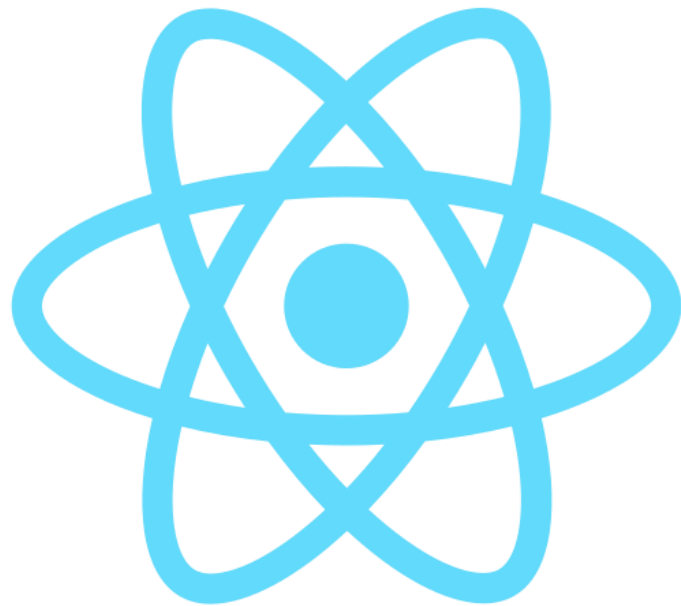




# Introduction to React

## React Session-1



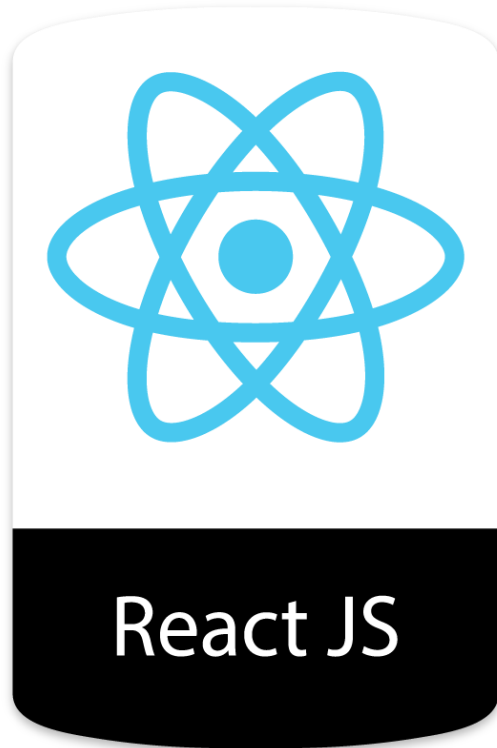
# Table of Contents



- ▶ What is React?
- ▶ Who uses React?
- ▶ Why should I use React?
- ▶ How does React work?
- ▶ Setup Development Environment



Did you finish  
**React**  
pre-class  
material?





