



The App Brewery

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The App Brewery

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# Web Development Course Resources List

## Section 1: Front-End Web Development

- [Download the Course Syllabus](#)
- [App Brewery Cornell Notes Template](#)
- [Submarine Cable Map](#)
- [Google Chrome Browser](#) (recommended)
- [Atom Text Editor](#) (recommended)
- [List of Atom Plugins](#)
- [VS Code Text Editor](#) (good alternative)
- [VS Code Extensions](#)

## Section 2: Introduction to HTML

- [HTML Cheatsheet](#) by Stanford University
- Experiment with HTML code on [codepen.io](#)
- [The Adventures of Sherlock Holmes](#) on Gutenberg.org
- [MDN documentation](#) on headings
- [W3Schools documentation](#) on headings
- Alternative reference [devdocs.io](#)
- Use the [Wayback Machine](#) to find out what websites used to look like in the olden days

- Professor [Thomas H. Cormen's Personal Site](#) (co-author of Introduction to Algorithms)
- Professor [John Kleinberg's Personal Site](#) (developed the HITS algorithm for web search)
- Professor Emeritus [Donald Knuth's Personal Site](#) (author of the Art of Computer Programming)
- Useful Atom [keyboard shortcuts](#)
- See what the emmet package can do on their [cheat sheet](#)
- List of [UTF-8 characters](#)
- See encoding differences on Windows symbol charts (e.g., [Greek](#) vs [Arabic](#))
- See all unicode characters with a map on [unicode-table.com](#)
- Joel Spolsky on [the absolute minimum any developer needs to know about unicode](#)
- Difference between the HTML5 [emphasis](#) vs [italicise](#) tags
- Hyperlinks and [the Wikigame](#)
- Stanford [HTML Cheatsheet](#)
- A beautiful example of an online CV [by Pascal Van Gemert](#)

### Section 3: Intermediate HTML

- [Pascal Van Gemert's Online CV](#)
- [MDN Table Documentation](#)
- [MDN Form Documentation](#)
- [MDN Input Documentation](#)
- [Publish your website using Github Pages](#)

### Section 4: Introduction to CSS

- [Stanford CSS Cheatsheet](#)
- [Toasty Technology classic 90s Style Website](#)
- [Sean Halpin's beautiful personal website](#)

- [MDN documentation on background colour](#)
- [Curated colour palettes on colorhunt.co](#)
- [Colour palette used in lectures](#)
- [Table of named colours on MDN](#)
- [Overview of default CSS applied by the browser](#)
- [MDN documentation on border-styles](#)
- [devdocs.io on CSS height](#)
- [W3Schools documentation on CSS Text](#)
- [Download the Debugging Problem Starting Files](#)
- [Download the Bacon Fan Site Starting Files](#)
- [MDN CSS Reference](#)
- [Emojipedia broccoli emoji](#)
- [CSS Properties and Pseudoclasses Reference \(MDN\)](#)
- [MDN :hover Documentation](#)

## Section 5: Intermediate CSS

- [Sean Halpin's beautiful personal website](#)
- [Create a Favicon with favicon.cc](#)
- [My colours from colorhunt](#)
- [Markus Vogl Interactive Box Model Demo](#)
- [Download the CSS-My Site Images](#)
- [Is the img element block level or inline level?](#)
- [MDN margin documentation](#)
- [W3Schools documentation on Web Safe Fonts](#)

- [cssfontstack.com](https://cssfontstack.com)
- [Google Fonts](https://fonts.google.com)
- Download the [StubCode.html](#) file
- [Lorem Ipsum Generator](https://loremipsum.com/)
- [flaticon.com](https://flaticon.com)
- [giphy.com](https://giphy.com)
- [MDN CSS color property documentation](https://developer.mozilla.org/en-US/docs/Web/CSS/color-property)
- [MDN font-weight documentation](https://developer.mozilla.org/en-US/docs/Web/CSS/font-weight)
- [css3buttongenerator.com](https://css3buttongenerator.com)
- Completed Personal Site Project

## Section 6: Introduction to Bootstrap 4

- [Codeply: Use Bootstrap in an Online Editor](#)
- [Bootstrap Homepage](#)
- [Bootstrap Examples](#)
- [How to Install Bootstrap](#)
- [Submarine Cable Map](#)
- [Websites featured on awwwards.com](#)
- [Design patterns on ui-patterns.com](#)
- [Websites on dribbble.com](#)
- [Templates on sneakpeekit.com](#)
- [Wireframing with balsamiq](#)
- [Bootstrap Navbar](#)
- [Bootstrap Colour names](#)

- [Bootstrap NavBar Codeply](#)
- [Bootstrap Grid Codeply](#)
- [TinDog Starting Files](#)
- [Bootstrap Layout Grids](#)
- [Google Fonts: Montserrat](#)
- [Google Fonts: Ubuntu](#)
- [Bootstrap Containers](#)
- [Bootstrap Buttons](#)
- [Apple Icon on Font Awesome](#)
- [Hint: CSS Transform Function](#)
- [Need sample text? Use a lorem ipsum generator: \[loremipsum.io\]\(https://loremipsum.io\)](#)

