Mission Impossible

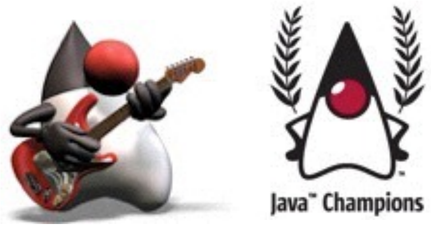
adam-bien.com

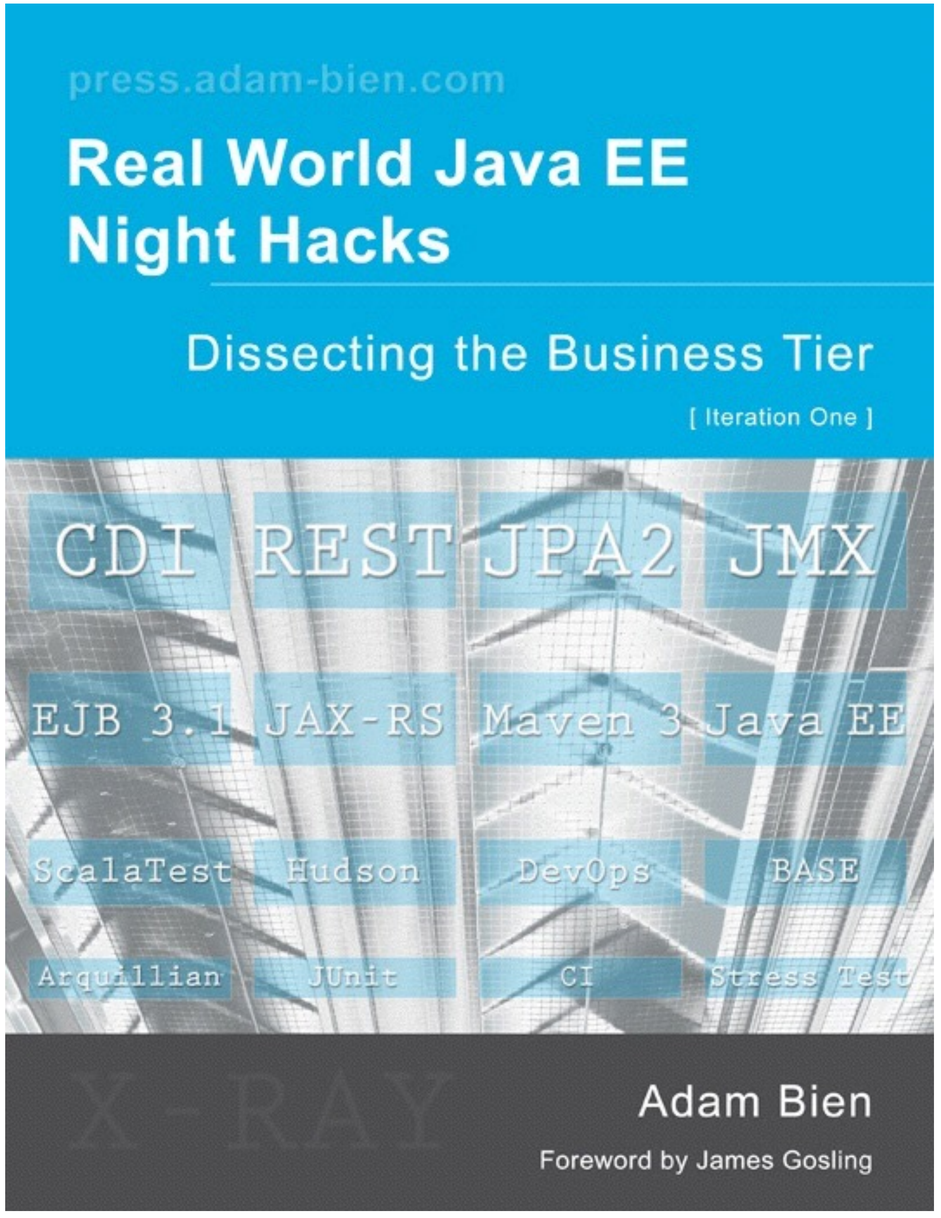
I'm working as Java EE/SE developer, consultant, sometimes author, speaker and trainer with Java since 1995...

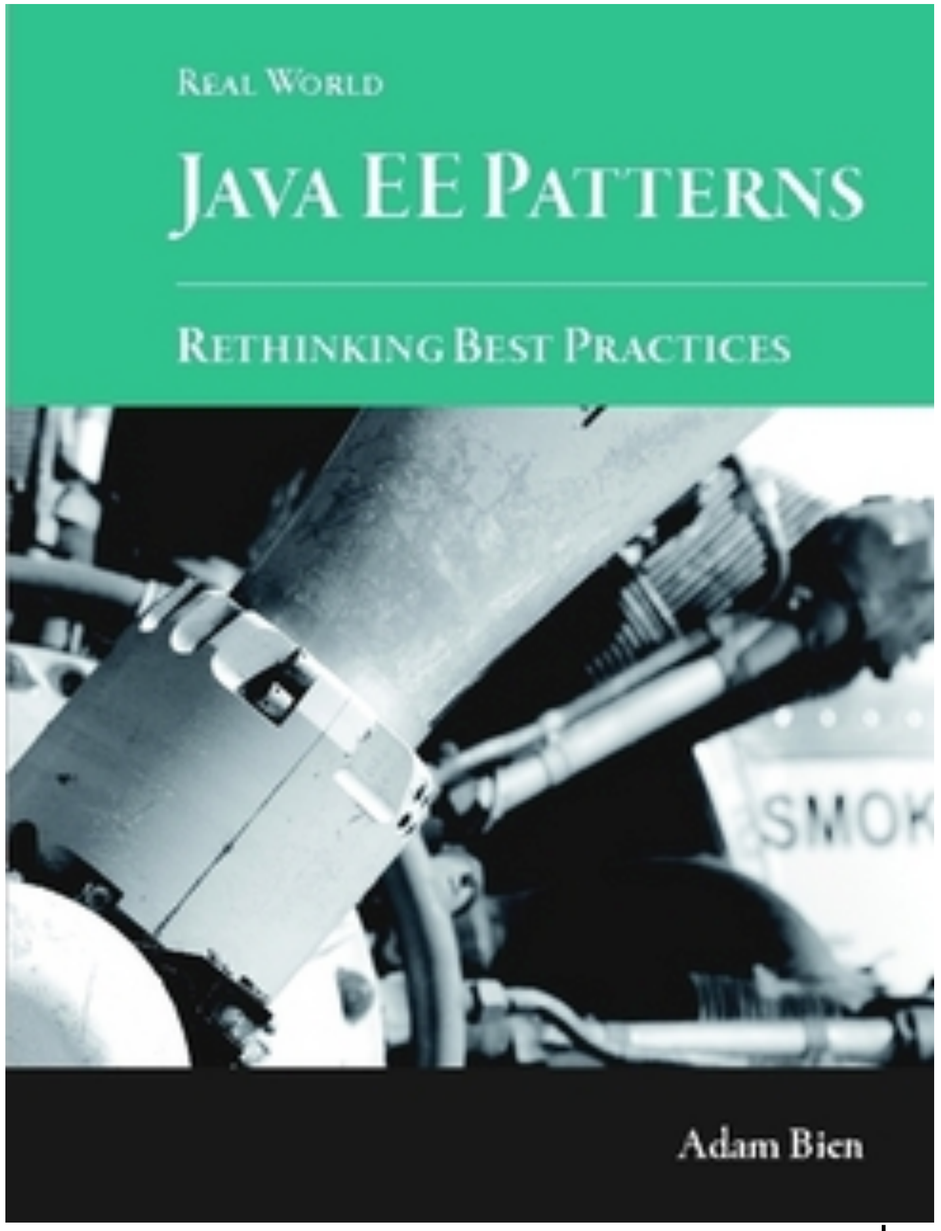
...and still really enjoying it!

