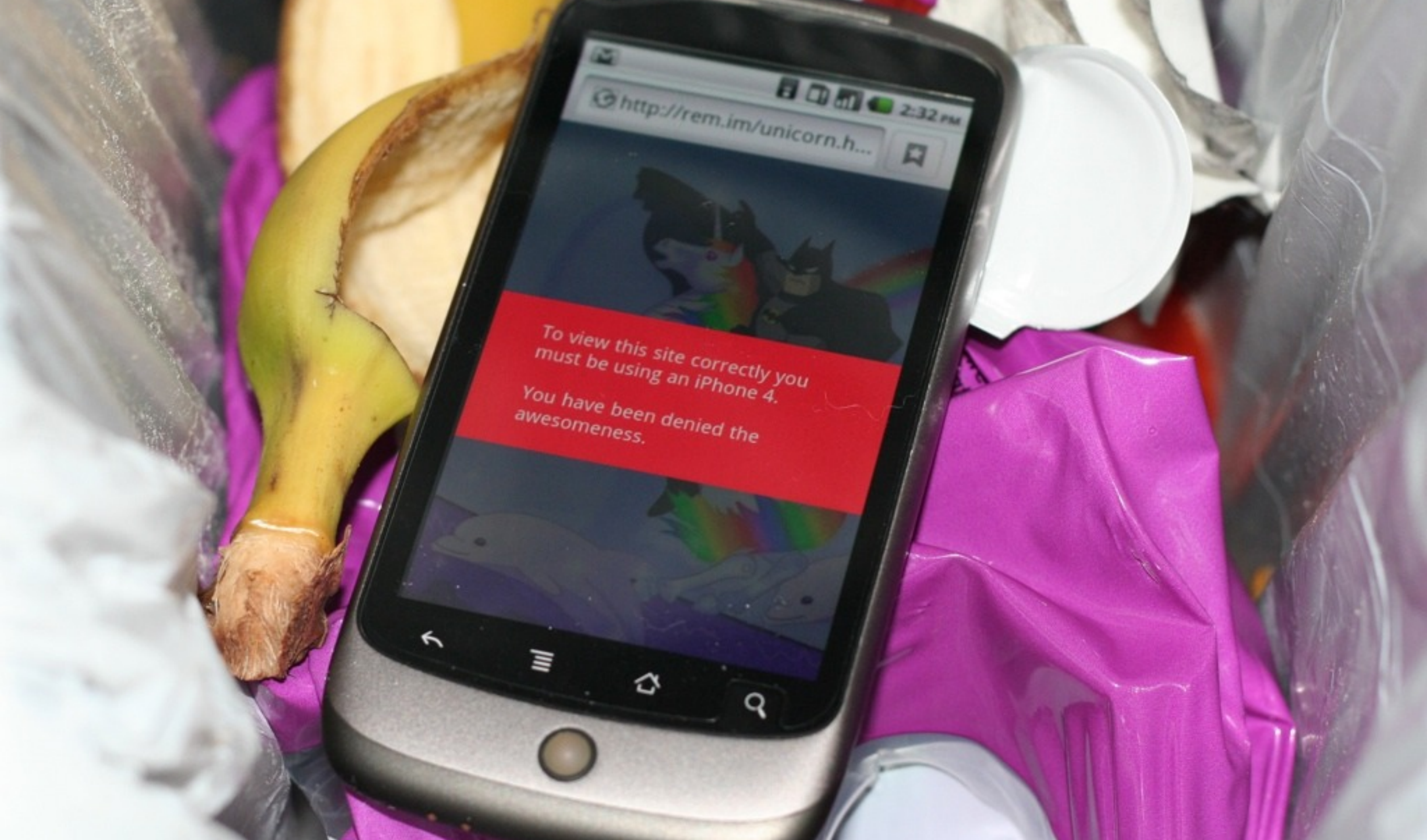




Developing for Mobile Web



mobile

About 1,450,000,000 results (0.05 seconds)

Everything

Images

Videos

News

Shopping

Blogs

More ▾

Any size

Large

Medium

Icon

Larger than...

Exactly...

Any type

Face

Photo

Clip art

Line drawing

Any color

Full color

Black and white



Standard view

Show sizes

WTF?





A man in a dark suit and light blue shirt is looking directly at the camera with a surprised expression. He is holding a black Blackberry phone in his right hand. In the foreground, several other hands are holding various mobile phones: a white phone with a colorful screen on the left, a black phone in the center, and another Blackberry on the right. A hand at the top left is holding a beer bottle with a white label featuring a red 'S' and a logo. The background is dark and out of focus.

