

GT3 – Tecnologías / III Reunión de la RedDes
Panel 3 – Accesibilidad

Accesibilidad y Diseño Responsivo

Julio Takayama

Julio.takayama@bireme.org

Comunicaciones, Diseño Gráfico e Interfaces

BIREME/OPS/OMS

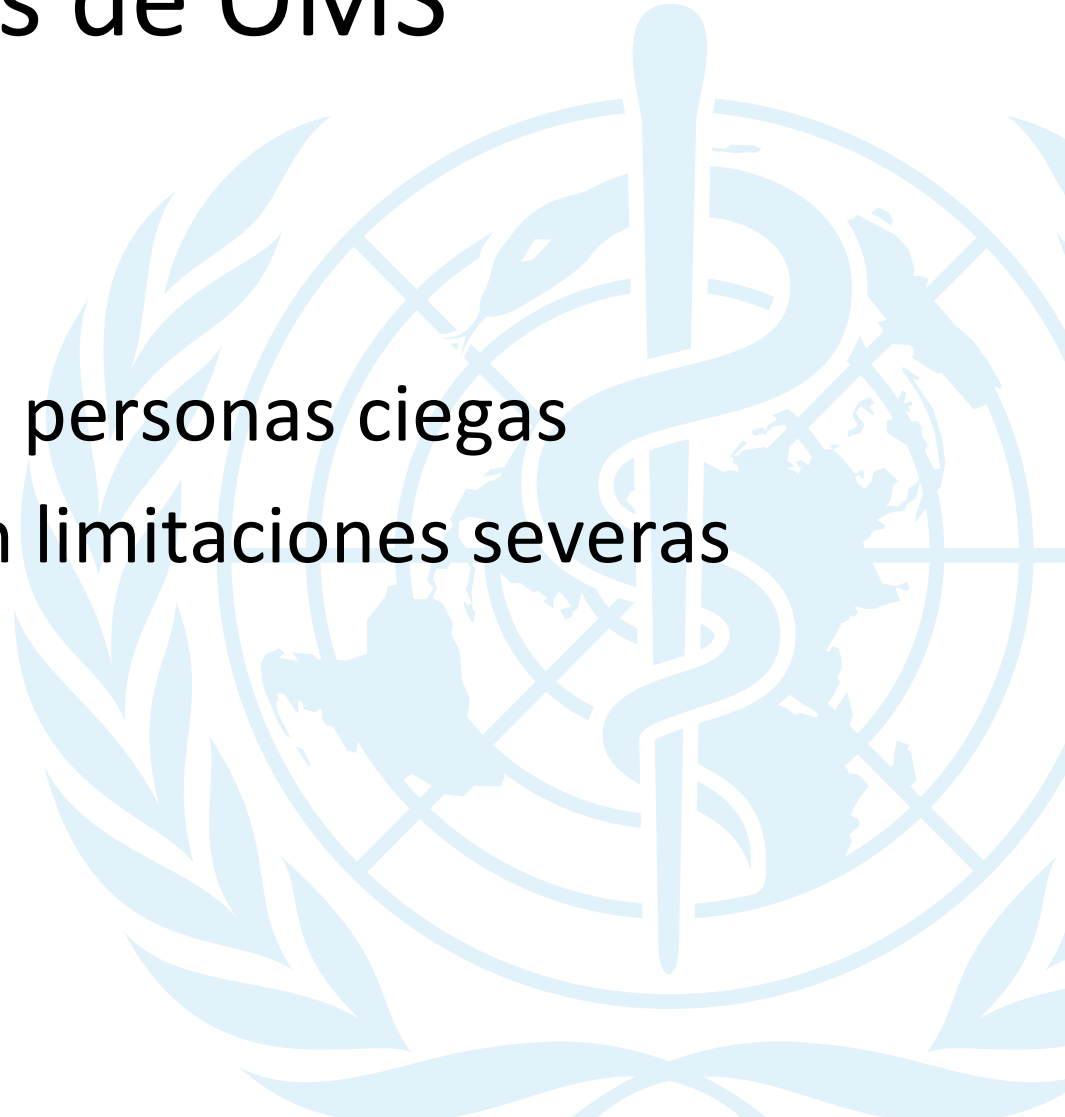
Tópicos

- Datos Estadísticos
- Adaptación vs Optimización
- Diseño Responsivo - ¿Qué es?
- Qué y Cómo implementar



