


Chrome extensions

[Chrome extension](https://chrome.google.com/webstore/detail/doggy-tabs/bjjibkijcdpnhhmfajcbonojjppcpjp)  [\(https://chrome.google.com/webstore/detail/doggy-tabs/bjjibkijcdpnhhmfajcbonojjppcpjp\)](https://chrome.google.com/webstore/detail/doggy-tabs/bjjibkijcdpnhhmfajcbonojjppcpjp)

- These are tricky to learn at first, but are well worth the time - [once you learn them](#)  <https://developer.chrome.com/extensions>, you can find ideas to automate everything you do on the internet

Explore more public APIs and use one (or multiple) in a creative way similar to CP3.



Write a web page or application for a holiday gift for family/friends

More ideas in slides below...

Side Project Ideas (Continued)

If you are interested in...

... Biology





- Write a web application that teaches biology concepts through CSS/JS animations ([example](#)  <http://tabletopwhale.com/index.html>), [example](#)  <http://www.species-in-pieces.com/#>)
- Write a web page with a text area input and processes DNA/RNA/Amino Acid sequences (and or converts between each)
- Write an API that sends facts about animals/plants/other biology domains in JSON format

Side Project Ideas (Continued)

... Chemistry

- Write an interactive periodic table
- Write an application that balances chemical equations
- Write an application that calculates molecular weights of different compounds


... Linguistics

- Write a web page that translates English input into some other language/variation using your own code or a public API ([example \(YodaSpeak\) API](#)  <https://market.mashape.com/ismaelc/yoda-speak>)
- Write a webpage that randomly generates sentences in that grammar
- Write a web app that replaces common grammar errors in a text area input (client-side JS) or file (Node.js)
- Implement [this](#)  <https://xkcd.com/1288/> and [this](#)  <https://xkcd.com/1625/> and [this](#)  <https://xkcd.com/1679/>

Q: What are some ways to stay up-to-date with the latest web dev tools and trends?

Pro-tip: Don't try and learn it all :)

Follow a couple of blogs/feeds and stay up to day with 1-2 articles a week, just so that you have a sense of where things are and what recent things have happened (you can find some lists on the course resources page)

I highly recommend checking out [this example roadmap](#)  <https://codeburst.io/the-2018-web-developer-roadmap-826b1b806e8d> and seeing what you'd be interested in learning more about (focus on one thing at a time)

Q: When to consider packages, frameworks, and so on: (example) React, Polymer, Angular, Backbone, Vue, etc.

- Be patient, and take it a day at a time.
- Focus on one thing and learn it well, and focus early on building a strong foundation on web development concepts.
- Projects will come, and most of the time there will be many options to choose from, usually constrained by your team/codebase requirements
- Most companies have their own framework, and you generally aren't required to know it.