Project name: tictactoe
`cd tictactoe`

Setting up your environment 3

- Open Atom

```
atom .
```

- Run project

```
npm run dev
```

Keep Learning

Thank You