## Section 7: Intermediate Bootstrap

- [Bootstrap Carousel](#)
- [Bootstrap Card](#)
- [Cards Pricing Example](#)
- [Bootsnipp.com Examples](#)
- [Download Stacking Order Flowchart](#)
- [Z-Index Codeply Example](#)
- [Mobile Friendly Test](#)
- [TinDog Completed Website Files](#)

## Section 8: Web Design School - Create a Website that People Love

- [Penny Juice's Website](#)
- [Penny Juice Rebranded](#)

- Curated colour palettes on [Color Hunt](#)
- [Adobe Color Wheel](#)
- Design Challenges on [Daily UI](#)
- Page inspirations on [Collect UI](#)
- Build a design using [canva.com](#)

## Section 9: Javascript

- [The History of Internet Explorer](#) Comic Strip
- Writing Good [Javascript Guidelines](#)
- [Karel Online IDE](#)

## Section 10: Intermediate Javascript

- [Randomness](#) -video by Khan Academy
- [Why can't programmers program?](#) A blog post from Coding Horror
- [Now that's what I call a Hacker.](#) The legendary story retold in English.
- [The original story](#) from above link in Russian.
- [Fibonacci challenge](#) Flow Chart

## Section 11: The Document Object Model (DOM)

- [HTML Tree Generator](#)
- [Download the Starting Files to the DOM Challenge](#)

## Section 12: Boss Level Challenge 1 - The Dice Game

- [Download the Starting Files to the Dice Challenge](#)
- [Download the completed Dice Challenge](#)
- [DOM Style Javascript property names](#)

## Section 13: Advanced Javascript and DOM Manipulation

- [Download the Starting Files to the Drum Kit](#)
- [Download the Completed Files to the Drum Kit](#)

## Section 16: The Unix Command Line

- [Download Hyper Terminal](#)
- For Windows Users: [Download Git](#)
- For Windows Users: [Hyper Configurations](#)
- [Learn enough command line to be dangerous](#)

## Section 18: Node.js

- [Download Node.js](#)
- [Node API Documentation](#)
- Node Documentation on [Exports & the Module Object](#)
- MDN Docs on [Javascript Objects](#)
- Katacoda [NodeJS Playground](#)

## Section 19: Express.js with Node.js

- [Express Documentation](#)
- [List of HTTP Status Codes](#)

## Section 20: APIs - Application Programming Interfaces

- [UK Police API Documentation](#)
- [murdermap.co.uk](#) uses the Police API to plot crime
- The [Kanye Rest](#) API Endpoint
- Parameters and Paths on the [SV443 Joke API](#)

- [Postman API Tool](#)
- [OpenWeatherMap API](#)
- [W3Schools JSON vs. XML](#)
- [The Rise and Rise of JSON](#)
- [Chrome Browser Add-on Json Viewer Pro \(Awesome was sold to another owner\)](#)
- [Node HTTPS Module Docs](#)
- [HTTP Status Codes](#)
- [HTTP Status Dogs](#)
- [Criptii Hexcadecimal Converter](#)
- [Bootstrap Sign In Example](#)
- [Get the Bootstrap CDN](#)
- [Mailchimp Getting Started](#)
- [Mailchimp API Reference](#)
- [Mailchimp List Documentation](#)
- [The Bootstrap Jumptron](#)
- [Deploy to Heroku](#)
- [Heroku Node.js Documentation](#)
- [Sign up to our Newsletter \(if you like\)](#)

## Section 21: Git, Github and Version Control

- [Download Git for Windows and Mac](#)
- [Download the Git Cheatsheet](#)
- [Download the Git Quick Reference](#)
- [Gitignore and the absence of NPM Modules on GitHub Projects](#)



## Section 22: EJS

- [app.js Starting File](#)
- [EJS documentation](#) (e.g., on tags)
- [Documentation on var](#)
- [Documentation on let](#)
- [Documentation on const](#)
- [Download styles.css for Todolist v1 App](#)

## Section 23: Boss Level Challenge 3 - Blog Website

- [Starting files for the challenge](#)
- [Completed Website Final Code](#)

## Section 24: Databases

- Kristof Kovacs' [database comparison](#)
- A bit of context: [Internet Live Stats](#)

## Section 25: SQL

- W3Schools [on SQL](#)
- SQL Playground on [sqliteonline.com](#)
- [Data Types in SQL](#)
- [Primary Keys in SQL](#)
- [Foreign Keys in SQL](#)
- [Inner Joins](#)
- [Completed SQL demo project](#)

## Section 26: MongoDB

- [How to install MongoDB on Mac](#)
- [How to install MongoDB on Windows](#)
- [MongoDB installation documentation for MacOS](#)
- [MongoDB Docs on CRUD operations](#)
- [MongoDB Query Operators](#)
- [MongoDB Update Operations](#)
- [MongoDB NodeJS Driver](#)

