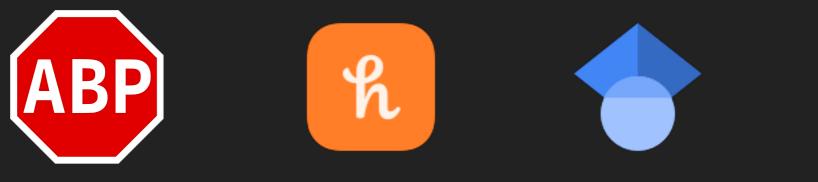
AKSHATH JAIN

WDW 2018

CHROME EXTENSIONS

CHROME EXTENSIONS?

A horrible way to add "functionality" to Chrome (actually pretty useful)

















BASIC STRUCTURE

```
RequiredFiles
— manifest.json
— popup.html
— popup.js

OptionalElements
— contentScripts.js
```

- backgroundScripts.js

MANIFEST.JSON

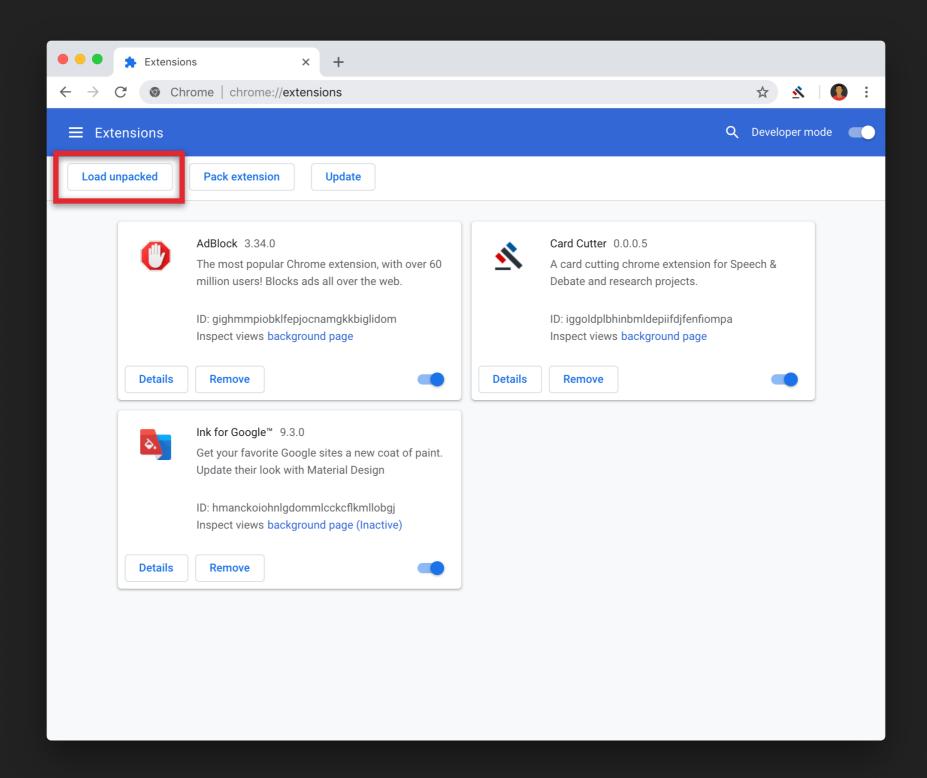
```
manifest.json
                                                                         UNREGISTERED
       manifest.json
         "name": "ImageManipulator",
         "description": "A tribute to CMU President Farnam Jahanian!",
         "version":"1.0",
         "manifest_version":2,
         "permissions":[
              "activeTab"
         "browser_action":{
              "default_popup":"popup.html"
```

LIVE DEMO

SETTING UP THE PROJECT

RUNNING YOUR EXTENSION

CHROME://EXTENSIONS



POPUP.HTML

```
UNREGISTERED
                                                o popup.html
       popup.html
     <!DOCTYPE html>
     <html>
     <head>
       <title>Memeoji</title>
       <style type="text/css">
         .button-insert{
           width: 50px;
           height: 30px;
           cursor: pointer;
           background-color: #abc;
           padding: 10px;
         .button-insert:hover{
           background-color: #bbb;
       </style>
       <script type="text/javascript" src="popup.js"></script>
    </head>
     <body>
       <h3>Insert Farnam Everywhere!</h3>
       <a class="button-insert" id="insert-button">INSERT</a>
    </body>
 26 </html>
```