Java Programming Language rocks!

workshops.adam-bien.com







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Building HTML 5 Applications With React, October 24th, 2016

NEW:

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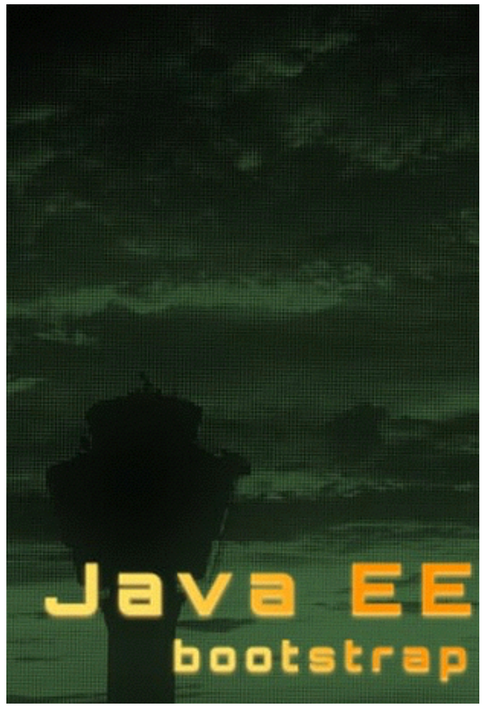
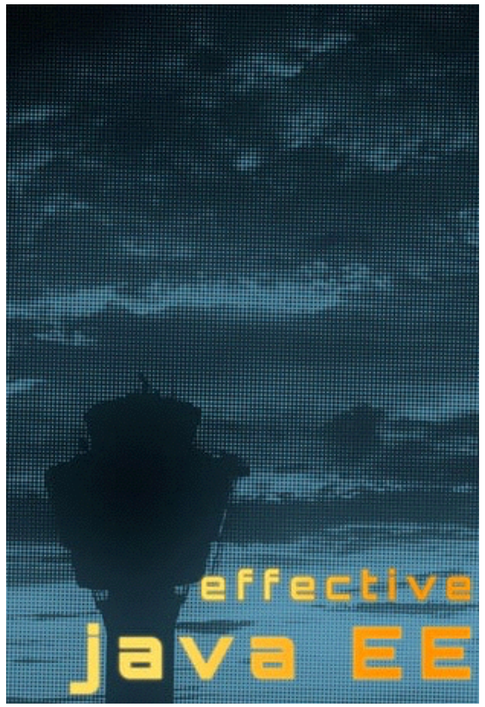
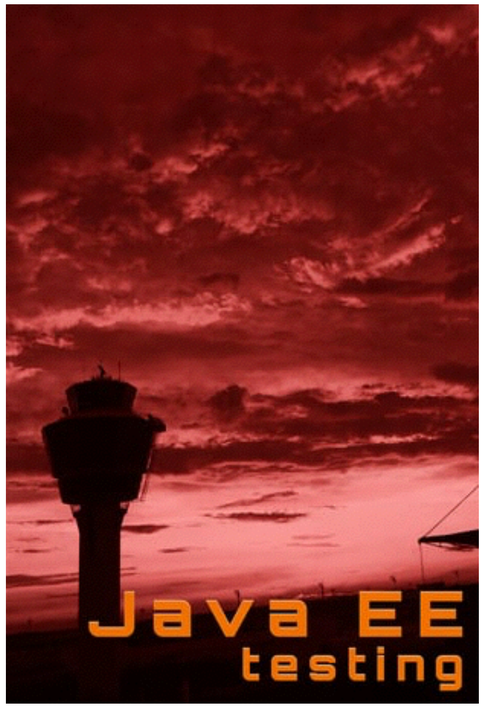

Java EE
bootstrap


effective
java EE


Java EE
testing

Java EE
microservices

airhacks.io

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Dynamic HTML, JavaScript, CSS?

Document Object Model (DOM) Level 3 Core Specification

What is HTML 5?

Semantics / New Elements

Microdata

New Input Types

Webstorage

Geolocation

WebSockets

Offline

Canvas

Web Components

What Is CSS 3?

display

- block ( )
- inline ()
- inline-block
- none

box model

- margin
- padding
- box-sizing (no math)

