Creating a Chrome Extension

A Page Action Extension

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What We Are Building
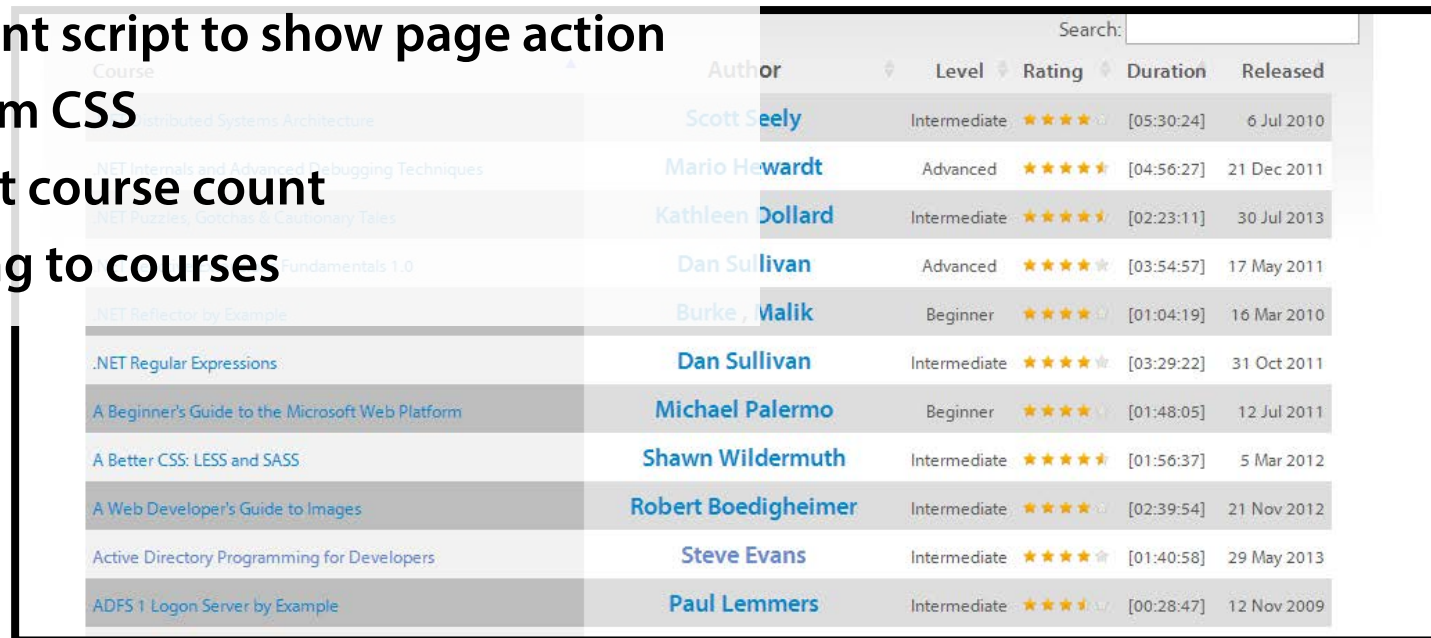
A Pluralsight helper extension

Breaking It Down

1. Create extension and manifest
2. Create the page action
3. Show the page action with an event page
4. Add content script to show page action
5. Add custom CSS
6. Implement course count
7. Add sorting to courses

Course	Author	Level	Rating	Duration	Released
Distributed Systems Architecture	Scott Seely	Intermediate	★★★★☆	[05:30:24]	6 Jul 2010
.NET Internals and Advanced Debugging Techniques	Mario Hewardt	Advanced	★★★★☆	[04:56:27]	21 Dec 2011
.NET Puzzles, Gotchas & Cautionary Tales	Kathleen Dollard	Intermediate	★★★★☆	[02:23:11]	30 Jul 2013
Fundamentals 1.0	Dan Sullivan	Advanced	★★★★☆	[03:54:57]	17 May 2011
.NET Reflector by Example	Burke , Malik	Beginner	★★★★☆	[01:04:19]	16 Mar 2010
.NET Regular Expressions	Dan Sullivan	Intermediate	★★★★☆	[03:29:22]	31 Oct 2011
A Beginner's Guide to the Microsoft Web Platform	Michael Palermo	Beginner	★★★★☆	[01:48:05]	12 Jul 2011
A Better CSS: LESS and SASS	Shawn Wildermuth	Intermediate	★★★★☆	[01:56:37]	5 Mar 2012
A Web Developer's Guide to Images	Robert Boedigheimer	Intermediate	★★★★☆	[02:39:54]	21 Nov 2012
Active Directory Programming for Developers	Steve Evans	Intermediate	★★★★☆	[01:40:58]	29 May 2013
ADFS 1 Logon Server by Example	Paul Lemmers	Intermediate	★★★☆☆	[00:28:47]	12 Nov 2009