Also has
Blackberry

Not a
phone

Phones go wild

**Portable?
Handheld?
A smart-phone?
Any old phone?**



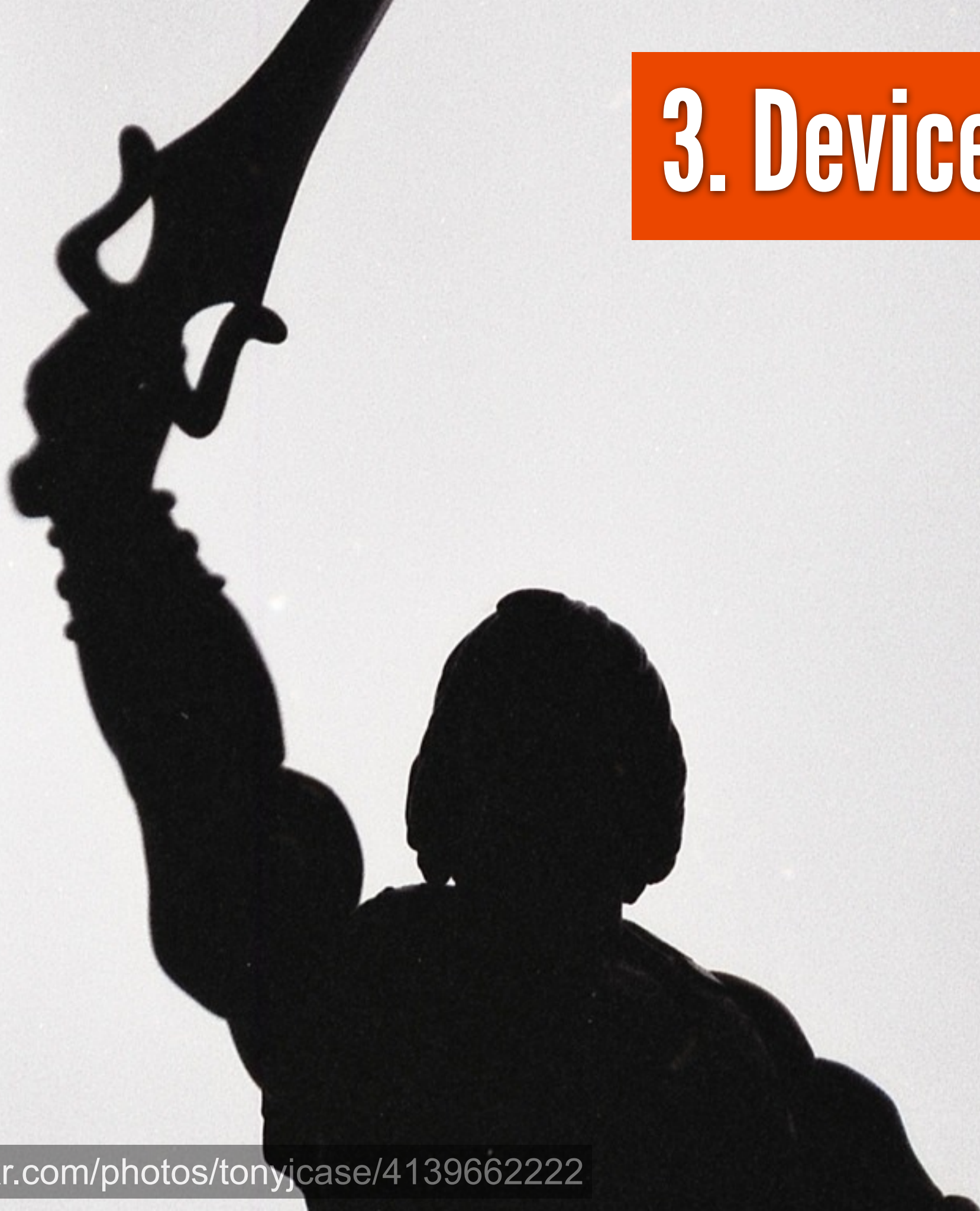
1. Physical properties



2. Network usage



3. Device Power



Gmail

3.5 versions of Gmail:

Desktop - richly interactive

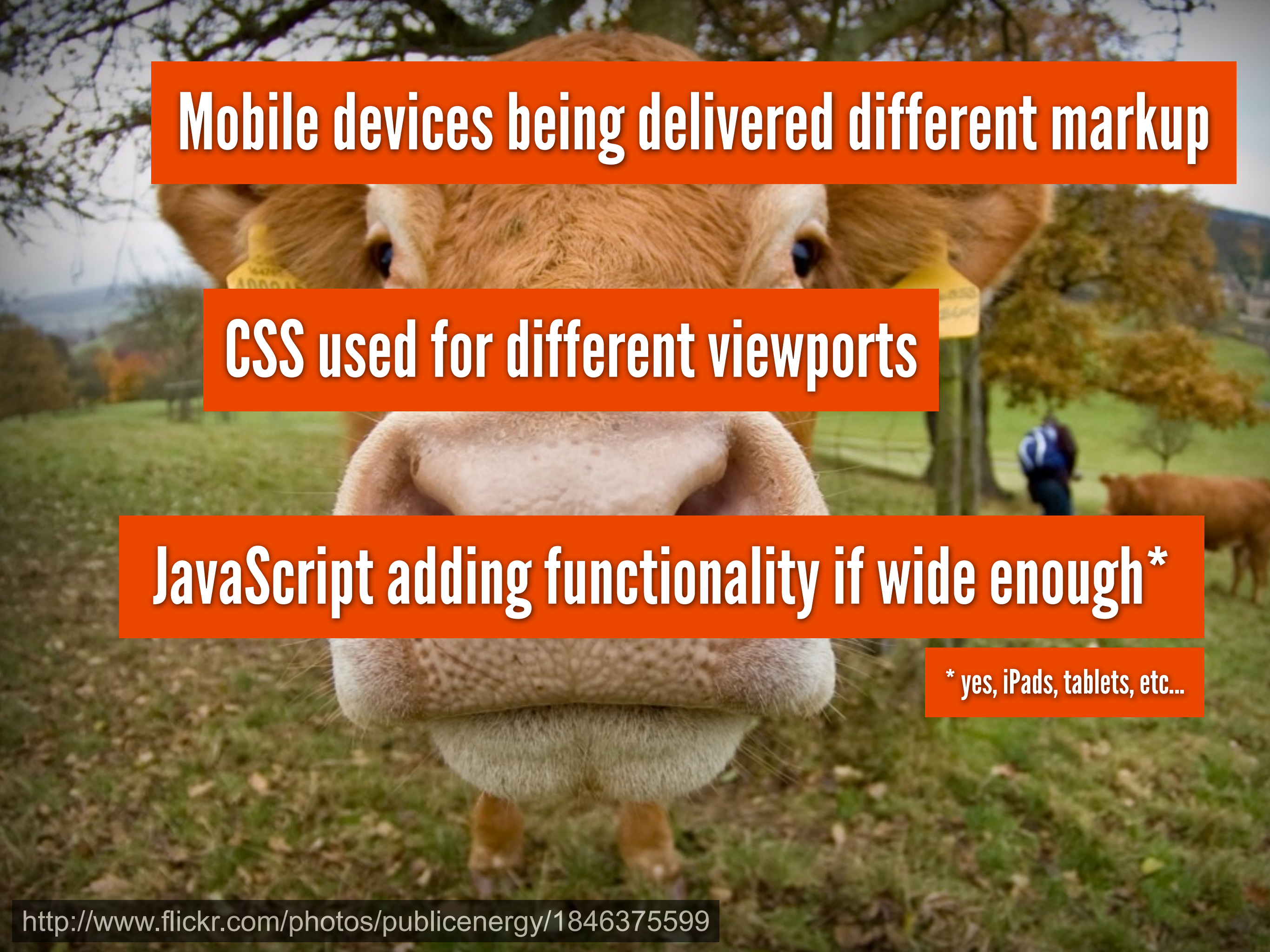
Desktop - 'simple' HTML

(requires opt in)

Mobile

& old mobile

(still served to Palm Pre, etc)