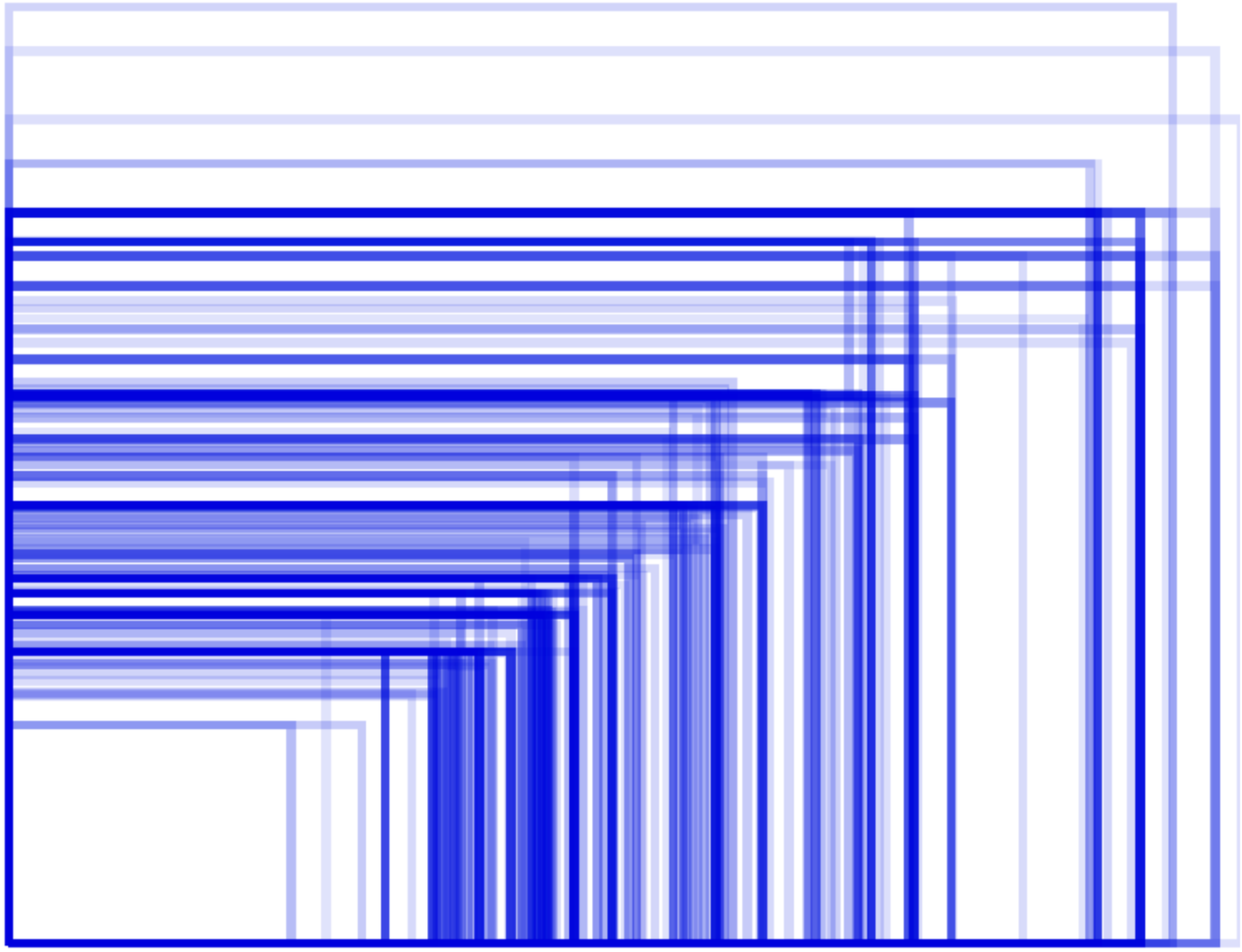
position

- static (default, not positioned)
- fixed (stays at the same place)
- absolute (fixed and relative to the nearest positioned ancestor)
- relative (top, left, right, bottom)

float

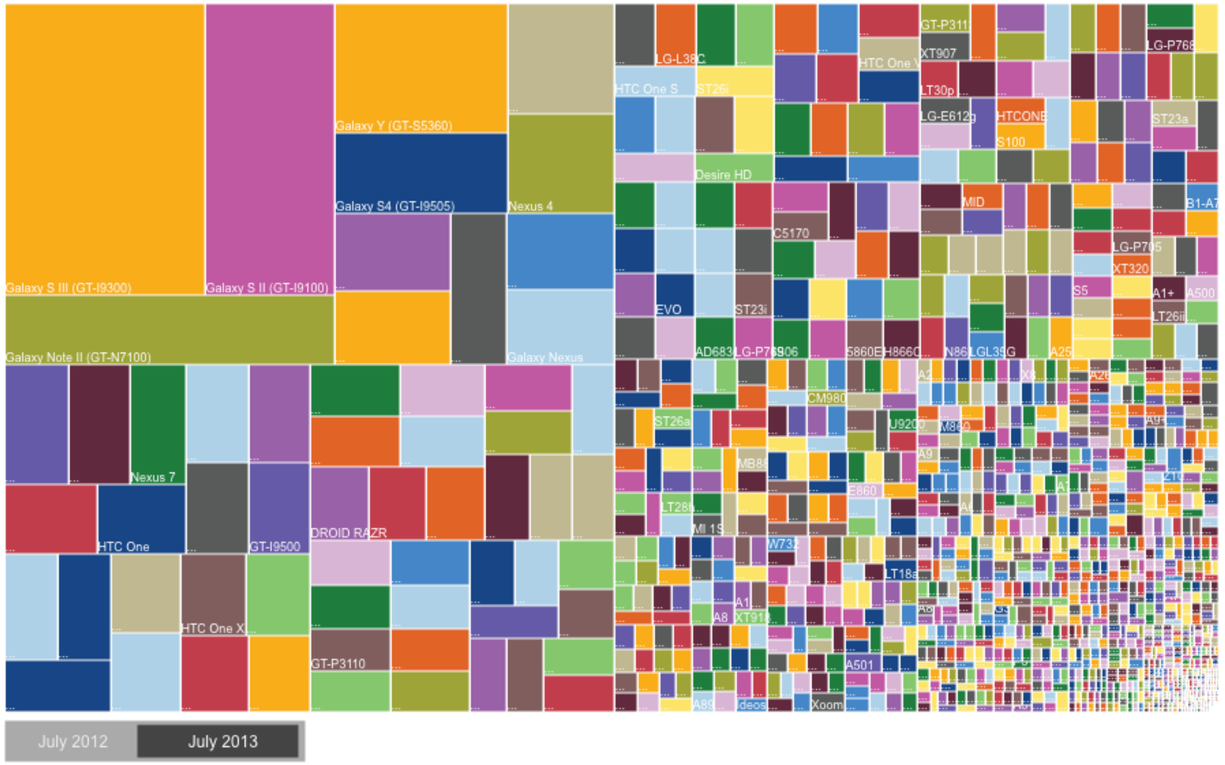
- left, right
- clear: left, right, both

