



Building Apps on the Chrome Platform

How we built the Chrome Dev Editor

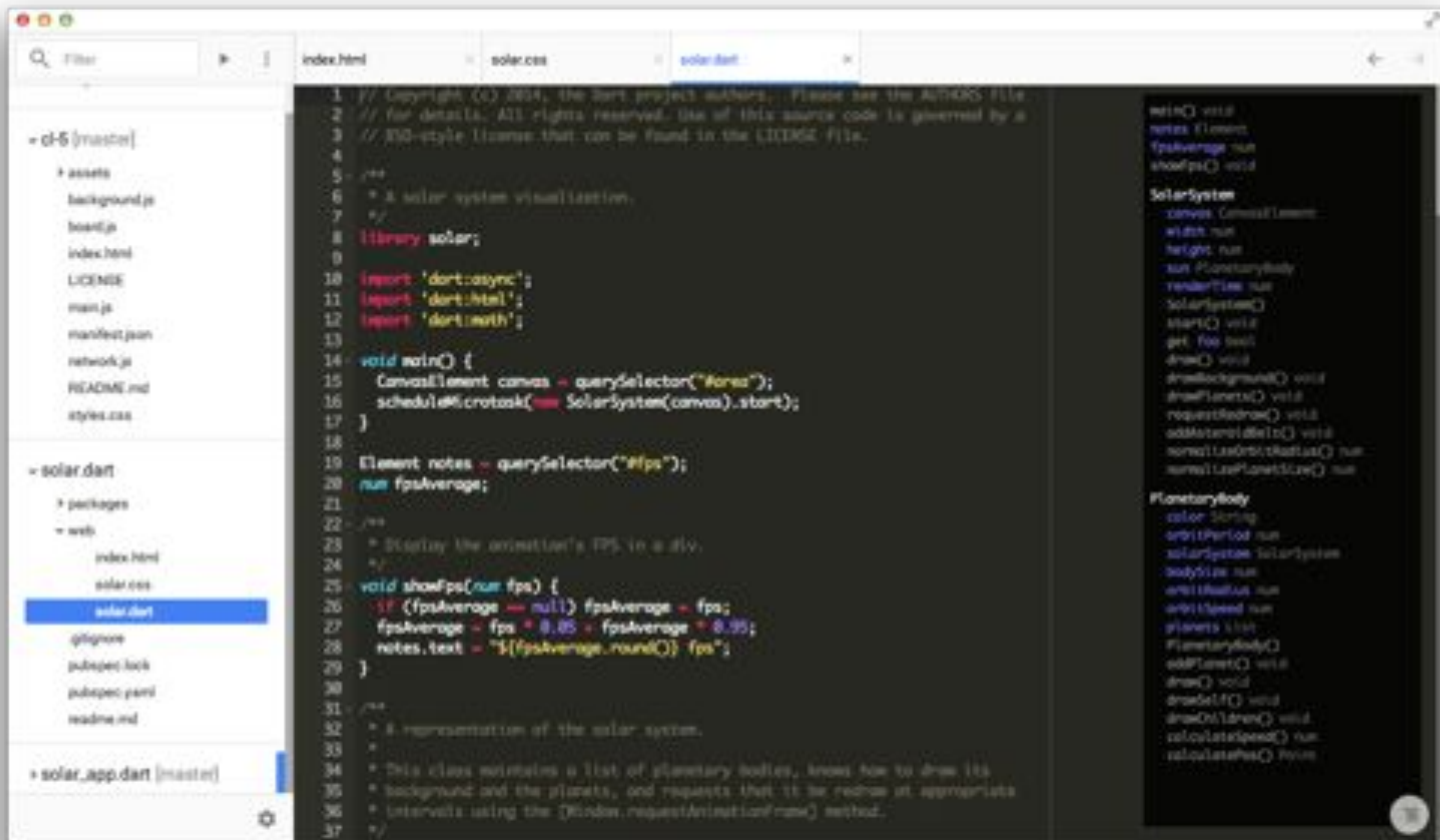


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Chrome Apps

Native capabilities on the web stack



Dart

Productivity at scale

```
class Die {  
  static Random shaker = new Random();  
  int sides, value;  
  String toString() => '$value';  
  Die({int n: 6}) {  
    if (4 <= n && n <= 20) {  
      sides = n;  
    } else {  
      throw new ArgumentError('n must be between 4 and 20');  
    }  
  }  
  int roll() {  
    return value = shaker.nextInt(sides);  
  }  
}
```



Polymer

Build beautiful apps, faster



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Social & Communication

Utilities

Extensions

Themes



For Your Desktop

Awesome apps that run offline and outside the browser.

Until AM for Chrome
617,767 usersWeatherBug
586,293 usersPixlr Touch Up
454,498 usersGliffy Diagrams
404,571 usersVNC Viewer for Google Chrome™
367,819 usersLucidchart Diagrams - Desktop
876,713 usersAny.do
91,147 usersVideostream for Google Chrome...
363,893 usersMagisto
585,435 users

<hello-world>Moar Developer Tools!</hello-world>



A Dart development environment...