Datos de OMS

- 40 a 45 millones de personas ciegas
- 135 millones sufren limitaciones severas





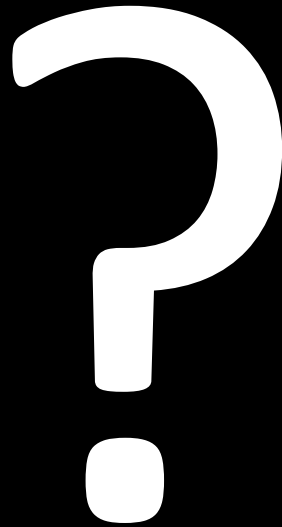


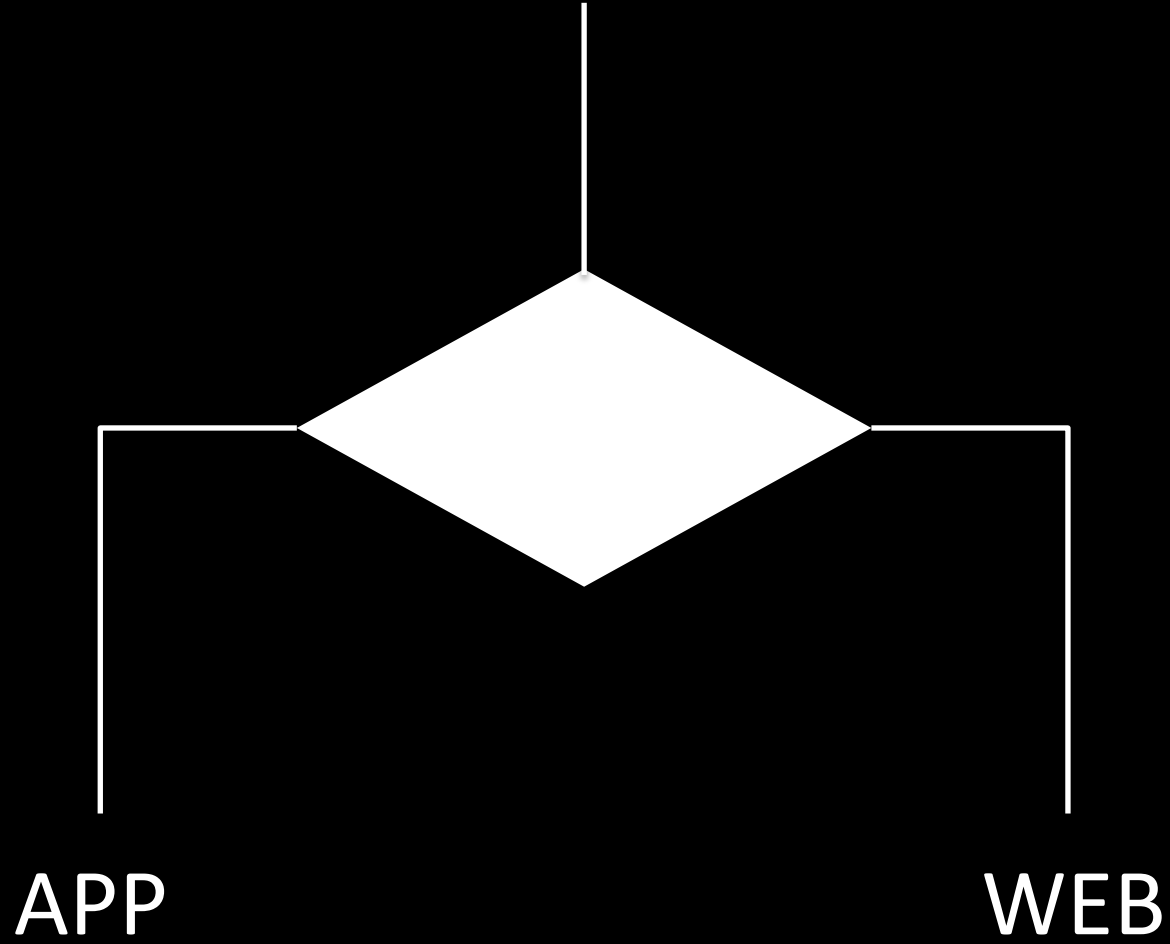
Móvil ya no es opcional



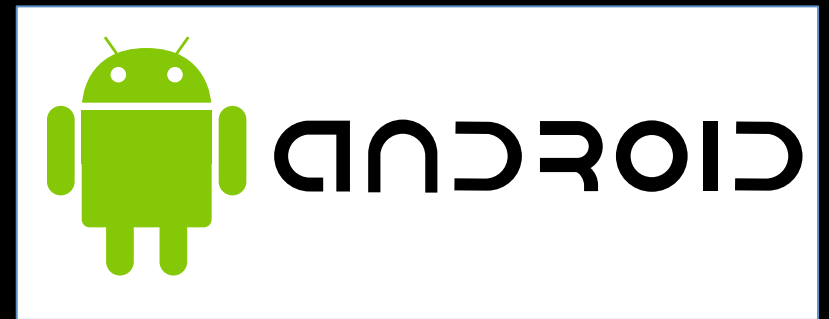
49.7% de los usuarios de telefonía móvil en los EEUU tienen Smartphone
02/2012