The Gadget Trouble



http://opensignal.com/reports/fragmentation-2013/

DEVICE FRAGMENTATION



11,868
Distinct Android devices seen this year

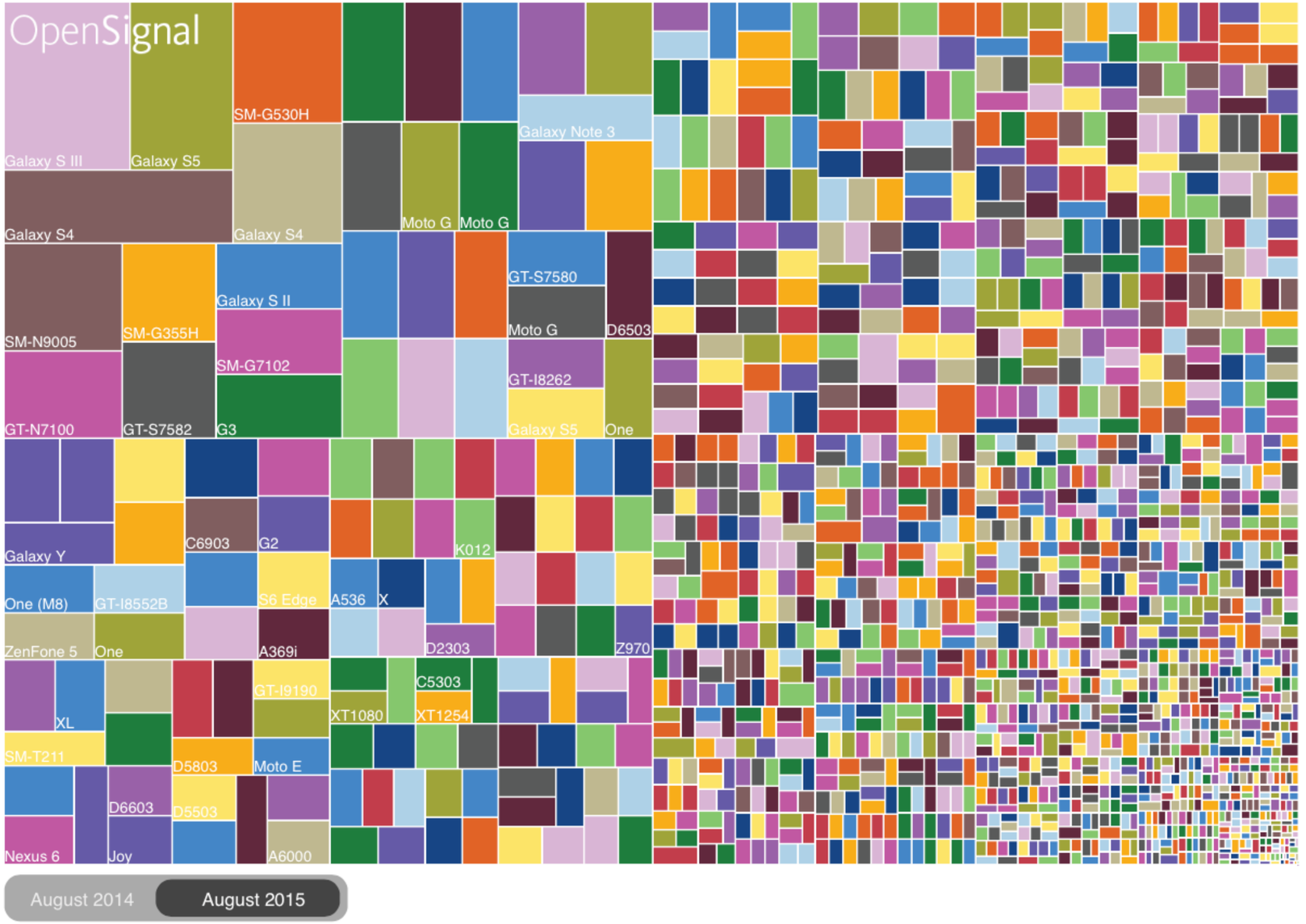
3,997
Distinct Android devices seen last year

682,000
Devices surveyed for this report.

47.5%
Samsung's share of those devices.

8
Android versions still in use

37.9%
Android users on Jelly Bean



24,093

Distinct Android devices seen this year

18,796

Distinct Android devices seen last year

682,000

Devices surveyed for this report.

37.8%

Samsung's share of those devices.

1,294

Device brands seen this year

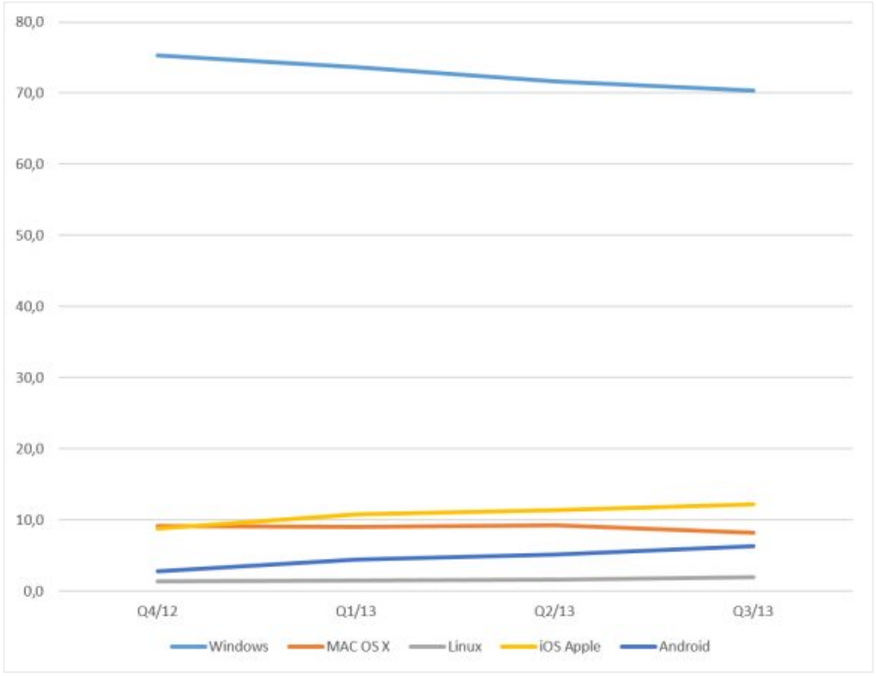
http://opensignal.com/reports/2015/08/android-fragmentation/

