

GAINING CONTROL IN THE GREAT UNKNOWN

**MobileTechCon Munich - March
2014**

Servus



@ddprrt

Netural







Lafers grill recipes

The need precise control

I need to put meat on fire



Weber-Kit



Controlled Environments

Controllable Environments



ios

Uncontrollable Environments



ADVANTAGE AUSTRIA

لاأزوي لا ٣٠ وبعض المعارك

وقد كانت تلك هي المرة الأولى التي يجرى فيها حوار بين رجل من حزب العدالة ورجل من المعارضة
عامة في مصر. في محاولة للتوصل إلى تسوية سلمية في دار أفاضل الدين بين تنظيمي حركة
الحرية والعدالة، وبين رفاق القمصان، في انتظار تسوية سلمية في دار بعض من رفاق
الأستاذ الأديب الأديب.

الأوروبي لا ٣٠ وبعض المعارف

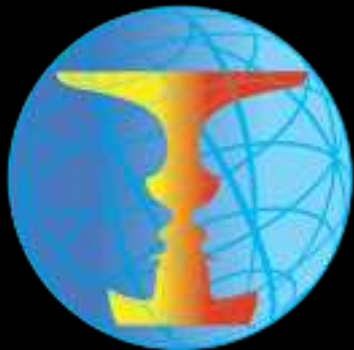
لذلك نقادنا في كل بلد حلفاء والفرص مع بعض العرب حلفاء، وفي حين أن الإرجاع
ما هي في الحقيقة التقييمات المتعددة في كل بلد أنجزت بطرق مختلفة،
من حيث أن كل بلد له اختياره الخاص، وبمقتضى التقييمات، فبعض الإرجاع
لا يفي الأمر في إرجاع ٤٠٠ وبعض الدول التي لا تفي.

تبرکات و توفیق
عزیزانه

ORIGIN 











UC Browser



UC Browser

400 million users

32% market-share in China

... to be honest ...