We'll be adding capabilities to Pluralsight web pages with our extension

Page Actions
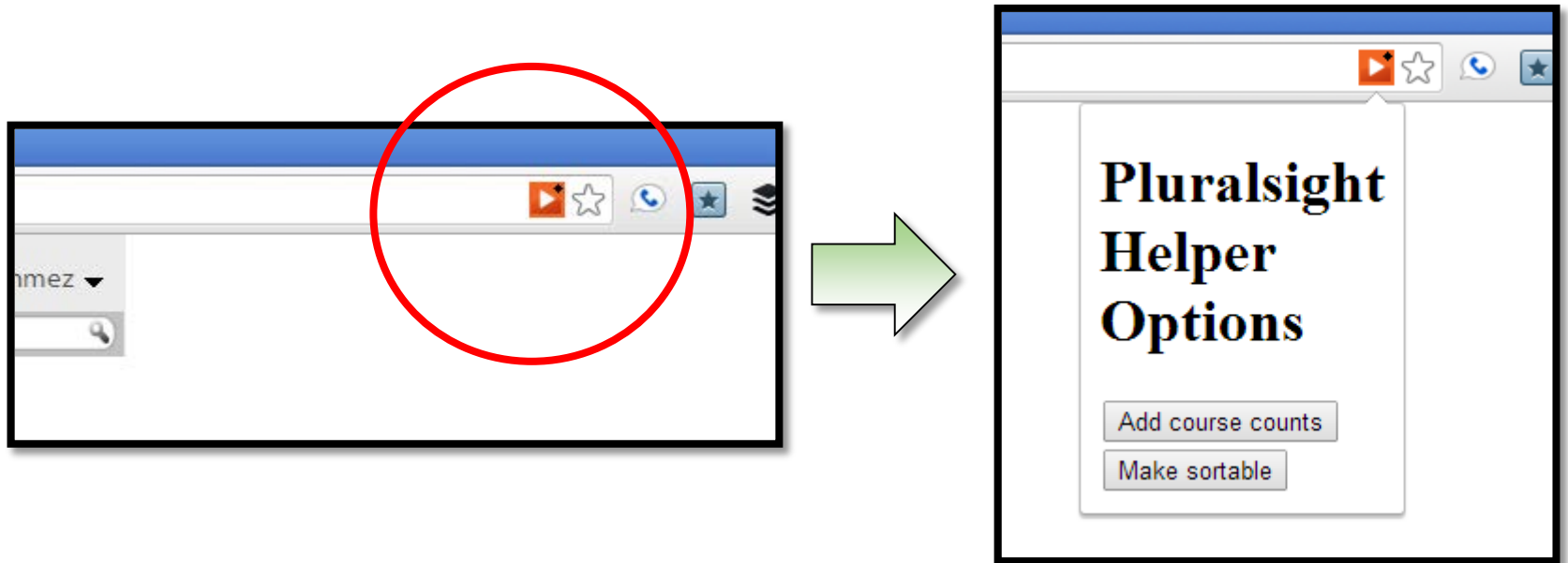

Page actions must be explicitly made visible with "show"

Content Scripts

```
manifest.json  pluralsight_cs.js  eventPage.js  popup.html  popup.js  pluralsight_cs.css
 1  chrome.runtime.onMessage.addListener(function(request, sender, sendResponse) {
 2      if(request.action == "courseCounts") {
 3          var authors = $('.author a');
 4          authors = $.makeArray(authors);
 5          var hist = {};
 6          authors.map(function(a) {
 7              if (a.title in hist)
 8                  hist[a.title]++;
 9              else
10                  hist[a.title] = 1;
11          });
12
13          for(var a in hist) {
14              var aName = "" + a + "";
15              var links = $('.author a[title=' + aName + ']');
16              $.each(links, function(i, v) {
17                  v.innerText = a + ' - ' + hist[a]
18              });
19          }
20      }
21      if(request.action == "makeSortable") {
22          $('.course').dataTable({"bPaginate": false});
23      }
24  });
25  chrome.runtime.sendMessage({action:"show"}, function() {});
```
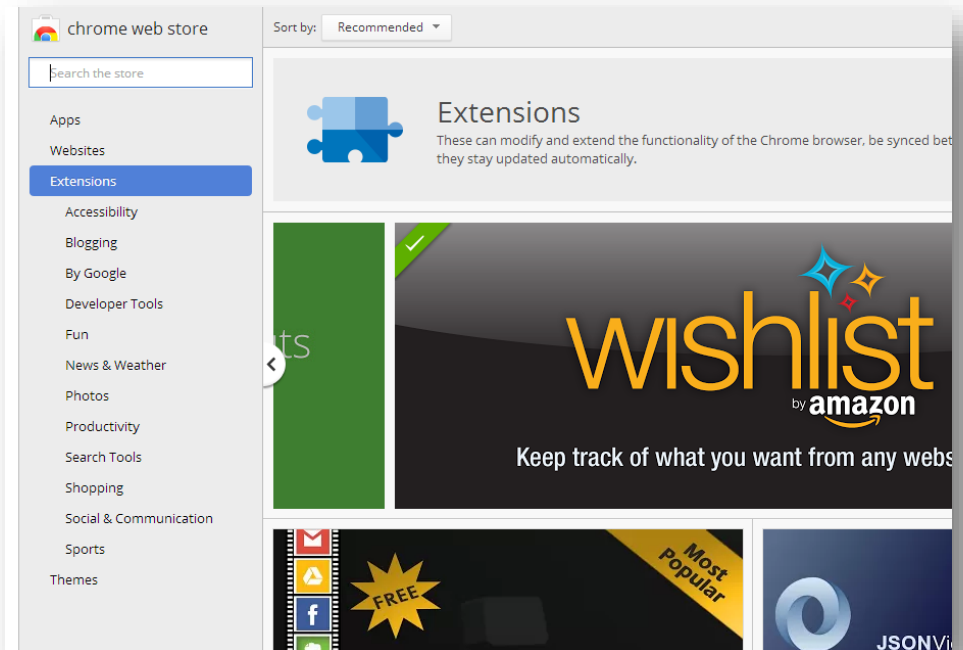
Content scripts are basically additional script or CSS we add to a page