Betriebssystem

3. Quartal 2013

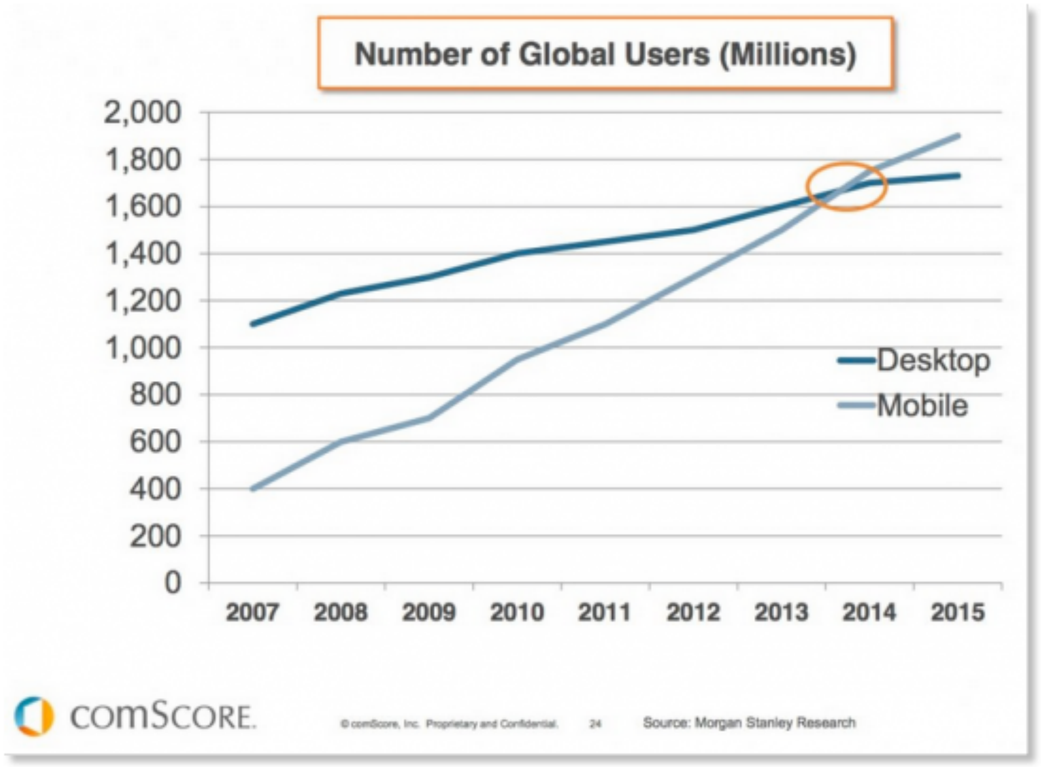
70,3% der Benutzer verwenden Windows als Betriebssystem, 8,2% MAC OS X und 2,0% Linux. Das Mobile Betriebssystem iOS von Apple wird von 12,2% der Benutzer verwendet und Android von 6,3%. Insgesamt erfolgen also 18,5% der Internet-Zugriffe über ein mobiles Gerät.

Entwicklung

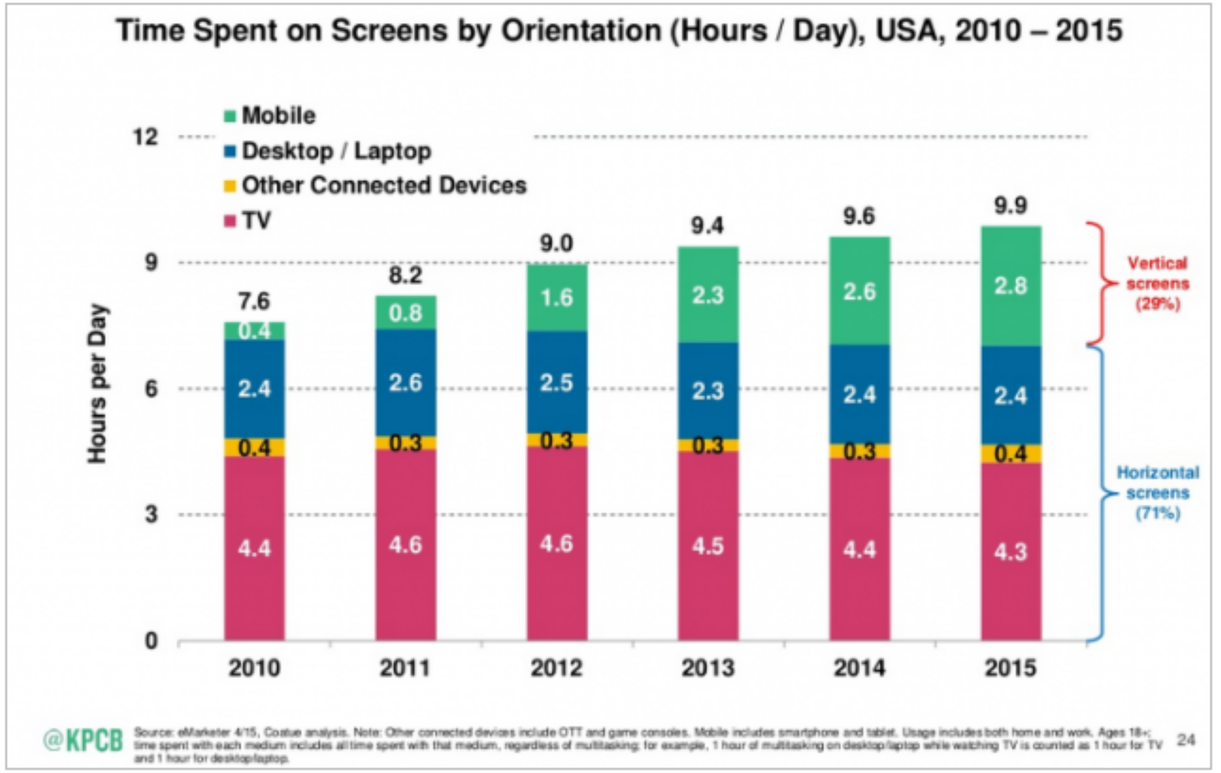


Windows ist das klar am meisten verwendete Betriebssystem. Alledings nahm der Anteil aller anderen Betriebssysteme im Vergleich über das letzte Jahr hinweg zu.

