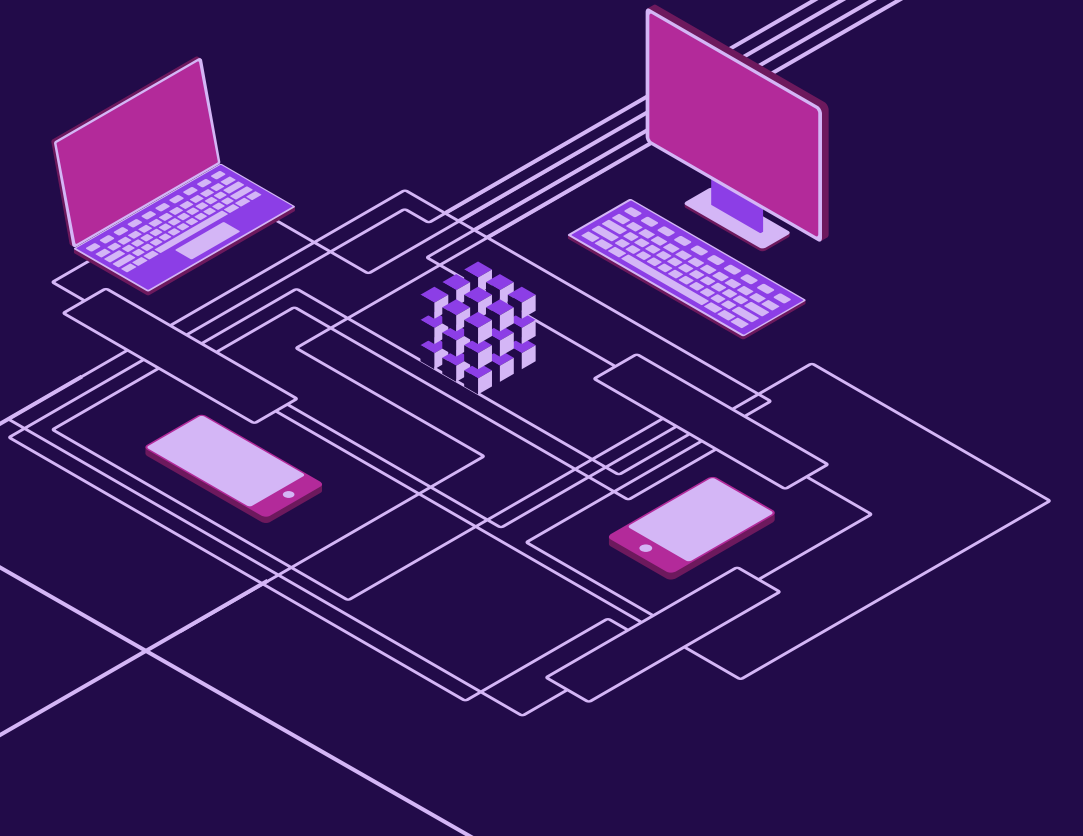


Chrome Extensions

4/24/2020 Hacker Hour



QUICK INTRODUCTION

- Hi, I'm Sam Lee!
- If you don't know me, this is what I look like ----->
- Sophomore majoring in CS and Cog Sci
- USACS Research Lead (also in WiCS and Blueprint)
- Experience: Former Research Assistant @ InfoSeeking
 - Worked on a web app that simplified information retrieval studies w/ a custom Chrome extension
 - It collected web browsing data, parsed through it, and pushed it to a database
 - Very fun



SOME PARTS OF AN EXTENSION

01

Manifest

Provides necessary info about your extension.

03

Content Script

Interacts with the web pages themselves.

02

Background Script

Interacts with the background (i.e. windows, tabs, etc.)

04

Popup

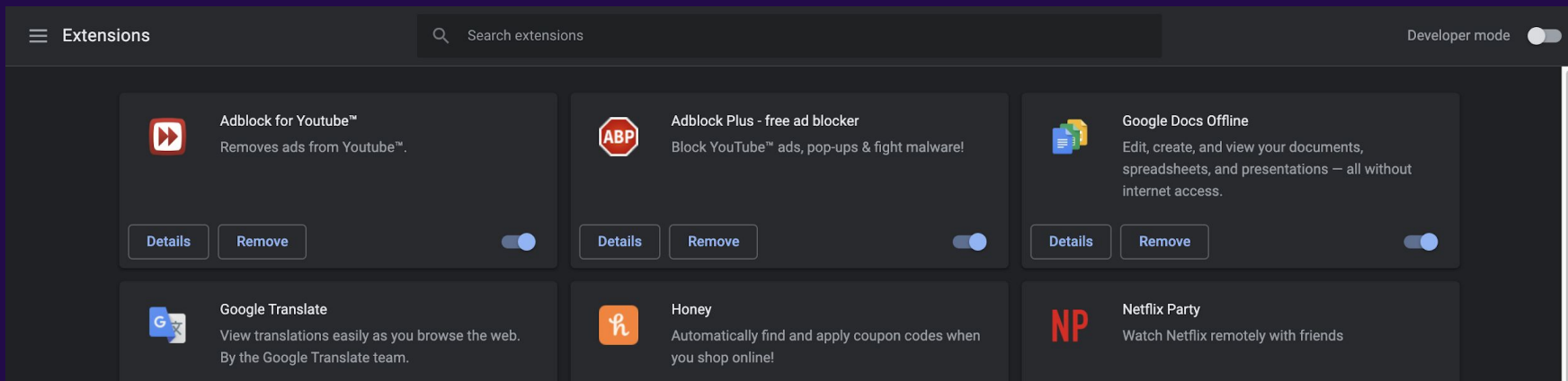
What appears when you click on the extension icon.

Today, we'll be making a simple Chrome extension that counts the number of tabs you have open and notifies you if it exceeds a certain amount.

GETTING STARTED

Go to *chrome://extensions*

- Turn **Developer Mode** on (see top left corner for toggle)
- You should see three buttons: **Load unpacked**, **Pack extension**, and **Update**



CREATE PROJECT

Open a text editor of your choice, and make a directory that has these four files:

- `manifest.json`
- `popup.html`
- `popup.js`
- `background.js`

(start with the manifest, then unpack your extension, then do everything else)

DEBUGGING

`console.log()` is your friend

BACKGROUND

- > Go to
`chrome://extensions`
- > Find your extension
- > Background page
- > Console

POPUP

- > Click extension icon
- > Right click in the popup box
- > Inspect
- > Console

CONTENT

- > Go to any content page
- > Right click anywhere
- > Inspect
- > Console

RESOURCES

- <http://github.com/SamanthaLLee/ChromeExtensionTutorial>
 - Slideshow & code
- <http://developer.chrome.com/extensions>
 - Tutorials, API breakdowns, and more
- <https://chrome.google.com/webstore/category/extensions>
 - Inspo
- Devpost
 - More inspo

QUESTIONS?

THANKS FOR JOINING!

Hope you all stay safe & happy :)

Feel free to reach out if you have more questions or if you just want to chat or something idc!!!

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Pretty much anywhere else: Samantha Lee

CREDITS: This presentation template was created by **Slidesgo**, including icons by **Flaticon**, and infographics & images by **Freepik**.