Messages
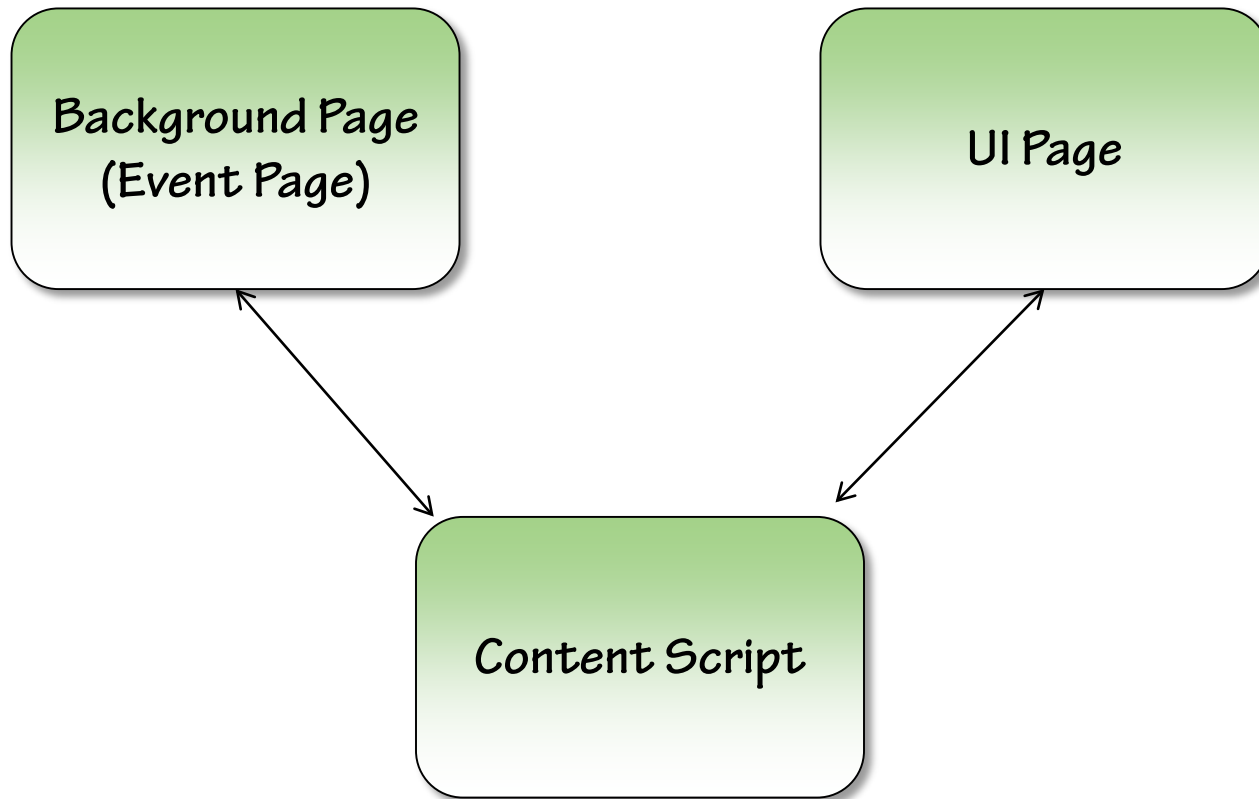
Messages are required to communicate with content scripts

Up Next

We'll be discussing debugging and deployment