http://converlytics.com/2013/10/webtrekk-webstatistik-q3-2013/



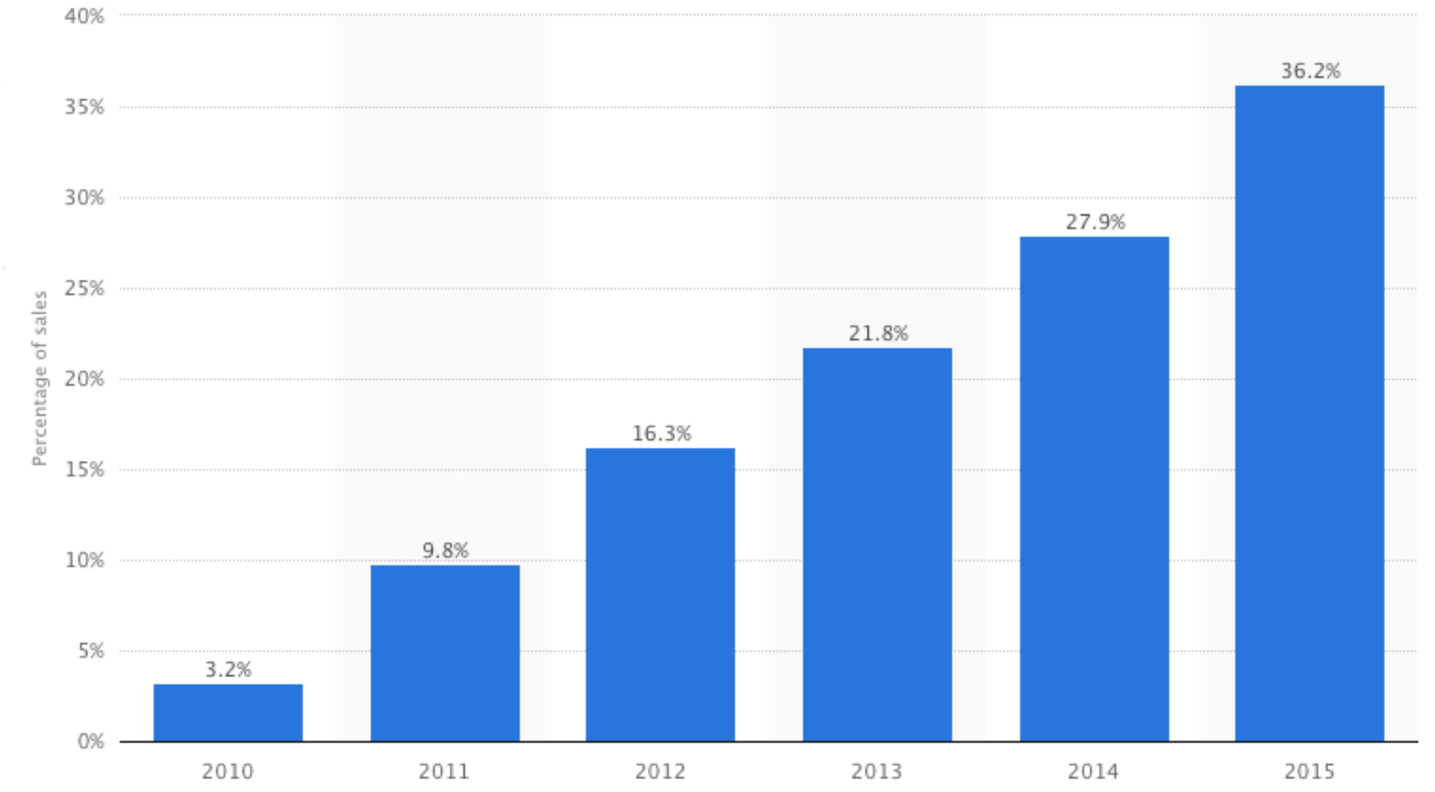
http://www.smartinsights.com/mobile-marketing/mobile-marketing-analytics/mobile-marketing-statistics/



http://www.smartinsights.com/mobile-marketing/mobile-marketing-analytics/mobile-marketing-statistics/

Share of mobile online sales on Black Friday from 2010 to 2015

This statistic gives information on the percentage of mobile online sales on Black Friday from 2010 to 2015. On Black Friday 2015,36.16 percent of online sales were generated via mobile devices, up from 27.91 percent in the previous year.