only few of them come with their own engine

**Under the top-most used
browsers on iOS and Android**

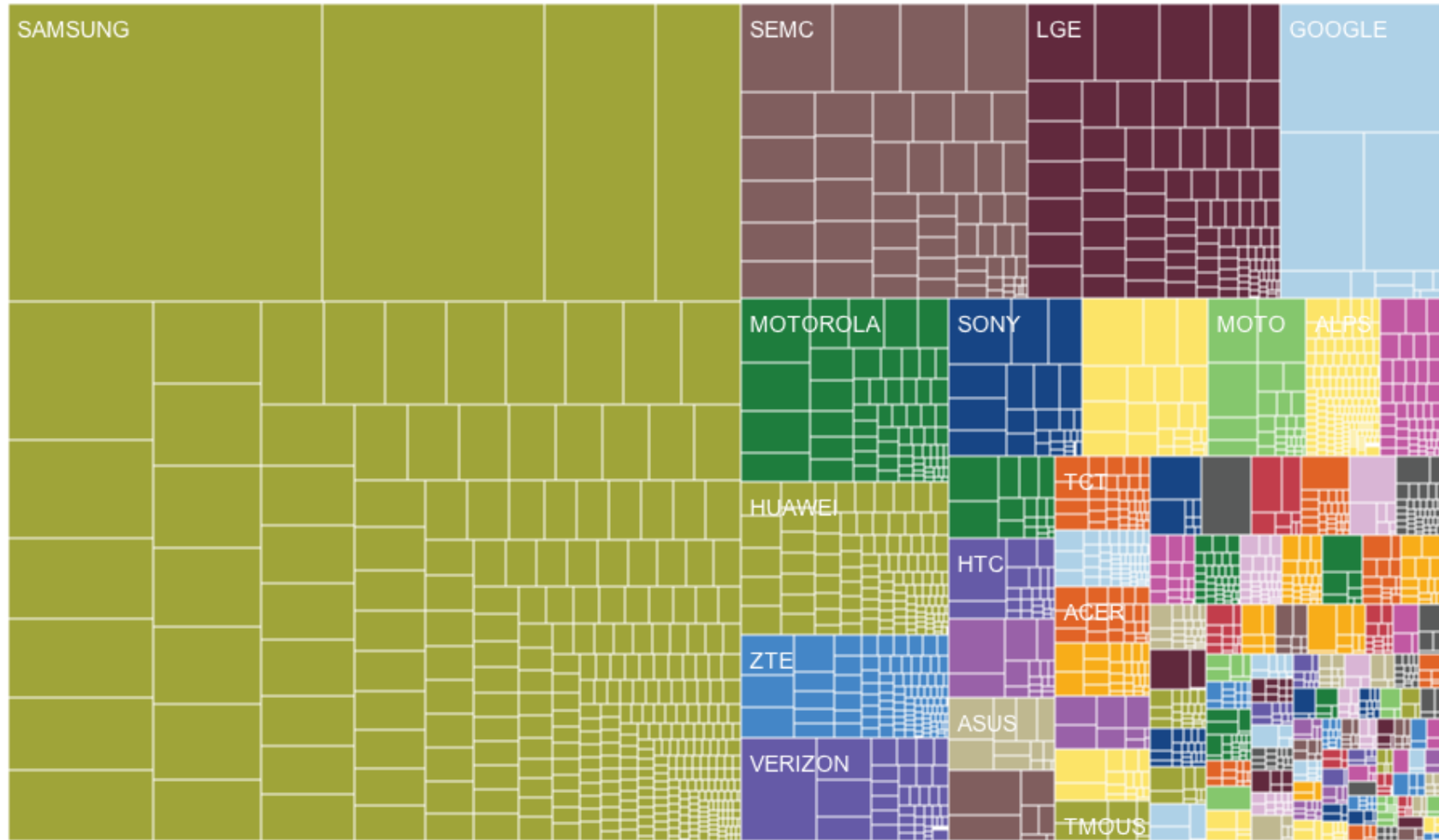


Fragmentation

DEVICE FRAGMENTATION



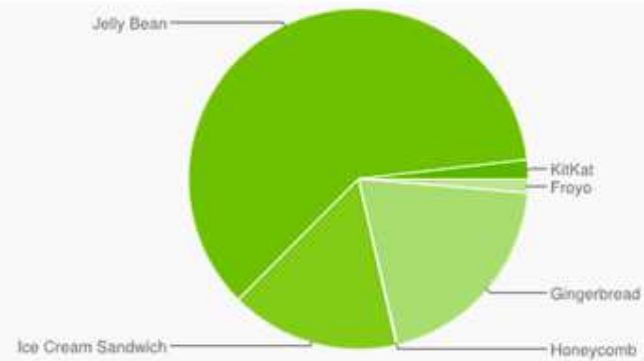
BRAND FRAGMENTATION



Count

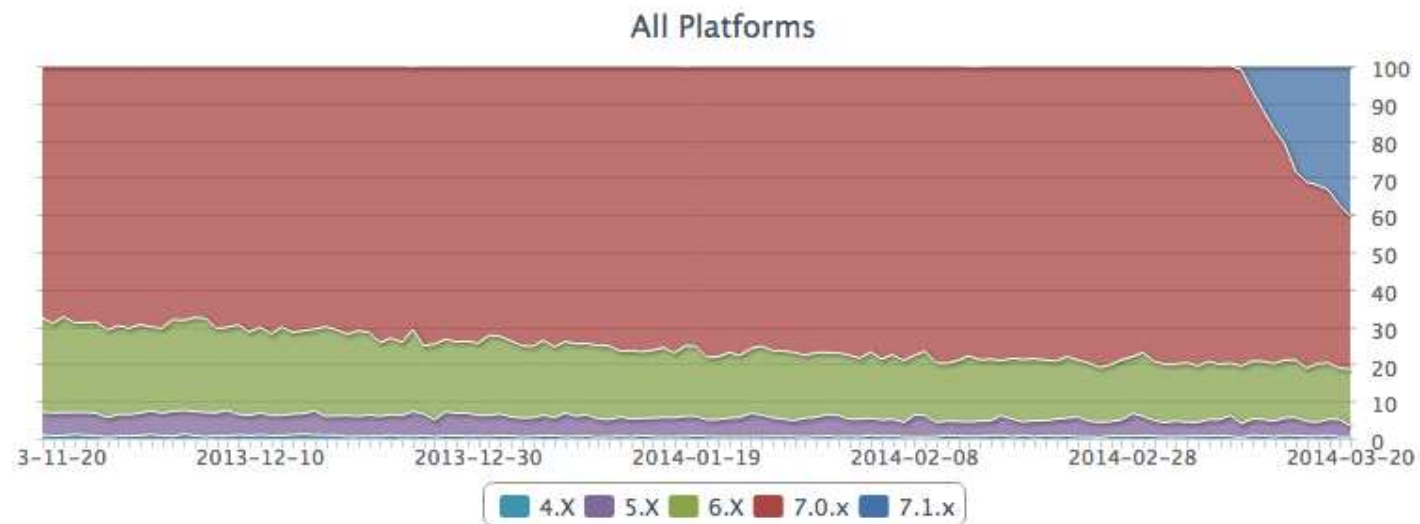
Size

Version	Codename	API	Distribution
2.2	Froyo	8	1.3%
2.3.3 - 2.3.7	Gingerbread	10	20.0%
3.2	Honeycomb	13	0.1%
4.0.3 - 4.0.4	Ice Cream Sandwich	15	16.1%
4.1.x	Jelly Bean	16	35.5%
4.2.x		17	16.3%
4.3		18	8.9%
4.4		19	1.8%
4.4	KitKat	19	1.8%