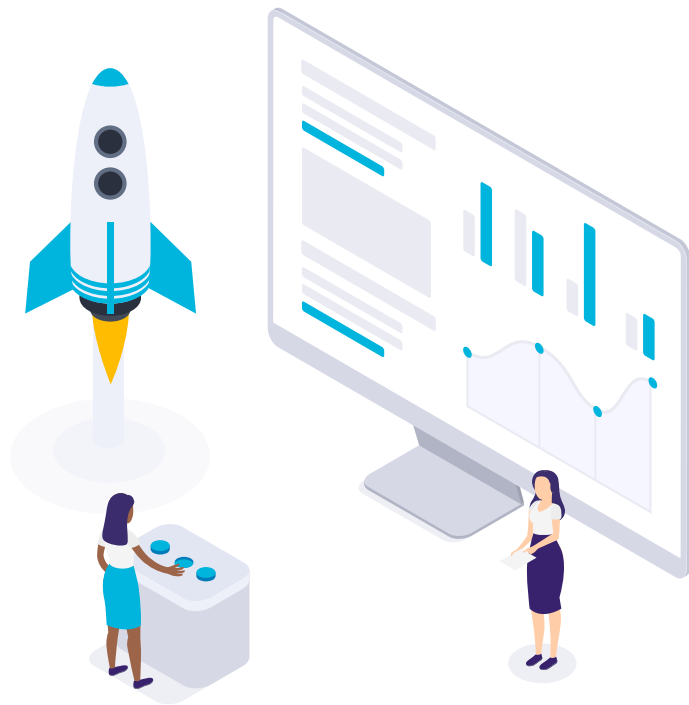
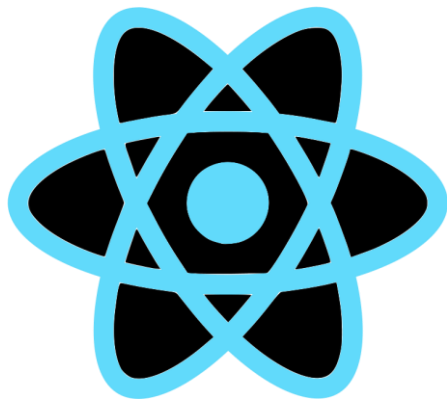
# Is React a framework?





1

# What is React?



# What is React?



[www.reactjs.org](http://www.reactjs.org)

Javascript library for building user interfaces

Developed by Facebook at 2011.

Component-based and fast

React uses ES6 and Babel



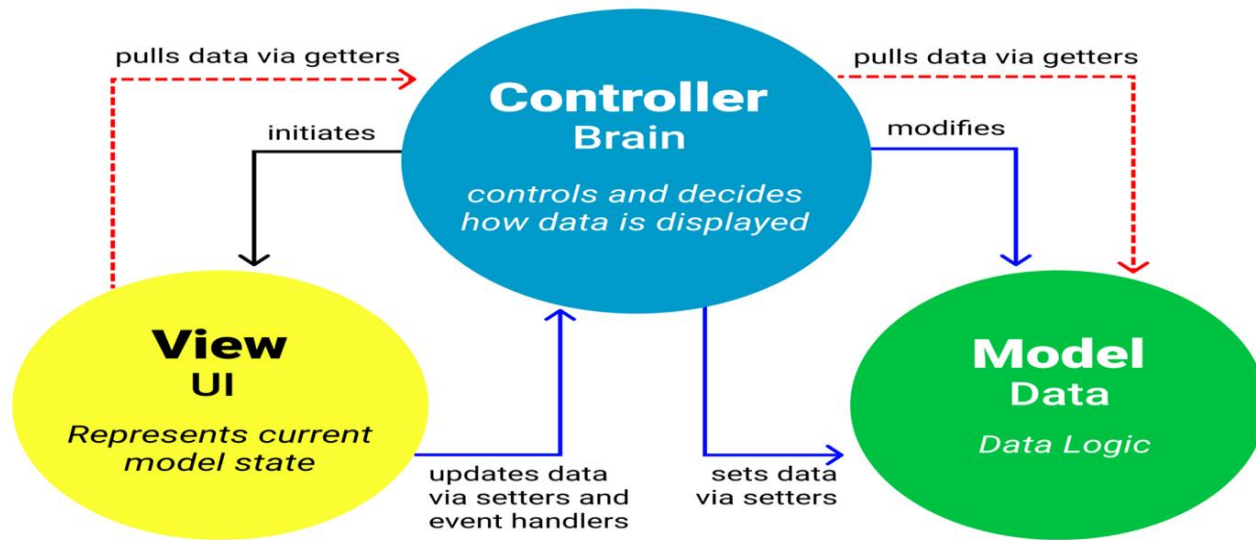


# What is React?



## MVC Architecture Pattern

**MVC**



**V : ReactJS**



2

# Who uses React?







# Who uses React?

8739 companies reportedly use **React** in their tech stacks, including **Uber**, **Airbnb**, and **Facebook**.