Mobile devices being delivered different markup

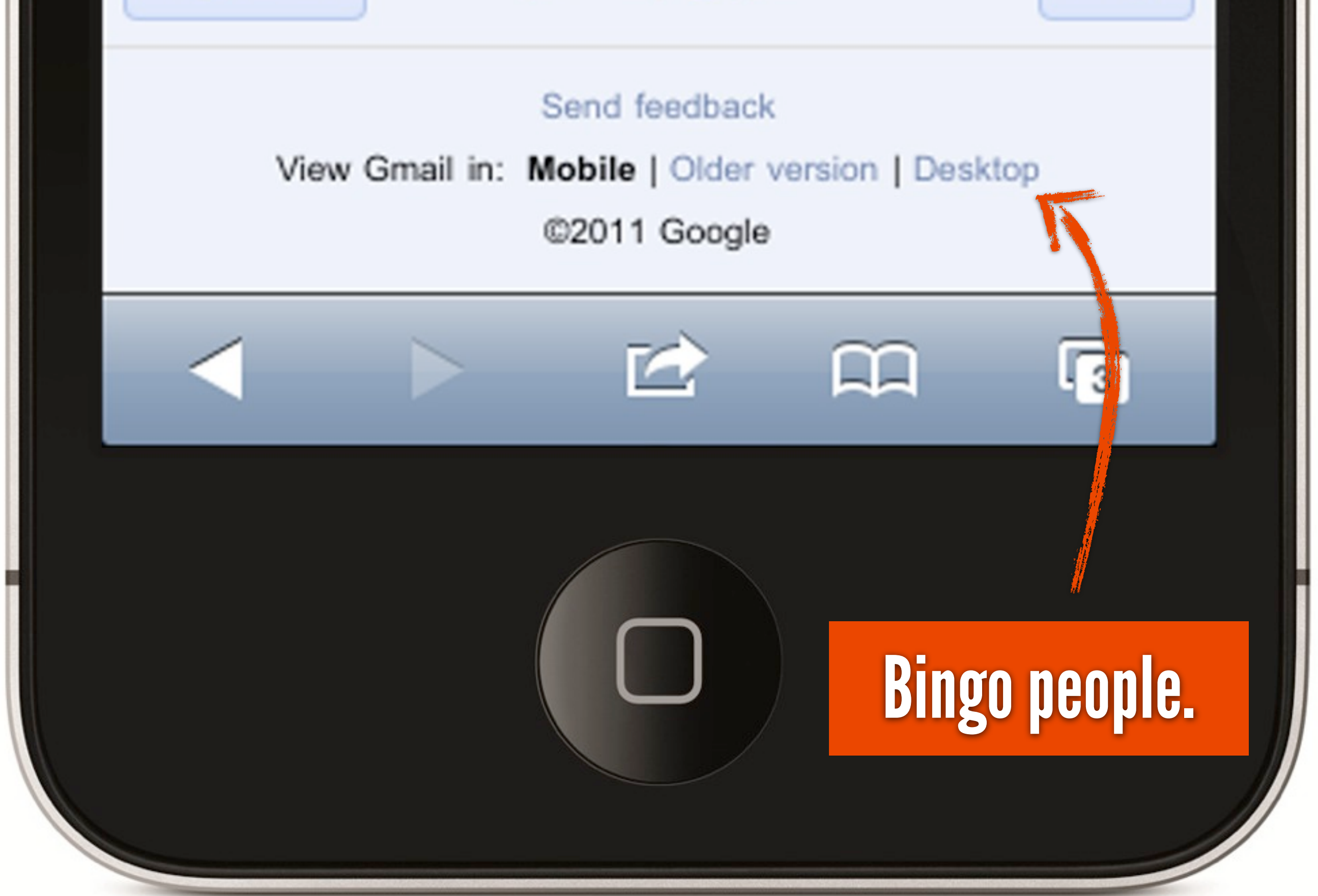
CSS used for different viewports

JavaScript adding functionality if wide enough*

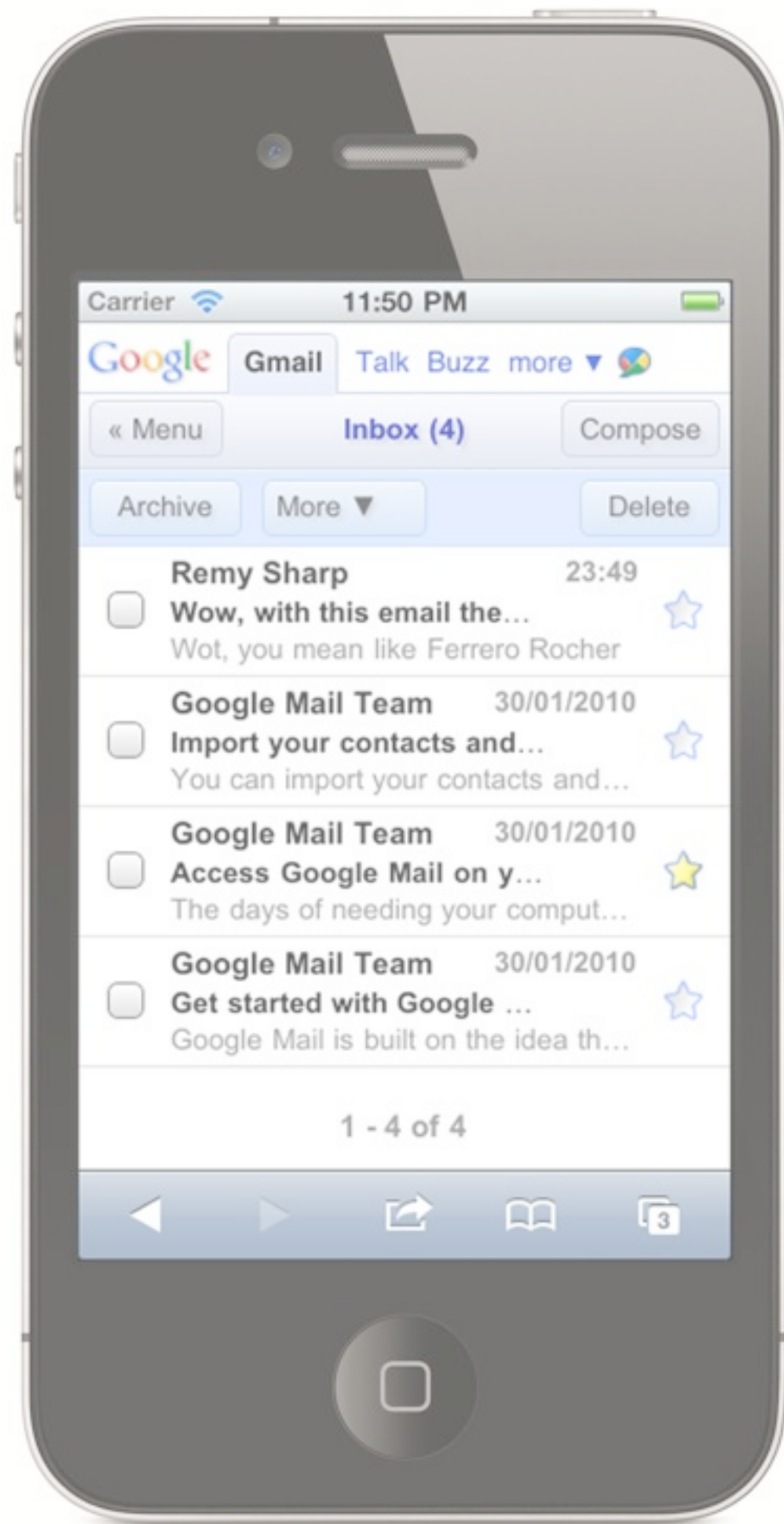
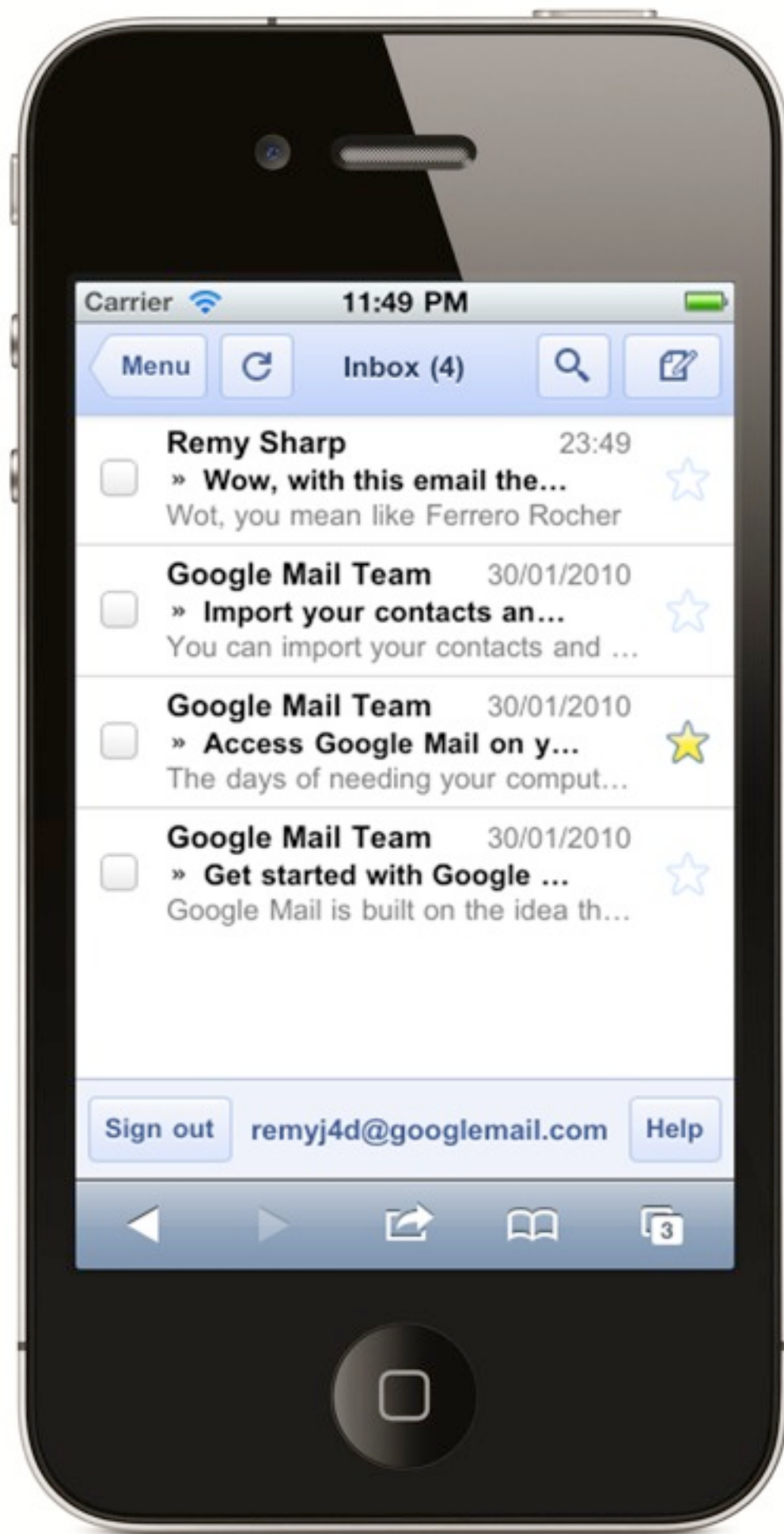
*** yes, iPads, tablets, etc...**

Browser smelling bad?





Bingo people.



Carrier



11:49 PM



Menu



Inbox (4)



Remy Sharp

23:49



» **Wow, with this email the...**

Wot, you mean like Ferrero Rocher



Google Mail Team

30/01/2010



» **Import your contacts an...**

You can import your contacts and ...



Google Mail Team

30/01/2010



» **Access Google Mail on y...**

The days of needing your comput...



Google Mail Team

30/01/2010



» **Get started with Google ...**

Google Mail is built on the idea th...



Web Inspector — <https://mail.google.com/mail/mu/#tl/Inbox>

Elements Resources Scripts Timeline Profiles Storage Console

Search Resources

All Documents Stylesheets Images Scripts XHR Fonts Other

RESOURCES

- wVXMigJgbTwUQAAACV0RVh0ZGF0ZTpjcmVhdGUAMjAxM...
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- glJPh11Qee+WQAAAABJRU5ErkJggg==
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- H9pxoxN4zAAAAAEIFTkSuQmCC
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- wAZD6JBfJA4SJ7UJXrWIKn8OZHL35u2Xr03bKVe98sB9EgPkgcj...
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Headers Content