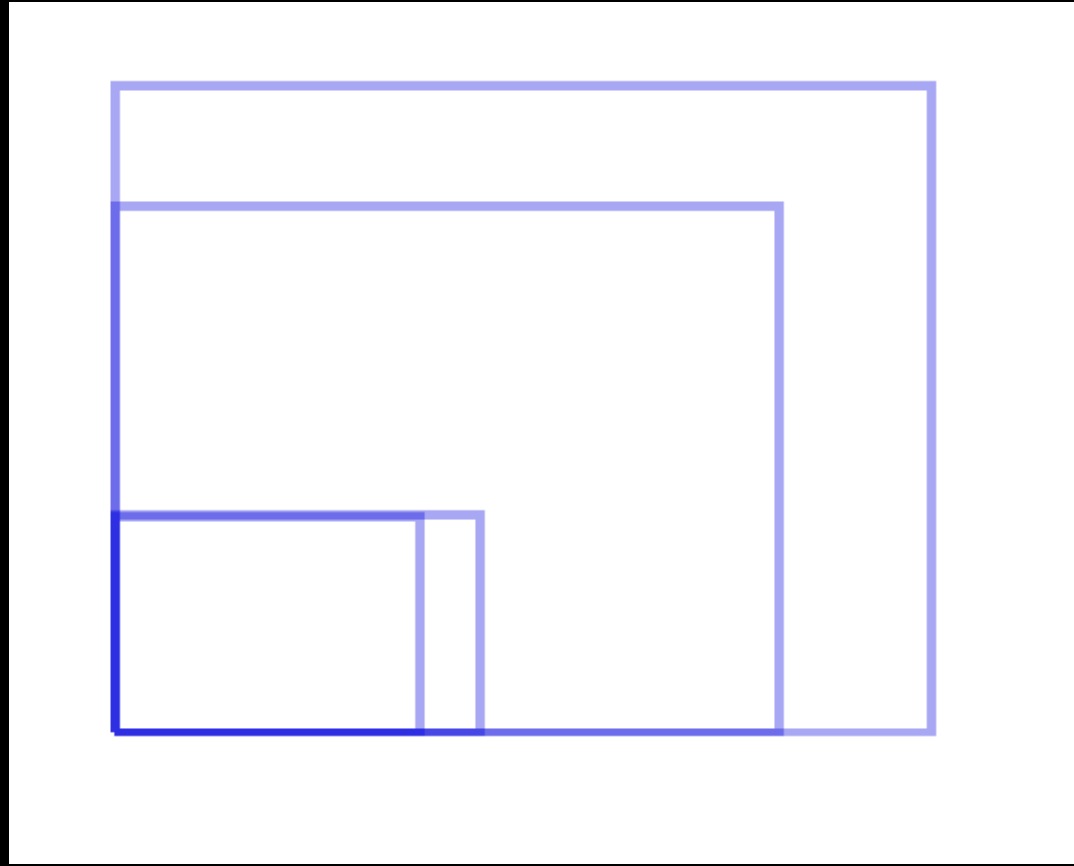


All Platforms:

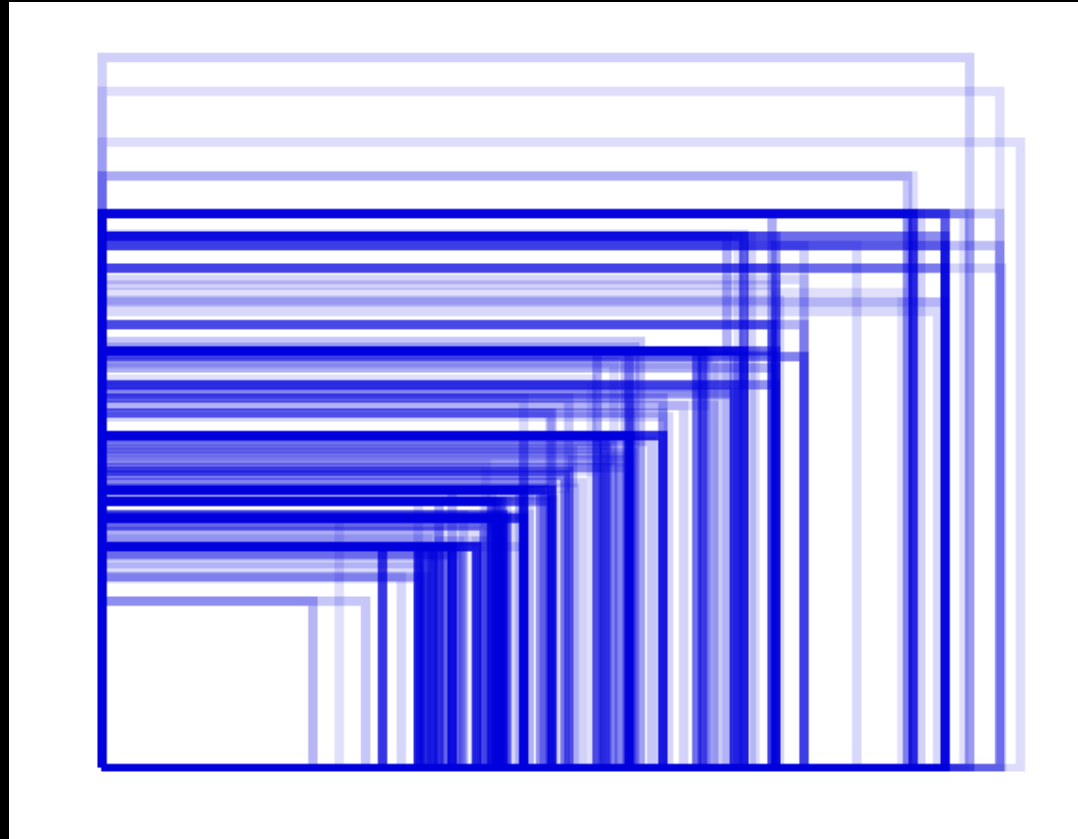
7.X	81.5%
6.X	15.2%
5.X	3.0%
4.X	0.4%



iOS screen fragmentation



Android screen fragmentation



Holy fragmentation, Batman

This is friggin' scary



And that is just Android

...

What are people **really**
using?



Holiday season in Austria

pseudonymized target audience of a B2C website

male or female

age 0 to 99

The stats

different device types: 723

different browser families: 68

Top 5 browser families

1. Safari
2. Chrome
3. Firefox
4. Android Stock Browser
5. Internet Explorer

Viewport is one thing...

Features?

Implementation quality?

Memory?

Resolution?

Browser Speed?

Connection speed?

Parallax Scrolling?