3

# Why should I use React?

# Why should I use React?



 npm trends

angular vs react vs vue

Enter an npm package...

angular x

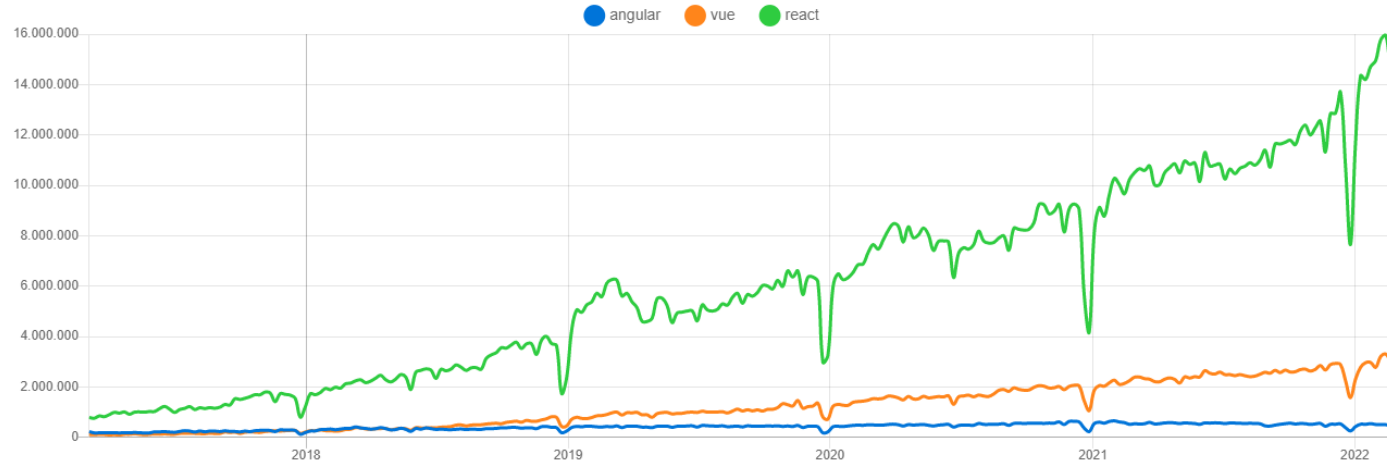
vue x

react x

+ @angular/core

+ ember-source

Downloads in past 5 Years ▾



<https://www.npmtrends.com/angular-vs-vue-vs-react>

# Why should I use React?



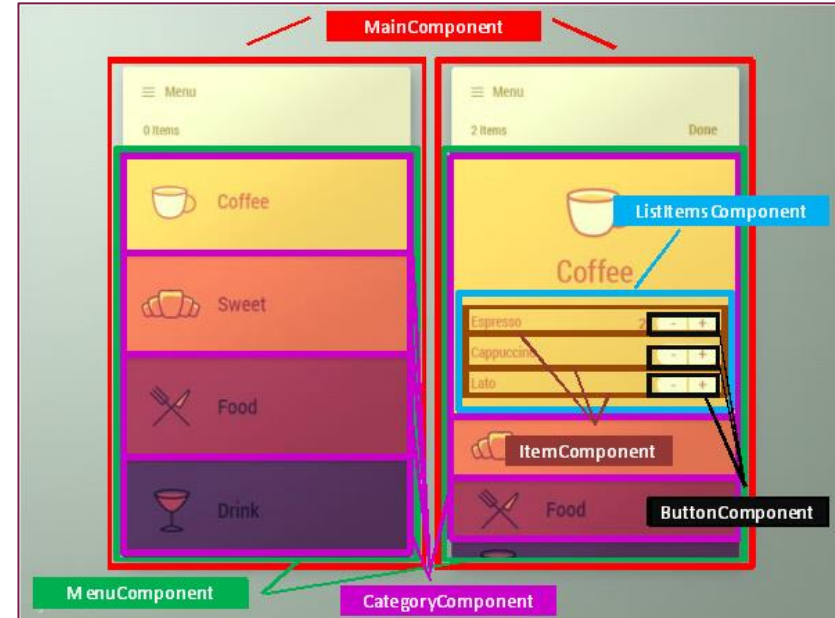
Easy to read and understand views

Concept of components is the **future** of web development

If your page uses a lot of fast updating data or real time data - React is the way to go