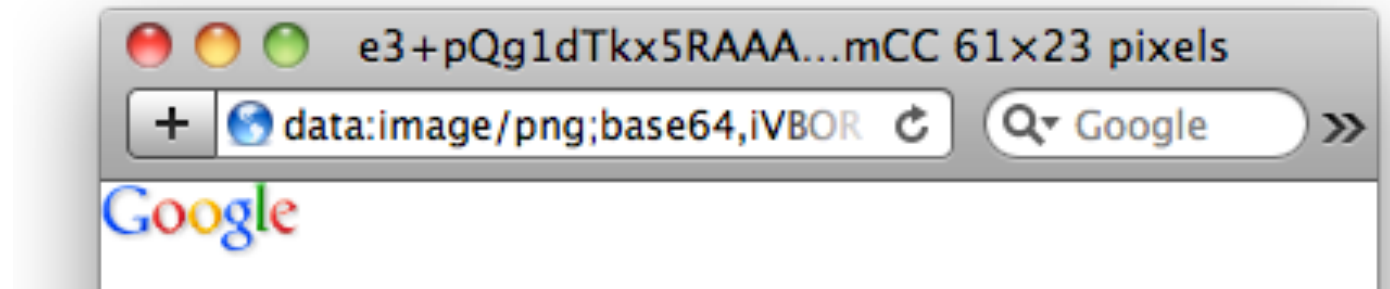
Request URL: data:image/png;base64,iVBORw0KGgoAAAANSUHEUgAAAIwAAABBCA
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Tip: Safari, 'show debug menu', change user agent

```

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  height:21px;
  background:transparent url('data:image/
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TYr3TXpy7iGkrFJF76xbZe26mriFSCIF1by0w6E5bGWBxfy0wcdR6+b/e3+pQg1dTkx5RAAAAAE1FTkSuQmCC') no-repeat 1px 3px;
  color:rgba(100%,100%,100%,0.01);
  letter-spacing:10px;
  overflow:hidden;
  margin:3px 3px 0;
  padding:5px 1px 1px;
}

```



Inline the crap out of it.

**css, JavaScript, images
all belong in the html file.**

New Tab

Save Link

Freckle

Microformats

jQuerify

CSS Stress Test

Analytics

Abbey

HTML5

Shorten

SpriteMe

»

Other Bookmarks

Apps

✓

Todo.ly

Web Store

Most visited

http://localhost:8001/ is not a...

JS Bin - Collaborative JavaS...

Node.js Manual & Documenta...

JavaScript console - for debu...

Twitter

npm registry

Inliner - inline the crap out of ...

förbind

Recently closed

Inliner - inline t...

JavaScript Full...

Navigation Ti...

Apple - OS X L...

OpenStreetMa...

A Recursive s...





A black silhouette of a person is shown from the back, holding a large, dark, irregular object high above their head with both hands. The background is a light, textured grey. Two orange rectangular boxes with white text are overlaid on the image. The first box is at the top left, and the second box is in the middle right.

1. Store data & assets locally

2. Defer work

Web Inspector — https://mail.google.com/mail/mu/

ElementsResourcesScriptsTimelineProfilesStorageConsole

DATABASES

▼remysharp@gmail.com

action_queue_14

cached_contacts

cached_conversation_h...

cached_labels

cached_messages

cached_queries

labelId	po...	metadata
^t	11	[null,"^t","^t","#006633","#f1f5ec",null,true,599440327]
accountant	12	[null,"accountant","Accountant","#006633","#f1f5ec",null,true
apple-mail-to-do	13	[null,"apple-mail-to-do","Apple Mail To Do","#006633","#f1f
bnm	14	[null,"bnm","BNM","#006633","#f1f5ec",null,false,599440344]
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deleted_messages	21	[null,"deleted_messages","Deleted Messages","#006633","#f1

SESSION STORAGE

COOKIES

mail.google.com

16 cookies (2.87KB)

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left-logic	27	[null,"left-logic","Left Logic","#006633","#f1f5ec",null,true,59
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manning-authors	30	[null,"manning-authors","Manning Authors","#006633","#f1f5
notes	31	[null,"notes","Notes","#006633","#f1f5ec",null,false,59944037
phonegap	32	[null,"phonegap","PhoneGap","#006633","#f1f5ec",null,false,5

☐

>≡

↺

Web Storage, Web SQL Database, IndexedDb

```
<html manifest="https://mail.google.com/mail/mu/manifest">
```

CACHE MANIFEST

AppName: superpudu

User: youremail@gmail.com

Version: 505718b088be23a8

NETWORK:

/

*

//www.google.com

Manifest version control

Single page app - implicitly cached

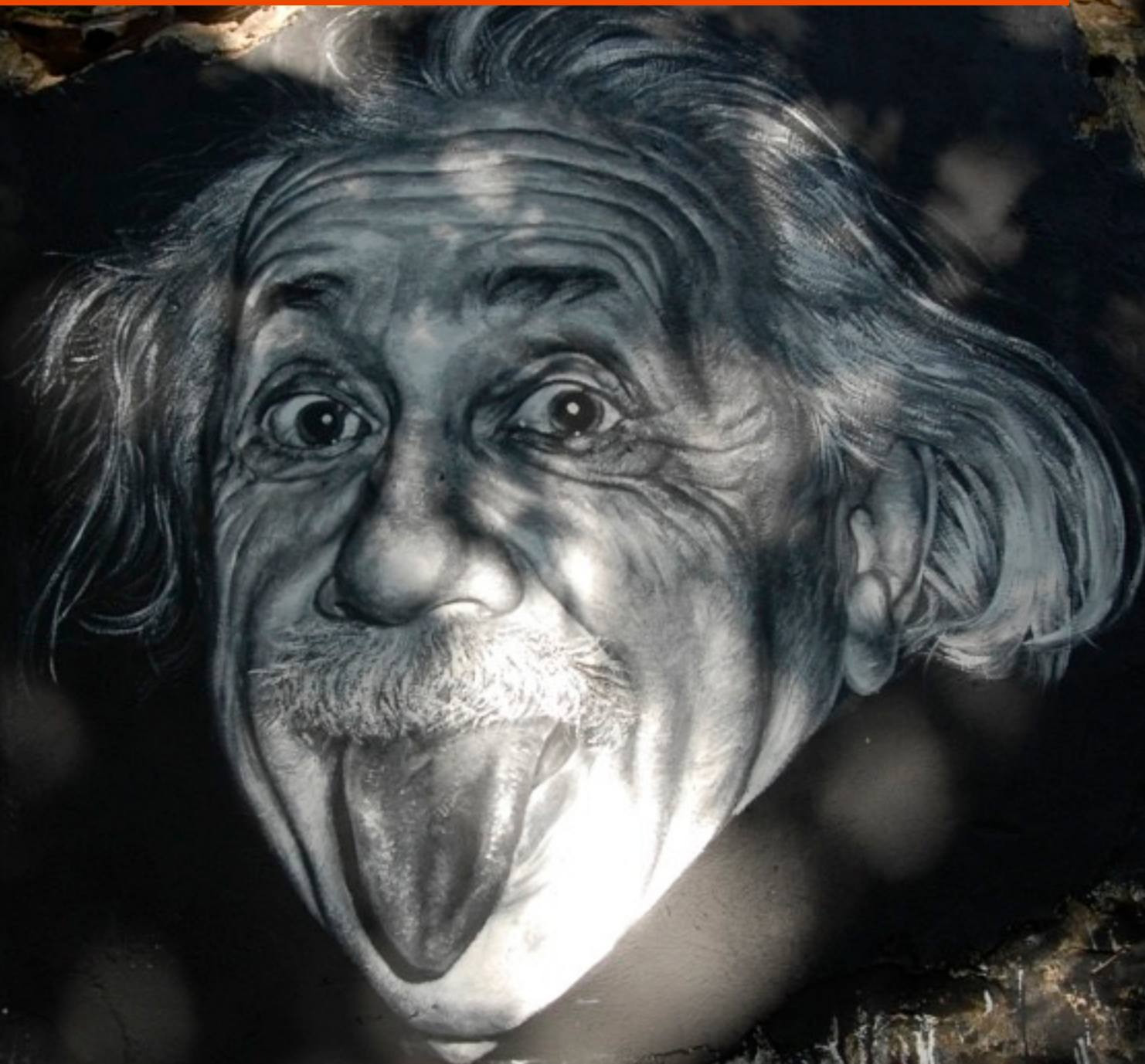
NETWORK:

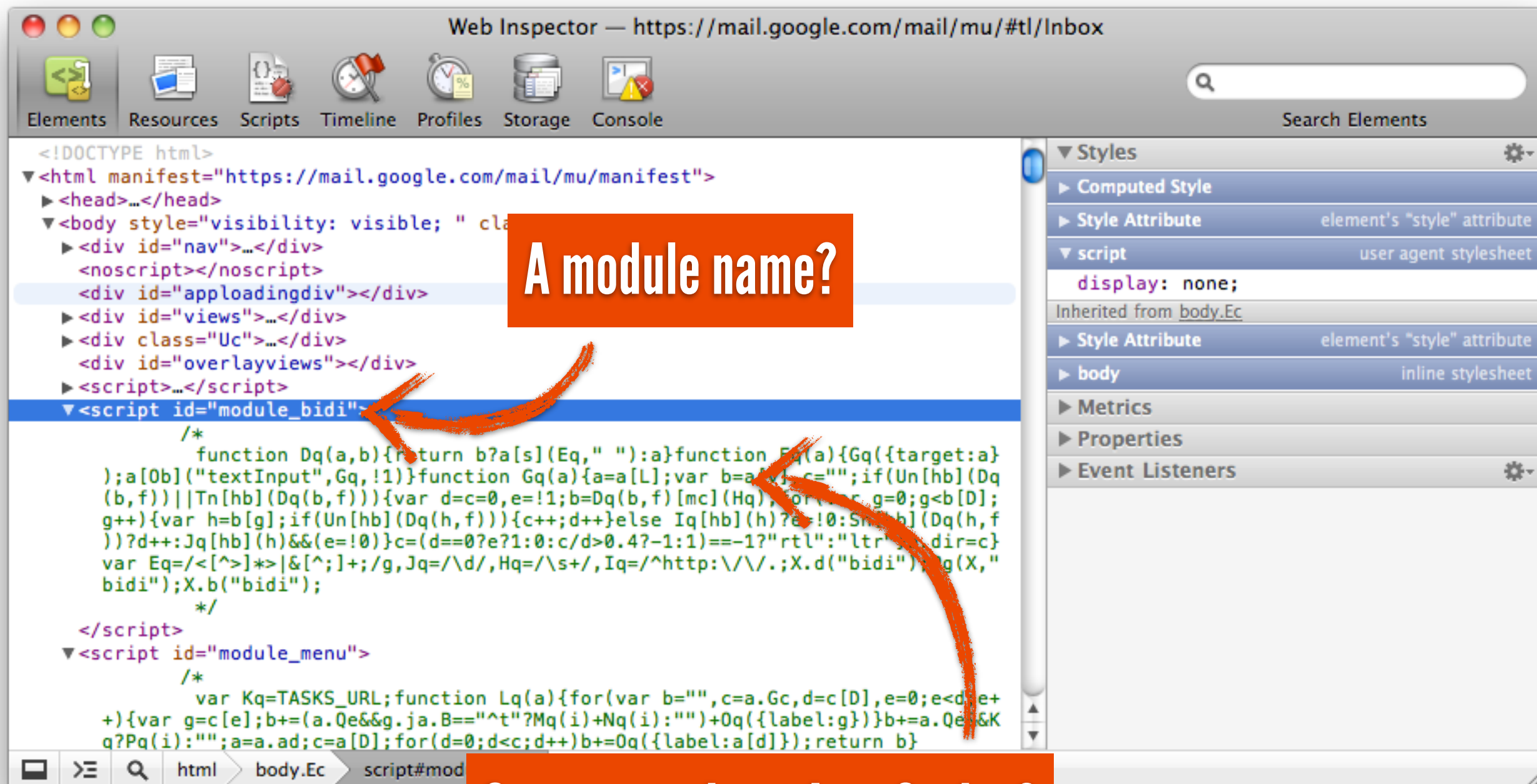
https://www.google.com/ssi

https://ssl.gstatic.com/m/og/s

https://ssl.gstatic.com/m/og/s

This next bit is a bit of a mind fuck.