I AM INVINCIBLE

INTRODUCING THE NEW AIRBRAKE MX GOGGLE

BUY ONLINE



FIND IN STORES

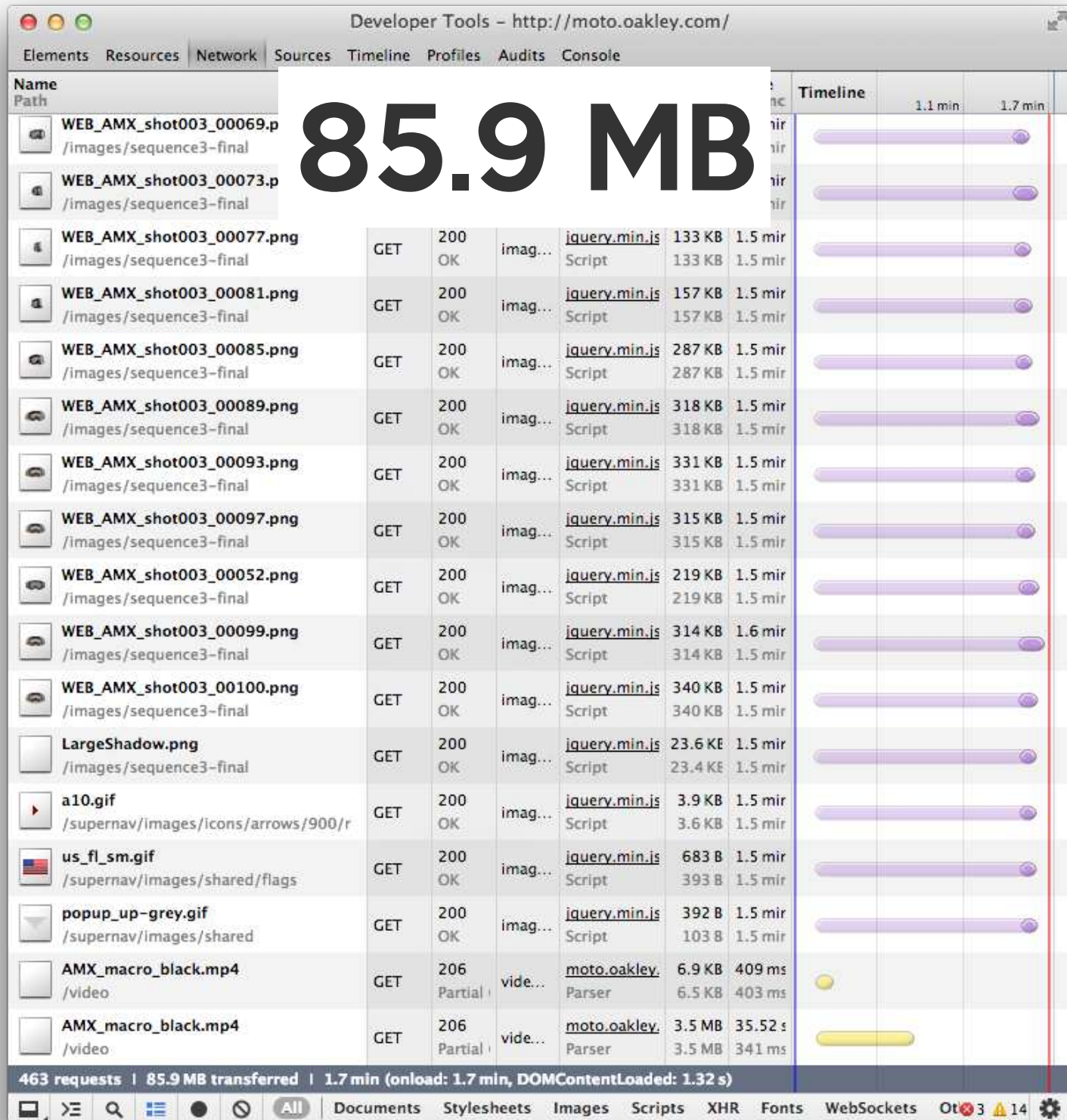


moto.oakley.com

1. 85.4 MB page weight
2. 471 HTTP Requests
3. 2 minutes 45 seconds
until loading screen replaced with content
4. 4 minutes 10 seconds
to wait for onLoad event

**There sure is a mobile
version?**

... oh yeah, there is...



Costs

Roaming in Switzerland for EU clients is 1€ per MB

Costs

vodafone UK charges 1£ per 25 MB

Assumptions

Features: Scrolling

Implementation quality: Tried, trusted and Robust

Memory: A shitload

Resolution: Of course Retina!

Browser Speed: iPad-near JS execution time

Connection speed: Harddrive

Features

SAMSUNG



9:45

http://stefanb.natural.l...



✕ SKIP

DEIN LIEBLINGSKINO

Sag uns dein Lieblingskino, so kommst du während deines Besuches auf cineplexx.at schneller zu deinen Inhalten

Lieblingskino



OK



Anmelden



Sitze



CINEPLEXX



TOP FILME

NEUE FILME

BALD IM KINO



Login



CINEPLEXX



TOP FILME

NEUE FILME

BALD IM KINO



PRAKTI.COM

Filmstart: 25.09.2013

PRAKTI.COM

Film



HIGHLIGHTS

overflow: scroll



-webkit-overflow-scrolling: touch



Feature detection

Test for overflow-scrolling, otherwise use iScroll

```
var has3d = 'WebKitCSSMatrix' in window && 'm11' in new  
            WebKitCSSMatrix()
```

The good:

We did feature detects, and polyfilled in case

The bad:

We **assumed** iScroll will fix all our problems

iScroll **assumed** hardware acceleration is a good idea overall

The ugly:

We broke IE10 on Windows Phone 8



skrollr

parallax scrolling for the masses

let's get scrollin' ;-)



When using skrollr on mobile you don't actually scroll. When detecting a mobile browser skrollr disables native scrolling and instead listens for touch events and moves the content

A classic

```
$('#a').on('click', function() {  
    window.location.href = $(this).attr('href');  
})
```