Once you and your team is over the React's learning curve, developing your app will become a lot faster

It is maintained by Facebook and a community of individual developers and companies.

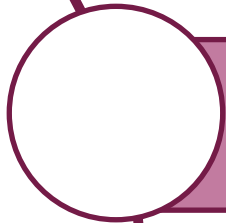




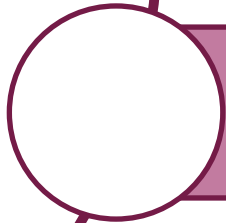
# 4 How does React work?



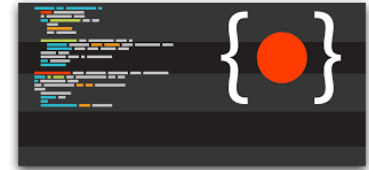
# How does React work?



React creates a VIRTUAL DOM in memory.

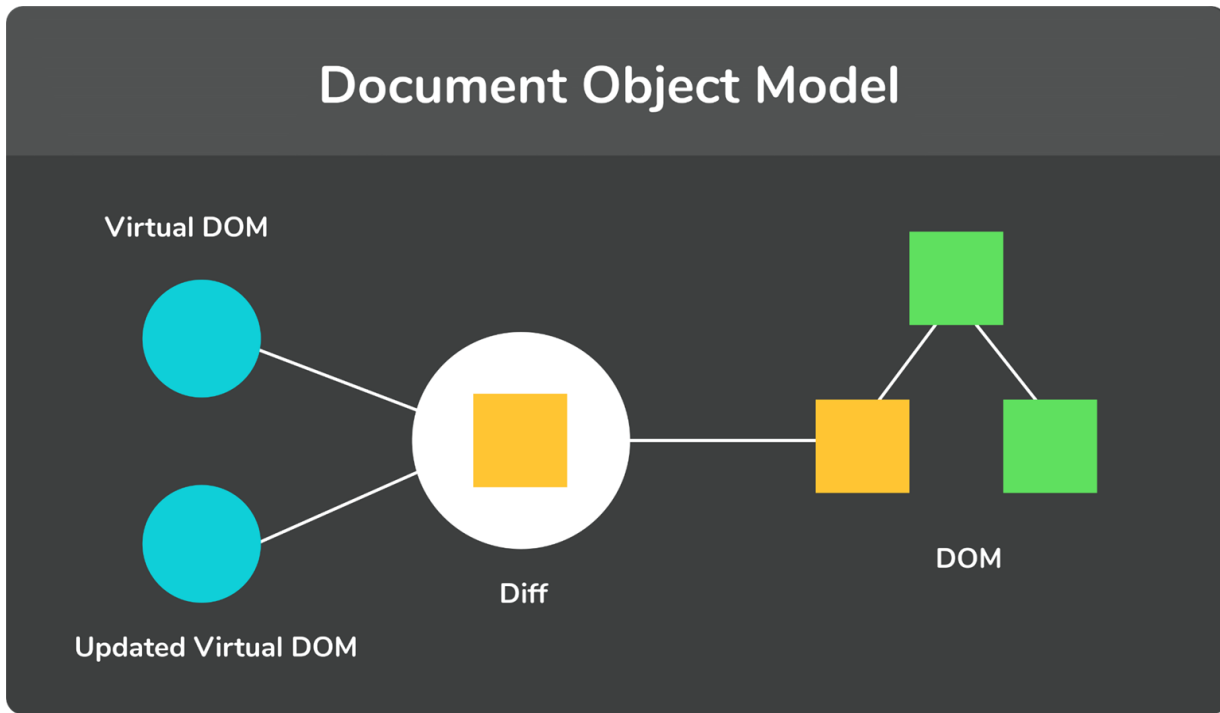


React only changes what needs to be changed!