To App or not to App





APP





Web Responsivo

Apache CouchDB

The image displays four versions of the Apache CouchDB website, illustrating its responsive design across different screen sizes:

- Mobile View (Leftmost):** The website is displayed in a narrow column. The main heading "Apache CouchDB™ is a database that uses JSON for documents, JavaScript for MapReduce queries, and regular HTTP for an API" is truncated. The "A Database for the Web" section is also truncated.
- Small Tablet View (Second from Left):** The layout is slightly wider, but the text remains truncated to fit the screen.
- Medium Tablet View (Third from Left):** The layout is wider still, with more text visible, though some truncation remains.
- Desktop View (Rightmost):** The website is displayed in its full width. The main heading and the "A Database for the Web" section are fully visible and formatted for a wide screen.

Each screenshot shows the Apache CouchDB logo, navigation links (About, Contribute, Hall of Fame, Download, Quick Links), and the "DOWNLOAD" button.

Diseño Responsivo - ¿Qué es?

- HTML5 + CSS3
 - Proporcionar una buena experiencia de usuario no importa el navegador o dispositivo de acceso
- Plantillas flexibles
 - Unidades de medida relativas
 - Fluid grids
 - Fluid images
- Media Queries

Diseño Responsivo - ¿Qué es?

- Progressive Enhancement
 - Steven Champeon (Marzo / Junio, 2003)
[series de artículos y presentations para Webmonkey](#)
- Responsive Web Design
 - Ethan Marcotte (May 25, 2010).
["Responsive Web Design". A List Apart.](#)
- Adaptive Web Design
 - Aaron Gustafson (Mayo, 2011)

Diseño Responsivo – Beneficios

- Beneficios en Accesibilidad
- Beneficios para SEO
- Markup semántico
- Buena relación de costo/beneficio para implementación y mantenimiento

Frameworks

- Skeleton
<http://www.getskeleton.com/>
- Foundation
<http://foundation.zurb.com/>
- Inuit CSS
<http://csswizardry.com/inuitcss/>
- Twitter Bootstrap / Less
<http://twitter.github.com/bootstrap/>



Twitter Bootstrap - Scaffolding

Live fluid grid example

The fluid grid system uses percents instead of pixels for column widths. It has the same responsive capabilities as our fixed grid system, ensuring proper proportions for key screen resolutions and devices.





Twitter Bootstrap - Scaffolding

Live fluid grid example

The fluid grid system uses percents instead of pixels for column widths. It has the same responsive capabilities as our fixed grid system, ensuring proper proportions for key screen resolutions and devices.

1

1

1

1

1

1

1

1

1

1

1

1

Basic fluid grid HTML

Make any row "fluid" by changing `.row` to `.row-fluid`. The column classes stay the exact same, making it easy to flip between fixed and fluid grids.

```
1. <div class="row-fluid">
2.   <div class="span4">...</div>
3.   <div class="span8">...</div>
4. </div>
```




Twitter Bootstrap - Devices

Supported devices

Bootstrap supports a handful of media queries in a single file to help make your projects more appropriate on different devices and screen resolutions. Here's what's included:

Label	Layout width	Column width	Gutter width
Phones	480px and below	Fluid columns, no fixed widths	
Phones to tablets	767px and below	Fluid columns, no fixed widths	
Portrait tablets	768px and above	42px	20px
Default	980px and up	60px	20px
Large display	1200px and up	70px	30px

```
1. /* Landscape phones and down */
2. @media (max-width: 480px) { ... }
3.
4. /* Landscape phone to portrait tablet */
5. @media (max-width: 767px) { ... }
6.
7. /* Portrait tablet to landscape and desktop */
8. @media (min-width: 768px) and (max-width: 979px) { ... }
9.
10. /* Large desktop */
11. @media (min-width: 1200px) { ... }
```



6ª Reunión de Coordinación Regional
de la Biblioteca Virtual en Salud

BVS6

20 y 21 de octubre de 2012
Washington, DC - EUA

¡Muchas Gracias!

Julio Takayama

Julio.takayama@bireme.org

Comunicaciones, Diseño Gráfico e Interfaces

BIREME/OPS/OMS