Don't recreate browser
features

You can't control everything

You can't control **anything**

Brings Parallax back to its roots



```
body { perspective: 1px; transform-style: preserve-3d; }
```

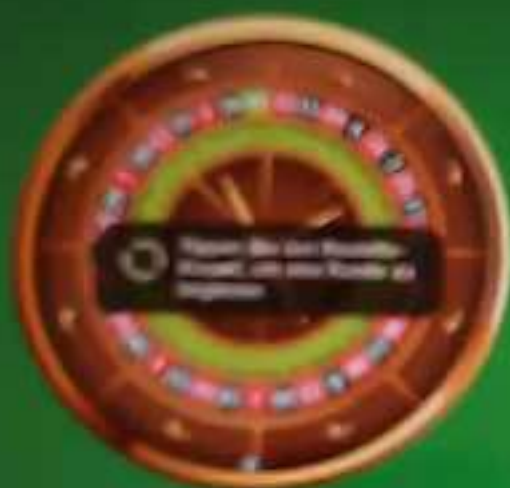
```
.slide:before {  
  position: absolute; top: 0; left: 0;  
  right: 0; bottom: 0;  
  background-image: url("...");  
  transform: translateZ(-1px) scale(2);  
  z-index: -1;  
}
```

<http://codepen.io/keithclark/pen/JycFw>

Implementation quality

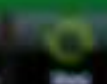


Machen Sie Ihr Spiel



Betrag: 1.000,00

0/2/3			5/8			ORPHE			ZERO			
1	2	3	4	5	6	7	8	9	10	11	12	1 to 12
13	14	15	16	17	18	19	20	21	22	23	24	13 to 24
25	26	27	28	29	30	31	32	33	34	35	36	25 to 36
1st 12				2nd 12				3rd 12				
1 to 12	EVEN			ODD			EVEN			ODD		



meta-Viewport

```
<meta name="viewport" content="width=device-width, initial-  
scale=1.0">
```


meta-Viewport



```
<meta name="viewport" content="width=device-width, initial-  
scale=1.0, maximum-scale=1.0">
```

... not that it does anything ...

```
@media(max-width: 320px) {  
  @ms-viewport { width: 320px }  
}
```



```
@-ms-viewport {  
  width: device-width;  
}
```

[→ Getting Started](#)[🔧 Plugins](#)[📄 Documentation](#)[⚙️ API](#)

GRUNT

The JavaScript Task Runner

Latest Version

- Stable: v0.4.1
- Development: N/A



Ads by [Bocoup](#).

Take the **Front-end Developer Track** at Bocoup Oct 17 - Nov 1st in Boston & save 36%.

Latest News

Why use a task runner?

In one word: automation. The less work you have to do when performing repetitive tasks like minification, compilation, unit testing, linting, etc, the easier your job becomes. After you've configured it, a task runner can do most of that mundane work for you—and your team—with basically zero effort.

Why use Grunt?

The Grunt ecosystem is huge and it's growing every day. With literally hundreds of plugins to choose from, you can use Grunt to automate just about anything with a minimum of effort. If someone hasn't already built what you need, authoring and publishing your own Grunt plugin to npm is a breeze.

-webkit-text-stroke: 4px;



Grunt

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[Discover Dev Tools](#), a free screencast to help you master Chrome Dev Tools.

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Latest News

This is madness!



-webkit-something: something

For what it's worth, the current trend inside Mozilla is exactly what you say: avoiding vendor prefixes by either turning things off before shipping or shipping them unprefixed if they're stable enough.

W3C List

<http://lists.w3.org/Archives/Public/public-webapps/2012OctDec/0731.html>

In short: we won't use vendor prefixes for new features. Instead, we'll expose a single setting to enable experimental DOM/CSS features for you to see what's coming, play around, and provide feedback [...] Only when we're ready to see these features ship to stable will they be enabled by default in the dev/canary channels.

Blink Developer FAQ

<http://www.chromium.org/blink/developer-faq>

Vendor prefixes

for experimental features

experimental means: not stable, not final

not stable: not ready for production

noPrefixes in v3.0



ModernizrProto._config.usePrefixes

```
"options": [  
  "setClasses",  
  "addTest",  
  "html5printshiv",  
  "load",  
  "testProp",  
  "fnBind",  
  "prefixedCSS"  
  "noPrefixes"  
],
```