# How does React work?

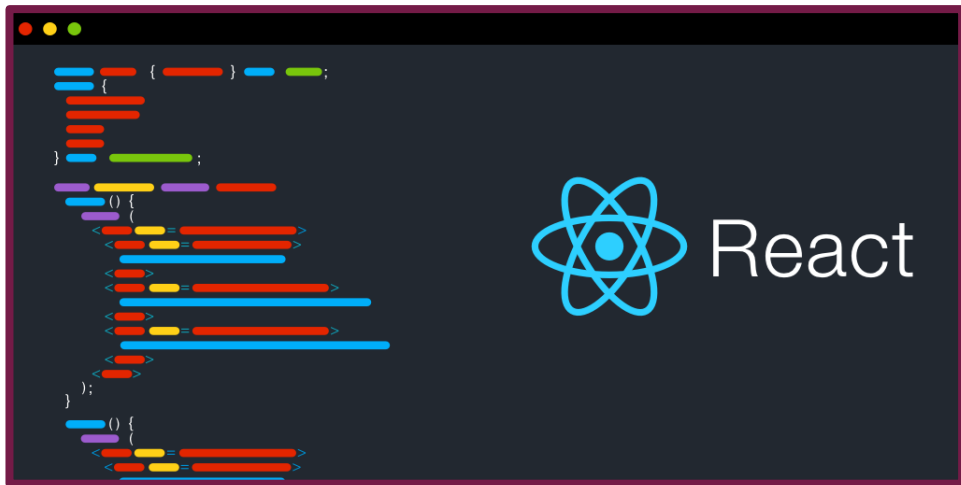


<https://www.youtube.com/watch?v=BYbgopx44vo>



5


# Setup Development Environment







# Setup Development Environment

- Download and install NodeJS (Already installed) 
- Node.js is an open-source, cross-platform, JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser.
- We use package managers with nodejs to install libraries

**npm**

installed  
with nodejs



We have to install  
`npm i -g yarn`

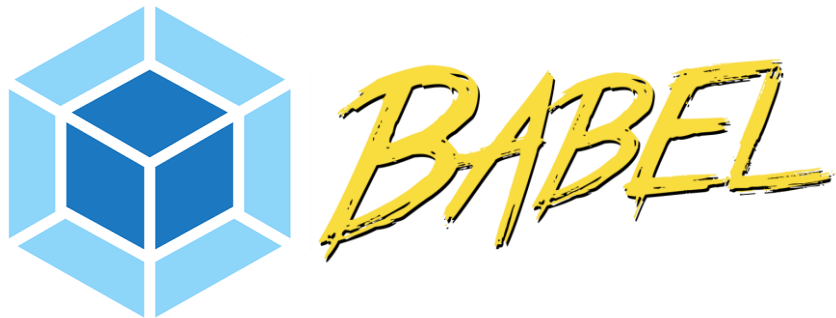
**Yarn** is a new secure dependency management client for JavaScript. **Yarn** is an open source collaboration between **Facebook**, **Exponent**, **Google**, and **Tilde**.



# Setup Development Environment

- `create-react-app` is a project aimed at getting you up to speed with React in no time.

It provides a ready-made React application starter, so you can dive into building your app without having to deal with **Webpack** and **Babel** configurations.