## Section 27: Mongoose

- [Mongoose: an alternative to the native MongoDB driver](#)
- [Mongoose documentation on the Model](#)
- [Mongoose documentation on data validation](#)

## Section 28: Putting Everything Together

- [Todolist v2 starting files](#)
- [Mongoose findByIdAndRemove\(\) method](#)
- [MDN on inputs of type "hidden"](#)
- [Removing items from an array with the MongoDB \\$pull operator](#)
- [How to capitalise Strings using Lodash](#)
- [Todolist v2 completed web app](#)

## Section 28: Deploying Your Web Application

- [Sign up and deploy a free cluster with MongoDB Atlas](#)
- [Heroku documentation on getting started with NodeJS](#)
- [Deploying an existing application on Heroku](#)

## Section 30: Boss Level Challenge 4 - Blog Website Upgrade

- [Download the starting files](#)
- [Download the Completed Project](#)

## Section 31: Build Your Own RESTful API from Scratch

- [ExpressJS Route Parameters](#)
- [Lodash Utility Library](#)
- [Chained Route Handlers Challenge Solution](#)
- [Download the Completed Project](#)

## Section 32: Authentication & Security

- [Download the Starting Files](#)
- [cryptii.com](#)
- [Numberphile Video on Enigma Part 1 and Part 2](#)
- [What are Rainbow Tables](#)
- [How do Rainbow Tables Work?](#)
- [Bad Things Happen When You Don't Secure Your API Keys](#)
- [Developer AWS gets used by Litecoin miners](#)
- [gitignore and directories](#)
- [MDN Array forEach\(\) loop](#)
- [Check if your password is compromised](#)
- [Plaintext Offenders](#)
- [Password Strength Checker](#)
- [Hacker Typer](#)
- [Install NVM](#)

- [Passport](#)
- [Google Developers](#)

## Section 33: React.js

### Introduction to Code Sandbox

[codesandbox.io](https://codesandbox.io)

### Introduction to JSX

START

END

### JSX Code Practice

START

END

### Javascript Expressions in JSX & ES6 Template Literals

START

END

Statements vs. Expressions

### Javascript Expressions in JSX Practice

START

END

### JSX Attributes & Styling React Elements

START

Standard HTML attributes

Lorem Picsum

END

## **Inline Styling for React Elements**

START

CSS Property List

END

## **React Styling Practice**

START

END

## **React Components**

START

Airbnb Style Guide for React

END

## **React Components Practice**

START

END

## **Javascript ES6 - Import, Export and Modules**

START

Node require() vs ES6 import/export

END

## Javascript ES6 Import, Export and Modules Practice

START

END

## [Windows] Local Environment Setup for React Development

Nodejs.org

VS Code

Babel syntax highlighting for code editors

Sublime Babel by Josh Peng - VSCode

Create a new react app

Where to get support if you get stuck

## [Mac] Local Environment Setup for React Development

Nodejs.org

VS Code

Babel syntax highlighting for code editors

Sublime Babel by Josh Peng - VSCode

Create a new react app

Where to get support if you get stuck

## Keeper App Part 1 Challenge

START

## Keeper App Part 1 Solution

END

## React Props

START

END

## React Props Practice

START

END

## React DevTools

START

Chrome React Dev Tools

Firefox React Dev Tools

END

## Mapping Data to Components

START

END

## Mapping Data to Components Practice

START

Emojimeanings.net

The Description List Element

END

## Javascript ES6 Map/Filter/Reduce

START

Filter

Map

Reduce

Find

FindIndex

Substring

END

## Javascript ES6 Arrow functions

START

Arrow Functions

END

## Keeper App Project - Part 2



START

END

## **React Conditional Rendering with the Ternary Operator & AND Operator**

START

Single Responsibility Principle

Ternary Operator Docs

Using the Logical && in React

END

## **Conditional Rendering Practice**

START

END

## **State in React - Declarative vs. Imperative Programming**

Demo END

## **React Hooks - useState**

START

useState() Docs

END

## **useState Hook Practice**

START

END

## Javascript ES6 Object & Array Destructuring

START

Javascript Destructuring

## Javascript ES6 Destructuring Challenge Solution

END

## Event Handling in React

START

HTML Event Attributes

END

## React Forms

START

Controlled Components in Forms

END

## Class Components vs. Functional Components

State and Lifecycle

Intro to Hooks

Should I use Hooks, classes, or a mix of both?

Demo END

## Changing Complex State

START

Synthetic Events

END

## Changing Complex State Practice

START

END

## Javascript ES6 Spread Operator

START

Spread Syntax

JS ES6

END

## Javascript ES6 Spread Operator Practice

START

END

## Managing a Component Tree

START

Line Through CSS Property

Generating unique ids with the UUID Package

END

## **Managing a Component Tree Practice**

START

END

## **Keeper App Project - Part 3**

START

END

## **React Dependencies & Styling the Keeper App**

START

Material UI Icons

Material UI Core

Material UI Icons Documentation

Material UI Floating Action Buttons

Zoom Component Docs

Transparent Textures

END

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