...written in Dart!



Building Chrome Dev Editor





Let's get started!

A large collection of small, colorful ceramic elephant figurines and plates, overlaid with a semi-transparent dark gray rectangle containing the text '> 1 file?'. The background image shows a dense arrangement of these items, with some plates featuring intricate designs and the figurines in various colors like pink, green, and gold. The text is centered within the dark gray area.

> 1 file?

Div soup:

```
<div tabindex="1" class="listview-container">
  <div class="listview-row" style="left: 0px; right: 0px; height: 38px...
    <div class="treeviewcell">
      <div class="treeviewcell-status project"></div>
      <div class="treeviewcell-content" draggable="true" style="left: 20px...
        <div class="fileview-filename-container project">
          <div class="filename">
            <span id="fileName" class="nameField">My Project</span>
            <span id="fileInfo" class="infoField text-muted">[master]</span>
          </div>
          <div class="gitStatus dirty"></div>
        </div>
      </div>
    </div>
  ...
</div>
```





Polymer

- encapsulate DOM structure
- scope CSS
- creates reusable components

```
<files-view></files-view>
```



HTML

```
<polymer-element name="files-view" attributes="model">
  <template repeat="{{node in childNodes}}">
    <files-view-node
      name="{{node.name}}"
      icon="{{node.iconType}}"
      indent="{{indent + 1}}">
    </files-view-node>
  </template>
  ...
```

CSS

```
:host {
  white-space: nowrap;
  ...
```

Dart

```
@CustomTag('files-view')
class FilesView extends FilesViewNode {
  @published FilesViewModel model;
  ...
```





Breaking boundaries



Bootstrapping

“BXP135660” by tableeatny
<https://www.flickr.com/photos/53370644@N06/4976494944/>