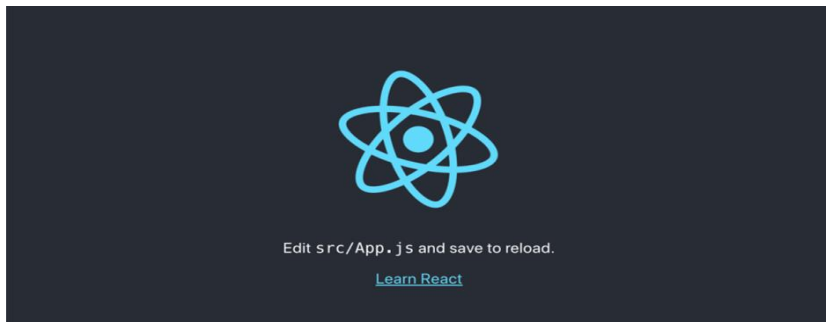




# Setup Development Environment

<https://create-react-app.dev/docs/getting-started/>

- `npx create-react-app my-first-app`  
(Alternatively: `yarn create react-app my-first-app`)
- `cd my-first-app`
- `npm start` (or `yarn start`)



If you see this page on your screen, you have installed ReactJS app successfully. Congrats!





# Folder-File Schema

- node\_modules
- public
- src
- package.json(file)
- .gitignore(file)

```
▸ node_modules
▸ public
  ★ favicon.ico
  <> index.html
  {} manifest.json
▸ src
  # App.css
  JS App.js
  JS App.test.js
  # index.css
  JS index.js
  📁 logo.svg
  JS registerServiceWorker.js
  💎 .gitignore
  {} package-lock.json
  {} package.json
  ⓘ README.md
```

# VSCode Extensions For React



The screenshot shows the VS Code extension marketplace page for the extension 'ES7 React/Redux/GraphQL/React-Native snippets' by dsnajder. The extension is rated 4.25/5 with 32 reviews. It has 265,517 installs and 119,875,93 downloads. The description states it provides simple extensions for React, Redux, and GraphQL in JS/TS with ES7 syntax. The installation status shows it is installed and enabled globally.

**ES7 React/Redux/GraphQL/React-Native snippets** `dsnajder.es7-react-js-snippets`  
dsnajder | 2,655,409 | ★★★★★ | Repository | v3.1.1  
Simple extensions for React, Redux and GraphQL in JS/TS with ES7 syntax  
Disable | Uninstall | This extension is enabled globally.

[Details](#) [Feature Contributions](#) [Changelog](#)

Visual Studio Marketplace **v3.1.1** installs **2655517** downloads **11987593** rating **4.25/5 (32)**

## VS Code ES7 React/Redux/React-Native/JS snippets

JavaScript and React/Redux snippets in ES7+ with Babel plugin features for [VS Code](#)

### Installation

Visual Studio Marketplace

Launch *Quick Open*:

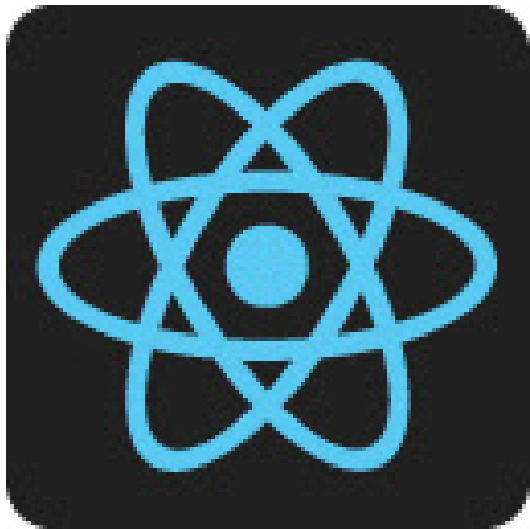
- ES7 React/ Redux/ GraphQL/ React-Native snippets