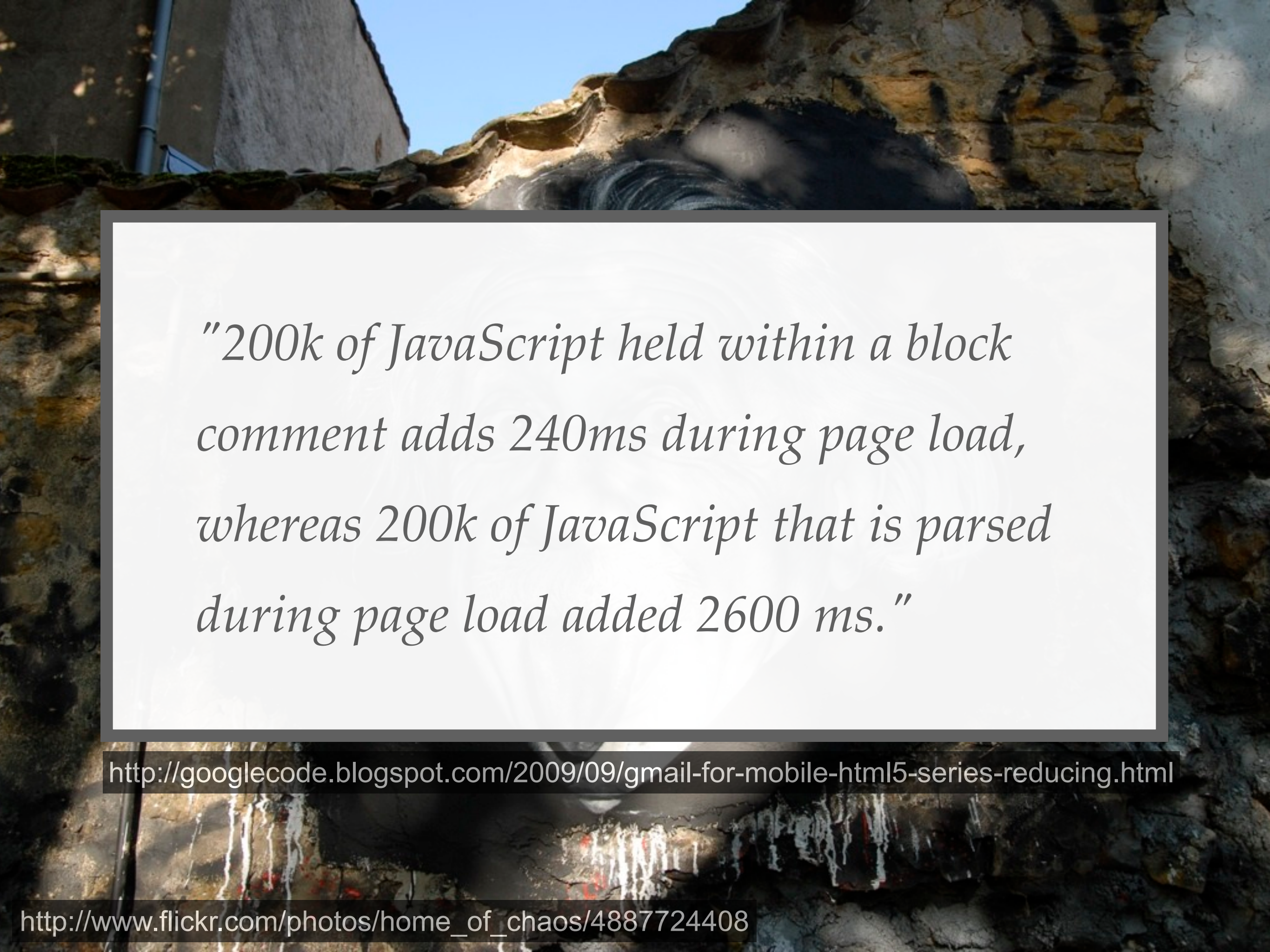




A module name?

Commented out JavaScript?

```
function loadModule(id) {  
    var codeElement = document.getElementById(id),  
        code = codeElement.innerHTML;  
    eval(stripOutCommentBlock(code));  
}  
  
function stripOutCommentBlock(str) {  
    return str.replace(/\/*/, '').replace(/\*\/, '');  
}
```



"200k of JavaScript held within a block comment adds 240ms during page load, whereas 200k of JavaScript that is parsed during page load added 2600 ms."

<http://googlecode.blogspot.com/2009/09/gmail-for-mobile-html5-series-reducing.html>

http://www.flickr.com/photos/home_of_chaos/4887724408

1. Inline as much as you can

2. Defer work as much as possible

3. Be prepared to get creative



JavaScript Libraries?

<http://www.flickr.com/photos/seeminglee/4556156477>

xui



**This is all the source code
you need to start your
project with:**

For more information, see vapourjs.org



Titbits

(or tidbits if we're in the states)