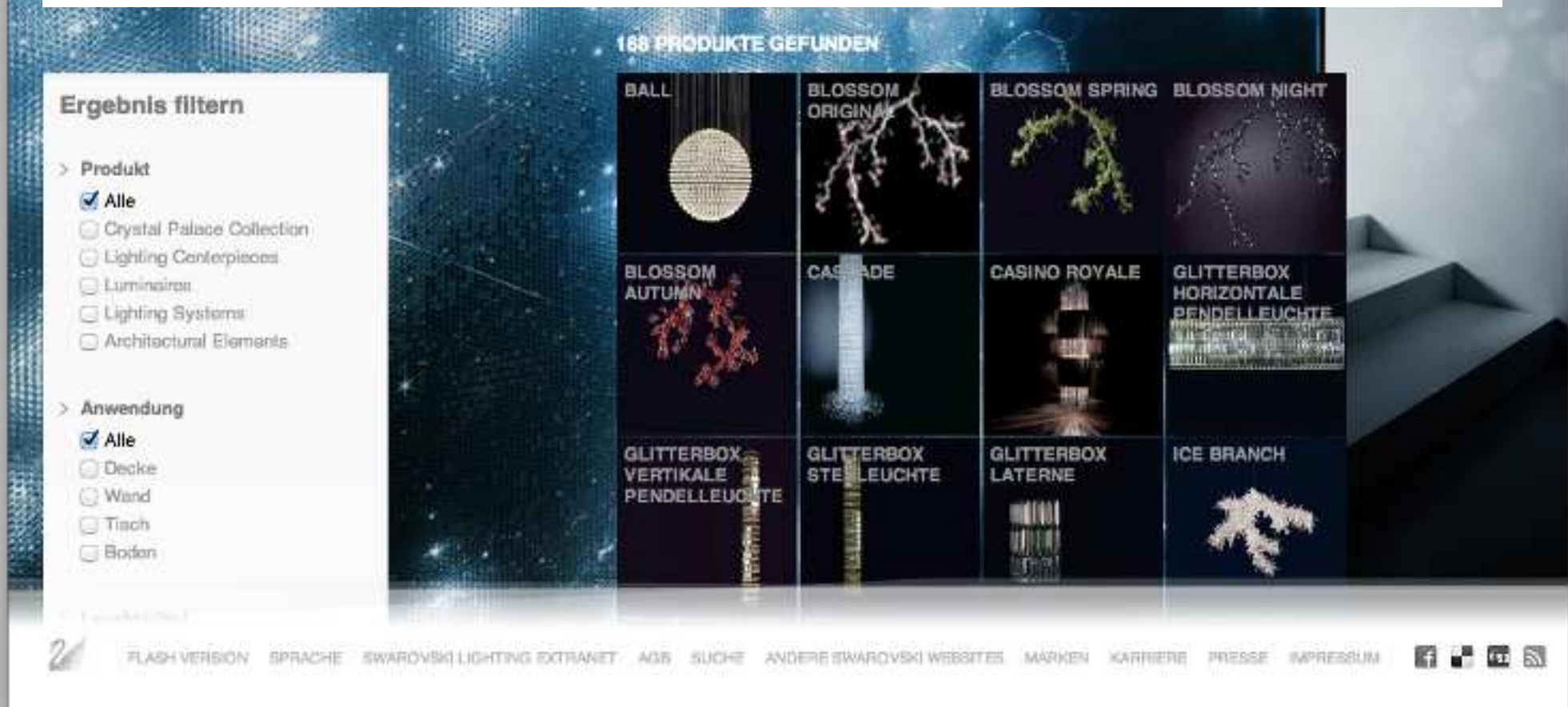
Browser Speed Lightspeed



Truth is ...

**JavaScript takes long to
execute**

```
$('.item.' + filterCriteria).each(function() {  
    $(this).hide();  
});
```



```
$('.filterArea').addClass('.filterCriteria');
```

```
.filterCriteria .hasCriteria {  
  display: none;  
}
```