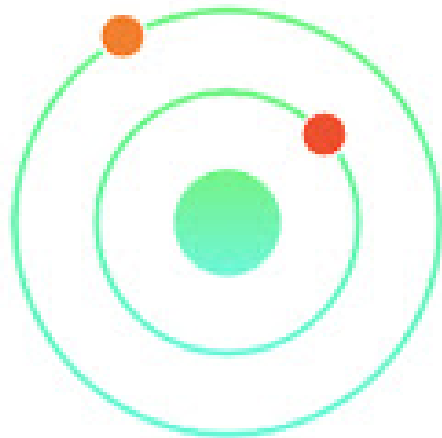
# Chrome Extensions For React



## React Developer Tools



## Redux DevTools



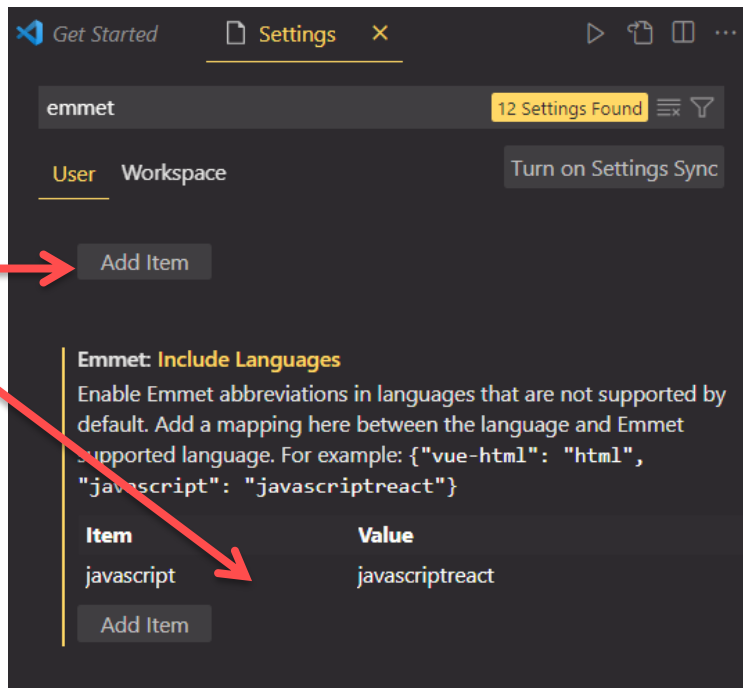


# VSCoDe For React



- We can configure emmet for our react Project

We can add  
new item for  
react





# Last Notes...

- You should install or prepared a ReactJS project before every lesson.
- In this way, we don't wait anybody for installing new project.







# Last Notes...

You can access of  
inclass codes in our  
github. You can copy  
from there.

The screenshot shows a GitHub repository page for 'Pizza Restaurant Website'. The repository is owned by 'edwardBenedict' and has 2 commits. The file list includes 'public', 'src', '.gitignore', 'README.md', 'package.json', and 'yarn.lock', all from the 'third commit' 4 months ago. The 'README.md' file is selected, showing the title 'Getting Started with Create React App'. The content states the project was bootstrapped with 'Create React App' and lists available scripts, including 'yarn start'. The right sidebar shows the repository name, a README link, no releases, no packages, and a language distribution bar for JavaScript (89.3%) and HTML (10.7%).

main 1 branch 0 tags Go to file Add file Code

edwardBenedict third commit 46822c5 on Nov 24, 2020 2 commits

public	third commit	4 months ago
src	third commit	4 months ago
.gitignore	third commit	4 months ago
README.md	third commit	4 months ago
package.json	third commit	4 months ago
yarn.lock	third commit	4 months ago

README.md

## Getting Started with Create React App

This project was bootstrapped with [Create React App](#).

### Available Scripts

In the project directory, you can run:

```
yarn start
```

Runs the app in the development mode.  
Open <http://localhost:3000> to view it in the browser.

About Pizza Restaurant Website

Readme

### Releases

No releases published  
[Create a new release](#)

### Packages

No packages published  
[Publish your first package](#)

### Languages

JavaScript 89.3% HTML 10.7%



# THANKS!

## Any questions?