without translate3d



with translate3d





<http://cubiq.org/iscroll-4>

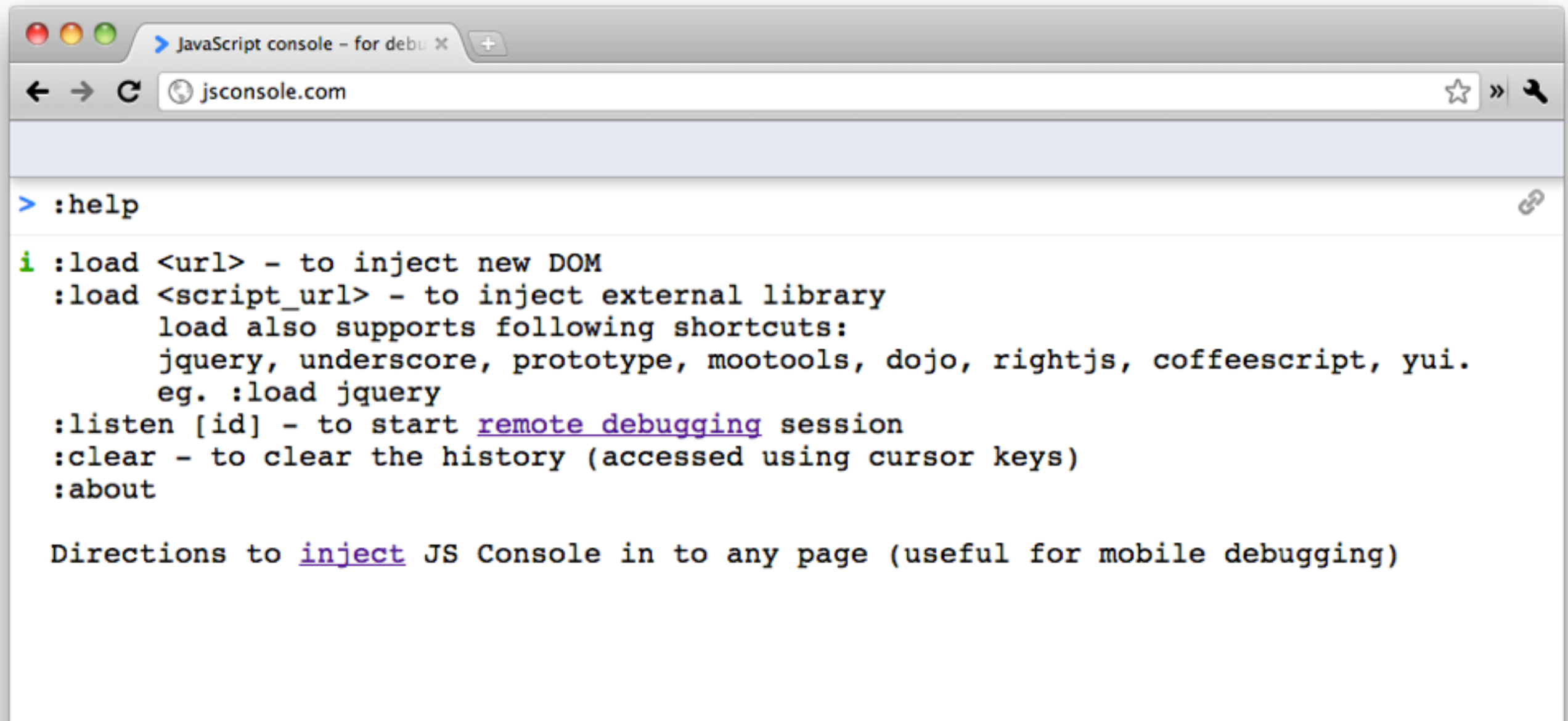


Platform	Version	Native	Opera Mobile				Opera Mini		Fennec		Ozone	Netfront	Phonegap
			8.5	8.65	9.5	10.0	4.0	5.0	1.0	1.1	0.9	4.0	
iOS	v2.2.1	A											A
	v3.1.3, v3.2	A						A					A
	v4.0	A						A					A
Symbian S60	v3.1, v3.2	C	C	C		B	C	B			C	C	
	v5.0	A	C	C		A	C	A					A
Symbian UIQ	v3.0, v3.1			C							C		
	v3.2				C						C		
Symbian Platform	3.0	A											
BlackBerry OS	v4.5	C					C	C					
	v4.6, v4.7	C					C	B					C
	v5.0	A					C	A					A
	v6.0	A						A					A
Android	v1.5, v1.6	A											A
	v2.1	A											A
	v2.2	A				A		C		A			A
Windows Mobile	v6.1	C	C	C	C	B	C	B				C	
	v6.5.1	C	C	C	C	A	C	A					
	v7.0	C				A	C	A					
webOS	1.4.1	A											A
bada	1.0	A											
Maemo	5.0	B				B			C	B			
MeeGo	1.1	A				A				A			

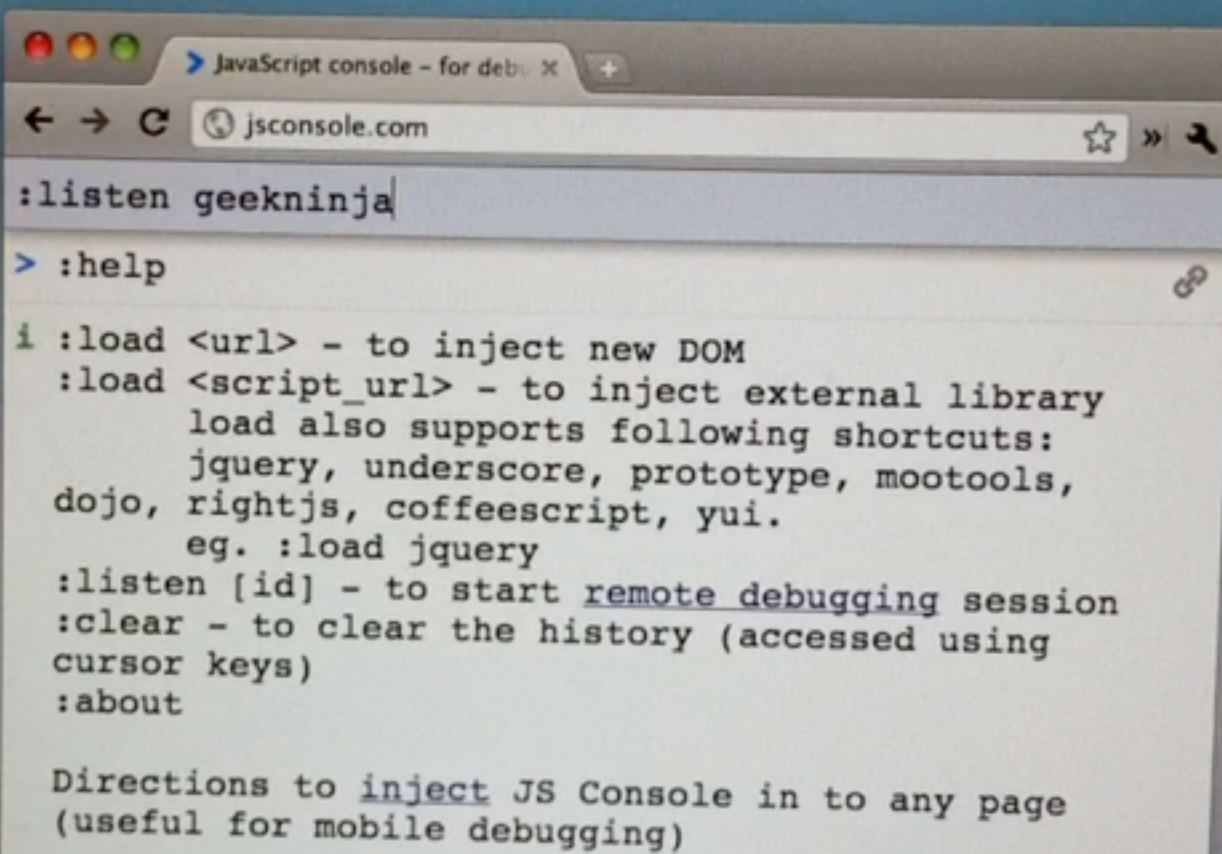
debugging



http://jsconsole.com



Remote mobile console - works on the real devices!



```
JavaScript console - for debug X
jsconsole.com
:listen geekninja
> :help

i :load <url> - to inject new DOM
:load <script_url> - to inject external library
load also supports following shortcuts:
jquery, underscore, prototype, mootools,
dojo, rightjs, coffeescript, yui.
eg. :load jquery
:listen [id] - to start remote debugging session
:clear - to clear the history (accessed using
cursor keys)
:about

Directions to inject JS Console in to any page
(useful for mobile debugging)
```

"We hope you enjoy this update to Readability. It's **100% web technology** and **100% approval-free** and we're really proud of it. This release highlights the kind of firepower behind Readability. The team put this together **in two weeks**. It's a testament to building applications based upon web standards—effective, cross-device web applications can be **built in a fraction of the time of a native app**, and be **provided without restriction**."

If you find you're writing lots of plugins for PhoneGap, etc, to support the device: then you're better off with using the native language.

**Just because you can,
doesn't mean you should.**



**Otherwise: rock on.
@rem**

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JavaScript focused
development shop.