POPUP.JS

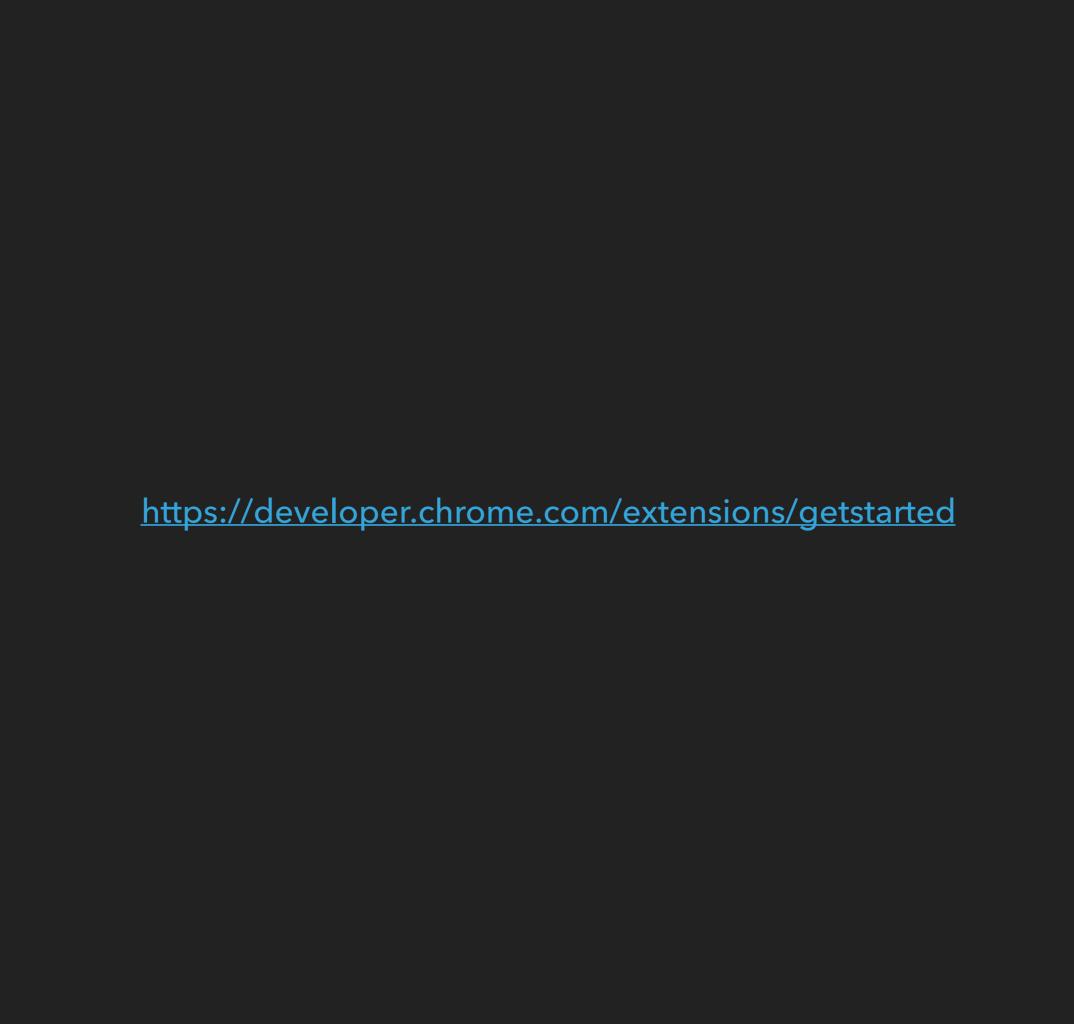
```
popup.js
                                                                                       UNREGISTERED
     popup.js
  Name: Akshath Jain
  Date: 10/26/18
4 Purpose: js for wdw chrome extension
  function main(){
     setupInsertButton();
  //function that adds click behavior to the insert button
   function setupInsertButton(){
     document.getElementById("insert-button").addEventListener("click", function(){
       chrome.tabs.executeScript({
       file: "contentScripts.js"
      });
    });
   document.addEventListener("DOMContentLoaded", function(){
    main();
  });
```

CONTENTSCRIPTS.JS

```
contentScripts.js
                                                                                                 UNREGISTERED
     contentScripts.js
2 Name: Akshath Jain
3 Date: 10/26/18
   farnamImageUrls = [
       "https://www.cs.cmu.edu/~farnam/images/Farnam-Jahanian.jpg",
       "http://web.eecs.umich.edu/~farnam/images/fj.jpg",
       "https://www.cmu.edu/news/stories/archives/2015/february/images/farnam-jahanian-400x25
   var images = document.getElementsByTagName("img"); //this is an array of images
   for(var i = 0; i < images.length; i++)</pre>
       images[i].src = farnamImageUrls[Math.floor((Math.random() * farnamImageUrls.length))];
```

LIVE DEMO

INTERFACE AND INTERACTION



LAB

Notes++