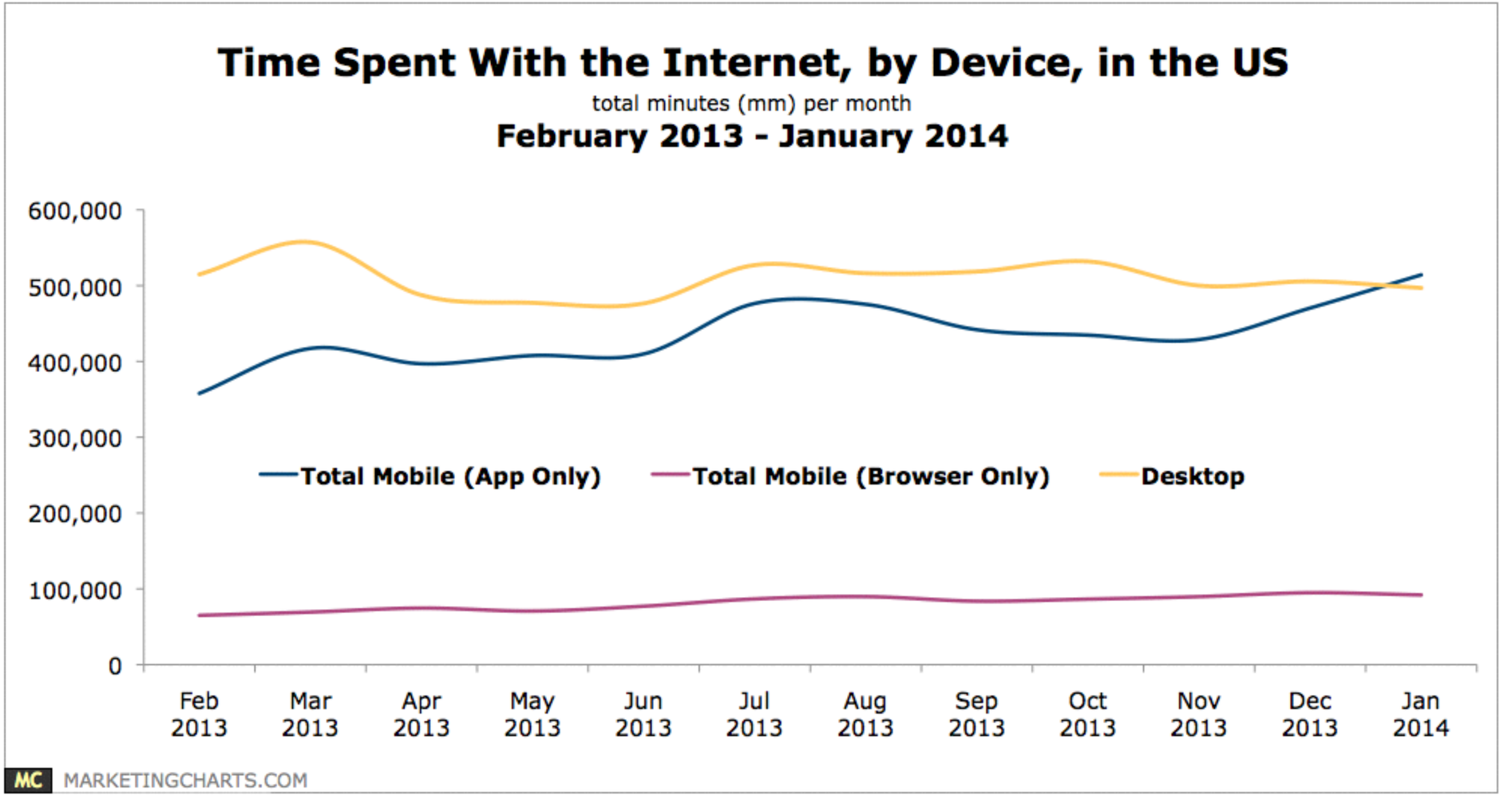


© Statista 2015

Show further information

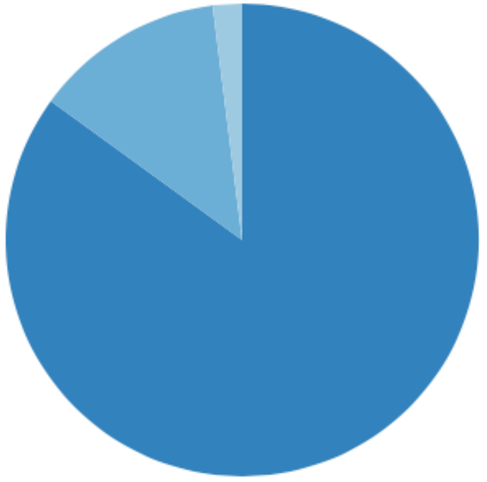
Show sources information

http://www.statista.com/statistics/247195/percentage-of-mobile-black-friday-sales/

