Responsive Web Design

September 2007

In the US...

52%

of laptop owners also own a smartphone

In the US...

31%

of smartphone owners also own a tablet

In the US...

23%

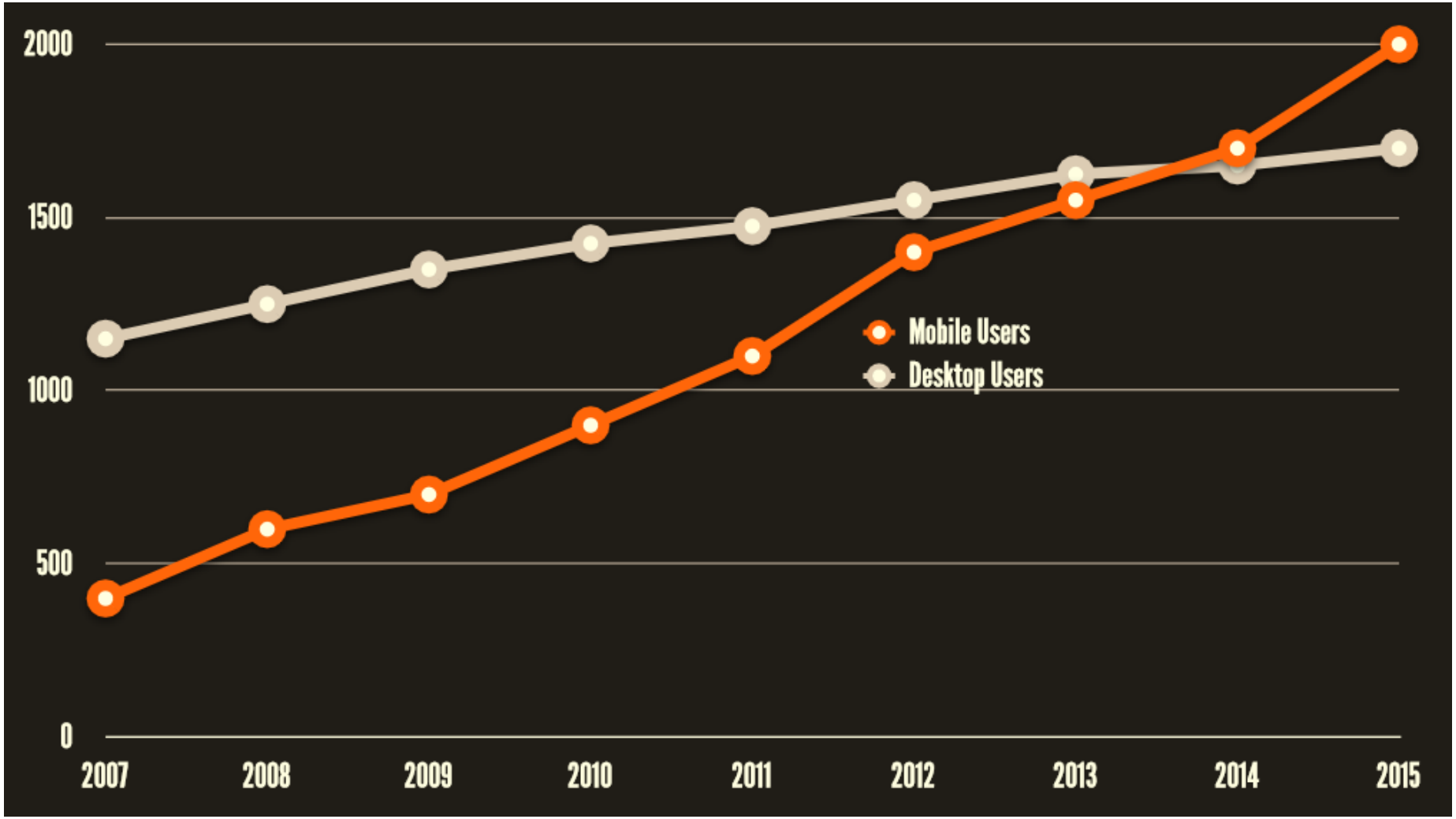
of laptop owners also own a tablet

In the US...

13%

Own a laptop, smartphone and tablet

The web is not fixed width


2000
1500
1000
500
0
2007
2008
2009
2010
2011
2012
2013
2014
2015
Mobile Users
Desktop Users

Flexibility is the new norm.

Peoples are trying to browse websites on these devices.

Today.

Responsive Web Design.

A Fluid Foundation

Honor the proportions of the design by creating percentage-based grids instead of fixed-width, pixel-based grids.

A Fluid Foundation

- <!-- one column -->
-

- <!-- two columns -->
-

- <!-- three columns -->
-

A Fluid Foundation

FIXED-WIDTH

```
.span-1 {
 width: 90px;
}
```

FLUID

```
.span-1 {
 width: ??%;
}
```

Media Queries

When our content and our design are no longer working in harmony, we need to make a larger shift in layout.

Media Queries

<link media="(min--width: 30em)" ...

<link media="screen and (min--width: 30em)" ...

@media (min--width: 30em) { ... }

@media screen and (min--width: 30em) { ... }

@media print { ... }

Media Features

width, height, device-width, device-height
orientation aspect-ratio, device-aspect-ratio color, color-index, monochrome resolution, scan, grid

http://www.w3.org/TR/css3-mediaqueries

What is Bootstrap

- **Open Source Framework for Building** Web Sites
  - A bit of CSS
  - A bit of JavaScript
  - Modular
  - Covers the 80% of the Metaphors