**Where is JavaScript
necessary?**

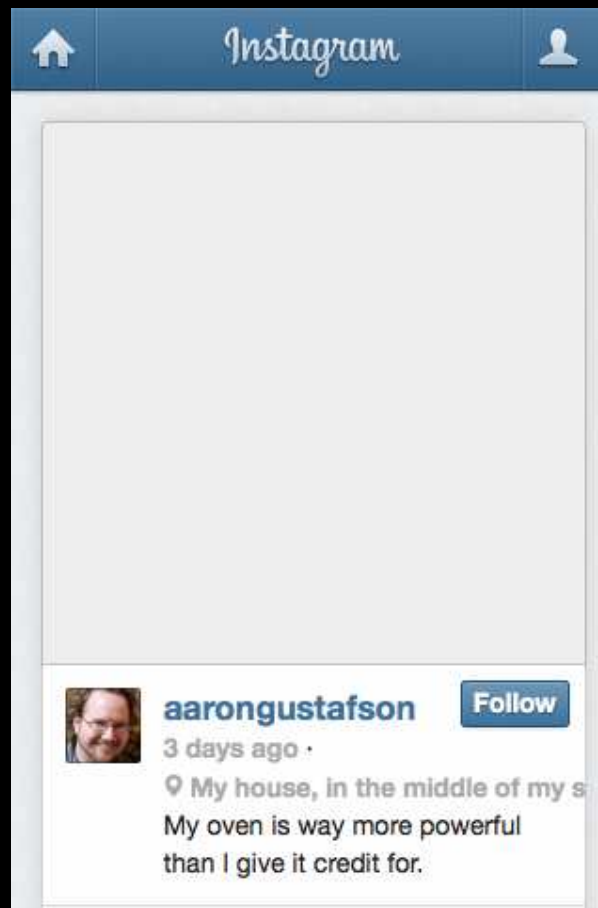
Lanyrd

Lanyrd

User Agent Detection ... done **right**!
Got a slow JS engine? Don't get **any** JS.

Instagram on iOS5

2/13 - 7/13 and since 12/13



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Endodontie

Dentallabor

Neuheiten wohin das Auge reicht!

mehr Infos

NEU

Browsers other than Chrome don't prioritize JS over IMG assets
They take everything in order, to ensure nothing is missing on
execution

Use JavaScript to load content that's only available with
JavaScript

$$13s > 1.4s$$

sighjavascript.tumblr.com

Connection speed



A though one ... but rule of thumb is to **reduce** requests
Load content that is necessary for the first impression

Reduce everything!



What does not kill me
makes me smaller



RESS

Responsive & Server-Side


```
if ($(document).width() > 640) {  
    $.get('path/to/html', function(data){  
        $('[role="complementary"]').append(data);  
    });  
}
```



LUDICROUS SPEED

They're going plaid.

Solutions

Features: Use, when certain that it's there!

Implementation quality: Modern features should be an add-on

Browser Speed: Less JavaScript dependent content

Memory: Optimize Images, reduce Image Footprint

Resolution: See above, use SVG, use Responsive Images!

Connection speed: Fear for worst, reduce requests!

Solutions

Features: Progressive Enhancement

Implementation quality: Progressive Enhancement

Browser Speed: Progressive Enhancement

Memory: Progressive Enhancement

Resolution: Progressive Enhancement

Connection speed: Progressive Enhancement

Progressive Enhancement



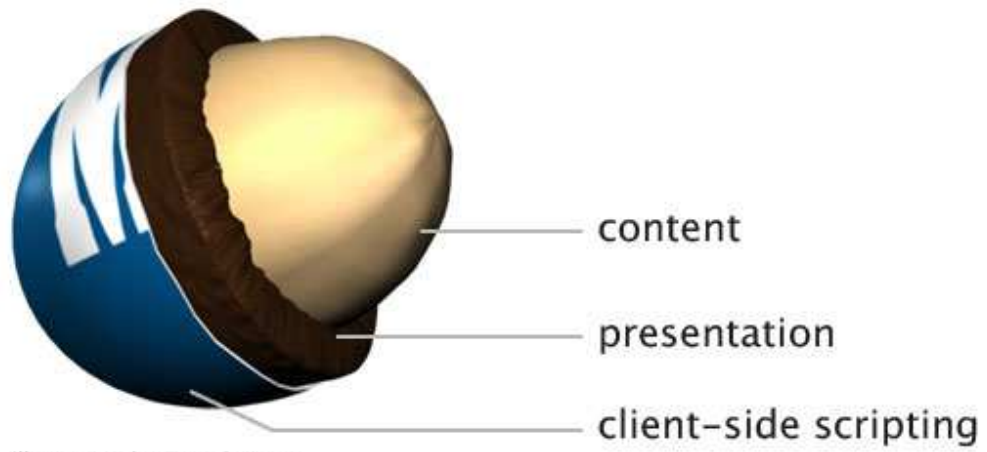


Illustration by Dave Stewart

Progressive Enhancement

Provide a solid (HTML) base, something you trust and know

Enhance your presentation by applying new styles

Enhance further by applying behaviour with JavaScript

Why Progressive Enhancement

**Not only for the old things we
know**



But also for the uncertainty of the future!



workingdraft.de/135



workingdraft.de/137



workingdraft.de/144