Web App Development

http://commons.wikimedia.org/wiki/File:Spiders_web.svg

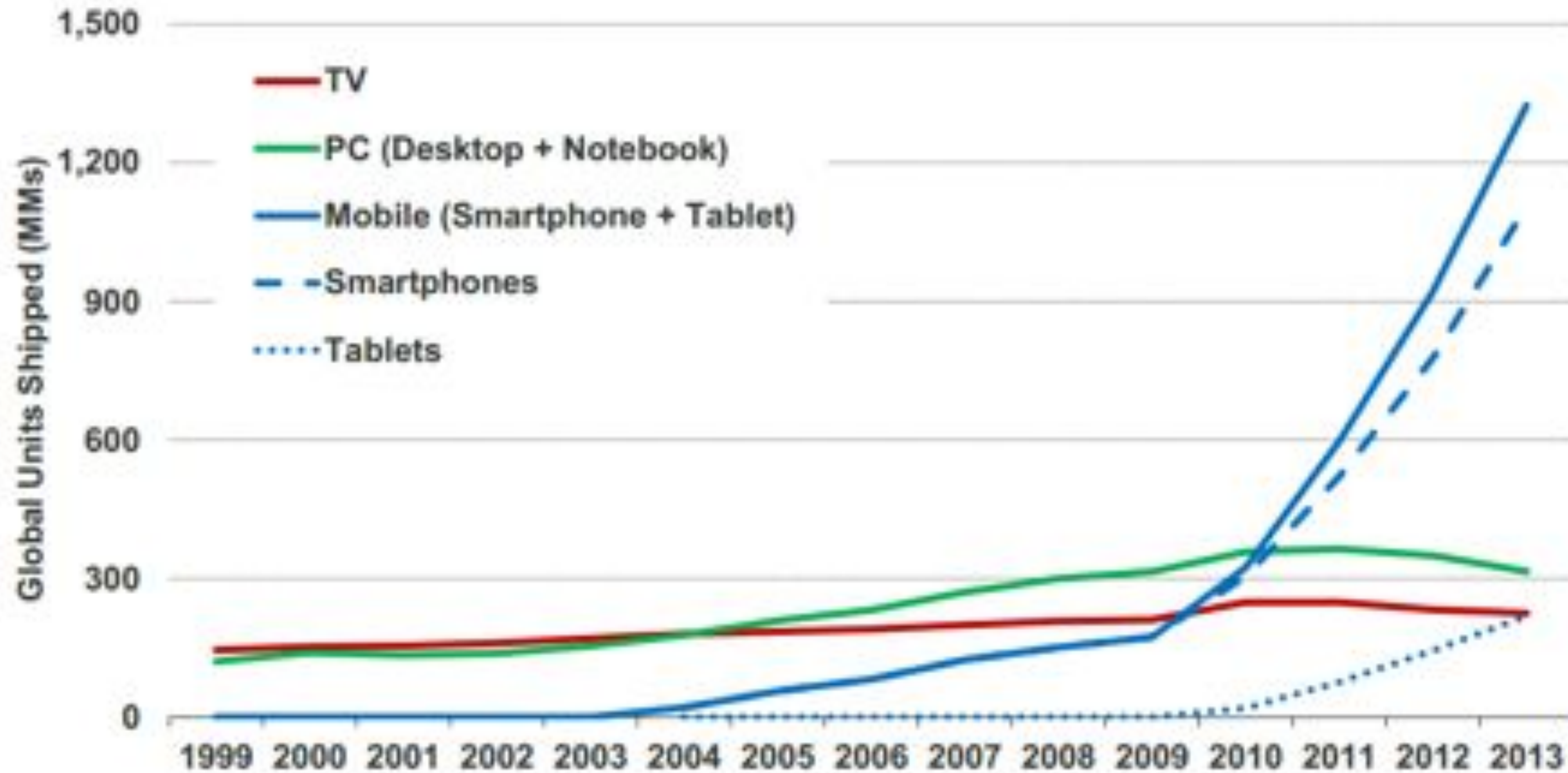






MOBILE

Global TV vs. PC (Desktop + Notebook) vs. Mobile (Smartphone + Tablet) Shipments, 1999 – 2013





Chrome Apps on Mobile



To sum up:



Chrome Apps

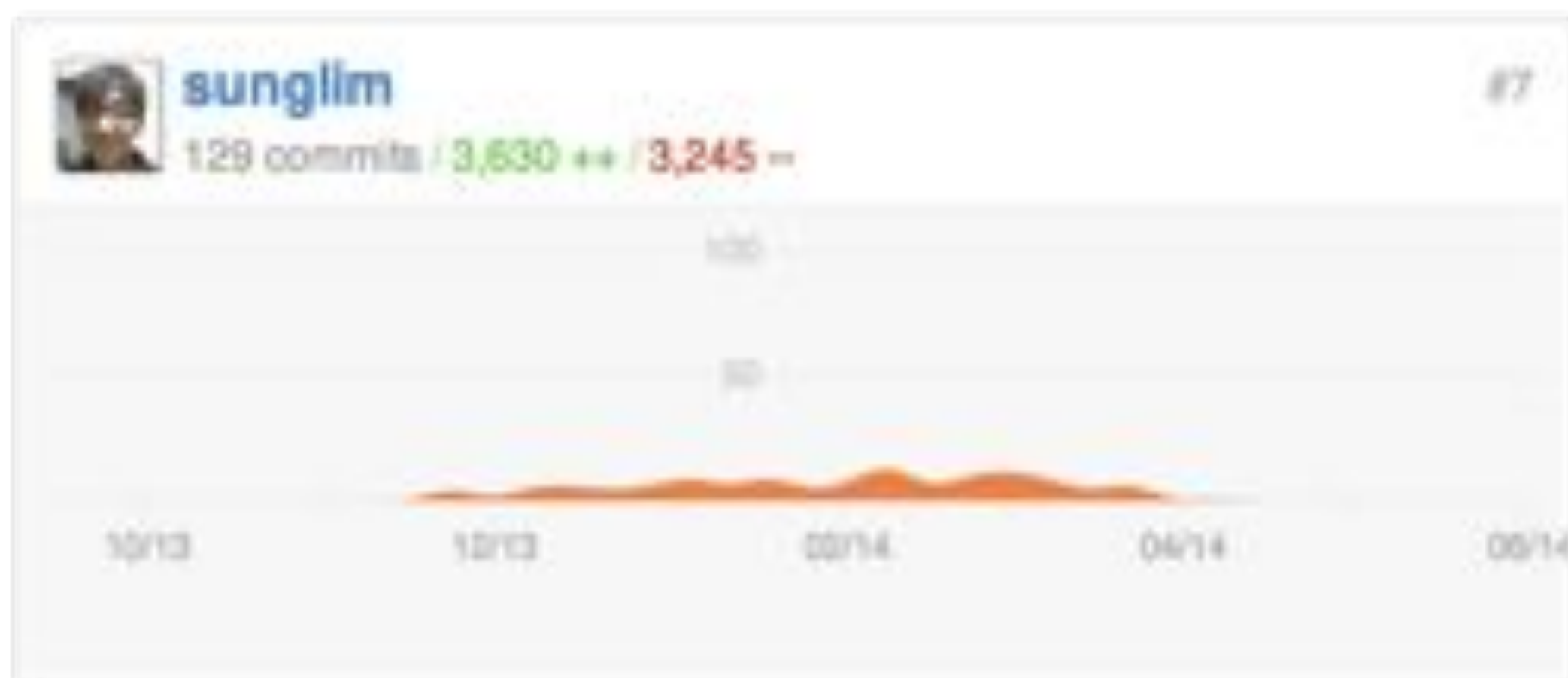


Dart



Polymer





Interested?

Chrome Platform

<https://developer.chrome.com>

Chrome Dev Editor - developer preview

<https://github.com/dart-lang/chromedeveditor>



Thank you!



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FEEDBACK

<http://goo.gl/iwSCyk>

developer.chrome.com

github.com/dart-lang/chromedeveditor