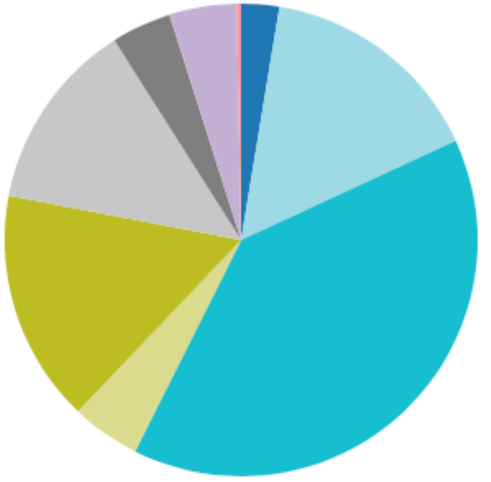


Source: comScore

COMPARISON WITH IOS

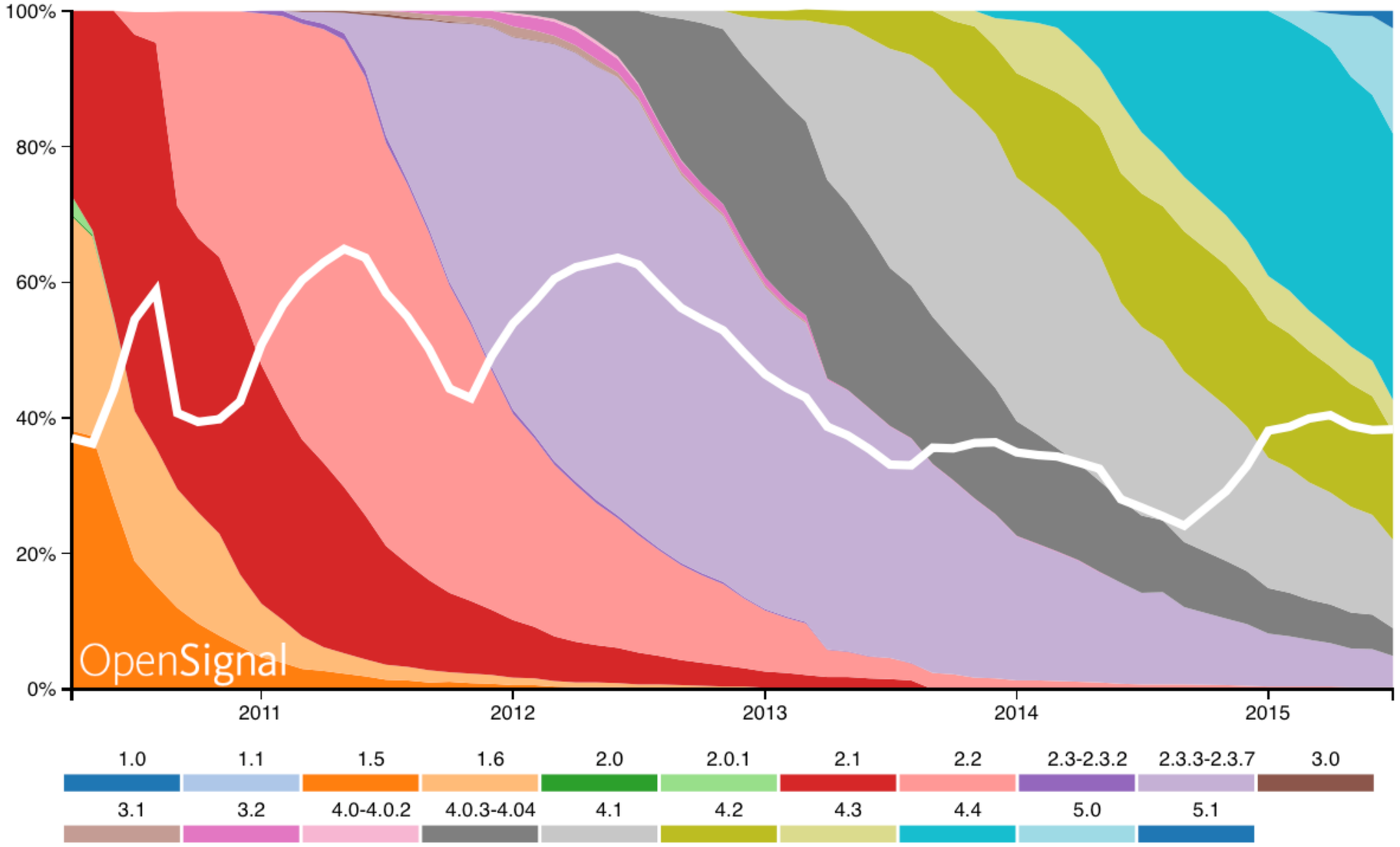


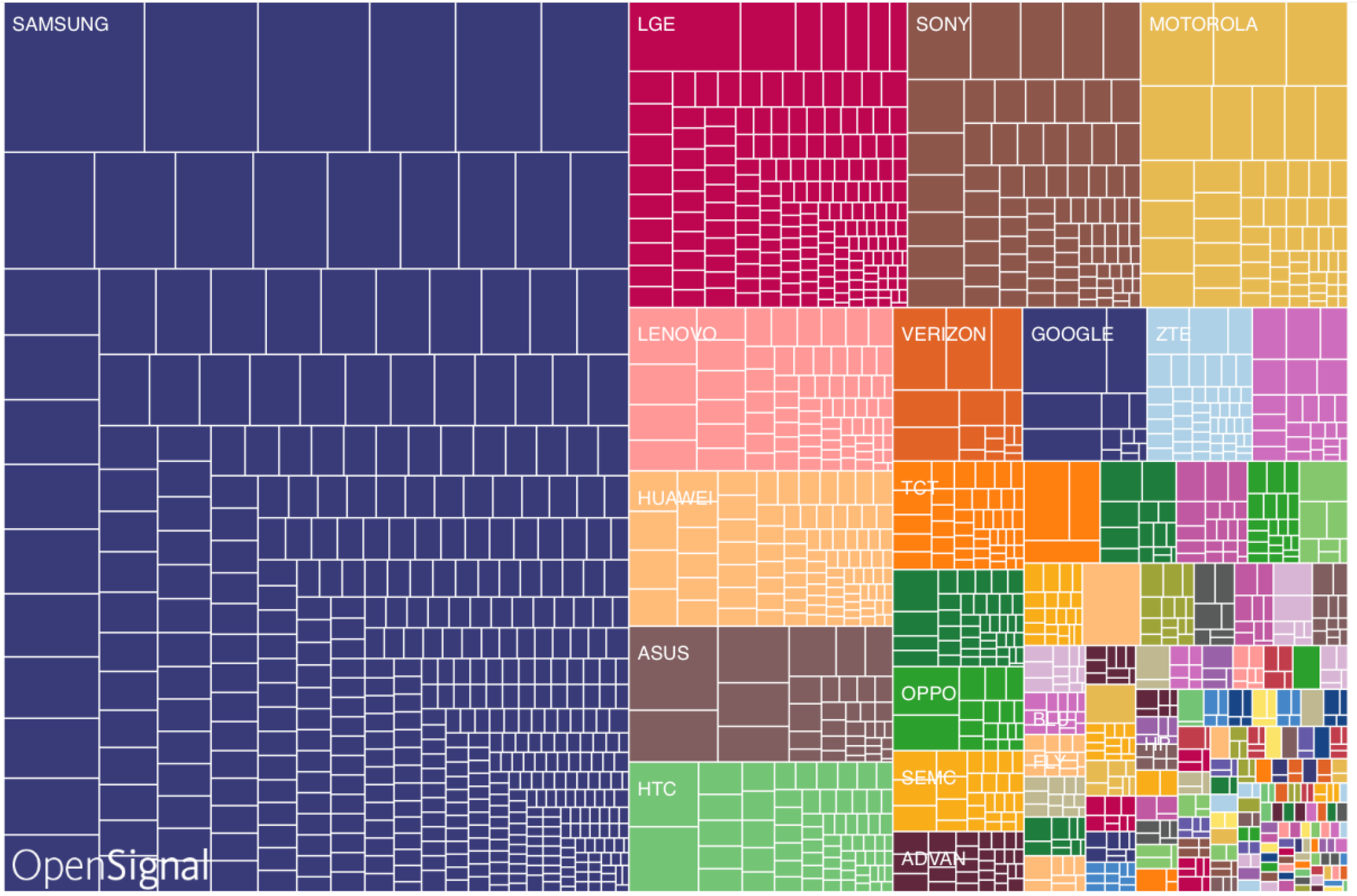
iOS 8 (85%)
iOS 7 (13%)
Earlier Version (2%)



5.1 (Lollipop) (2.6%)
5.0 (Lollipop) (15.5%)
4.4 (Kit Kat) (39.3%)
4.3 (Jelly Bean) (4.7%)
4.2 (Jelly Bean) (15.9%)
4.1 (Jelly Bean) (13%)
4.0.3 - 4.0.4 (ICS) (4.1%)
2.3.3-2.3.7 (Gingerbread) (4.6%)
2.2 (Froyo) (0.3%)

ANDROID OPERATING SYSTEM FRAGMENTATION




SAMSUNG
LGE
SONY
MOTOROLA
LENOVO
VERIZON
GOOGLE
ZTE
HUAWEI
TCT
ASUS
OPPO
BLU
HP
FLY
SEMC
HTC
ADVAN
OpenSignal

em and %

The em is simply the font size. In an element with a 2in font, 1em thus means 2in. Expressing sizes, such as margins and paddings, in em means they are related to the font size, and if the user has a big font (e.g., on a big screen) or a small font (e.g., on a handheld device), the sizes will be in proportion. Declarations such as 'text-indent: 1.5em' and 'margin: 1em' are extremely common in CSS.

Media Queries

Media Queries

```
media_query_list: <media_query> [, <media_query> ]*
media_query: [[only | not]? <media_type> [ and <expression> ]*]
  | <expression> [ and <expression> ]*
expression: ( <media_feature> [: <value>]? )
media_type: all | aural | braille | handheld | print |
  projection | screen | tty | tv | embossed
media_feature: width | min-width | max-width
  | height | min-height | max-height
  | device-width | min-device-width | max-device-width
  | device-height | min-device-height | max-device-height
  | aspect-ratio | min-aspect-ratio | max-aspect-ratio
  | device-aspect-ratio | min-device-aspect-ratio | max-device-aspect-ratio
  | color | min-color | max-color
  | color-index | min-color-index | max-color-index
  | monochrome | min-monochrome | max-monochrome
  | resolution | min-resolution | max-resolution
  | scan | grid
```

https://developer.mozilla.org/en-US/docs/Web/Guide/CSS/Media_queries

Responsive Design

1 / parent font size (px) × required pixels = em

JavaScript Facts / History

Polyfills

HTML 5 -> JavaEE Integration

CORS

- Cross-Origin Resource Sharing
- Browser and Server Solution
- Required For Cross-Domain Communication
- Access-Control-Allow-Origin, Access-Control-Allow-Methods

React, Angular 2, WebComponents and Co.

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References

Input types: https://html.spec.whatwg.org/multipage/forms.html#states-of-the-type-attribute

HTML 5: http://www.w3.org/TR/html/

Web storage: http://dev.w3.org/html5/webstorage/

Geo Location: http://dev.w3.org/geo/api/spec-source.html

WebSockets: http://dev.w3.org/html5/websockets/

Microdata: http://www.w3.org/TR/microdata/

Offline apps: http://www.w3.org/TR/2011/WD-html5-20110525/offline.html

Canvas: http://www.w3.org/TR/2dcontext/

DOM 3 Spec: http://www.w3.org/TR/DOM-Level-3-Core/

Thank You!

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