Responsive Web Design

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For info on Bootstrap and lots of documentation

http://getbootstrap.com/

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All files (including bootstrap) are here :

https://goo.gl/ESbjPh

Download zip and extract into a directory

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Responsive Web – Intro

- Gentle introduction to responsive web design using the Bootstrap framework
  - Separate design from presentation
  - Make webpages responsive to client device (desktop, tablet, smartphone)
- Examples are built up simply
  - Small changes made so it should be easy to see how improvements are achieved
  - Display webpage in browser
    - Look at source code of the webpage to see how it works

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Responsive Web – Step 1

- A first page (eg1.html)
  - Heading
  - Paragraph

- Improvement (eg1_1.html)
  - Add bootstrap stylesheet

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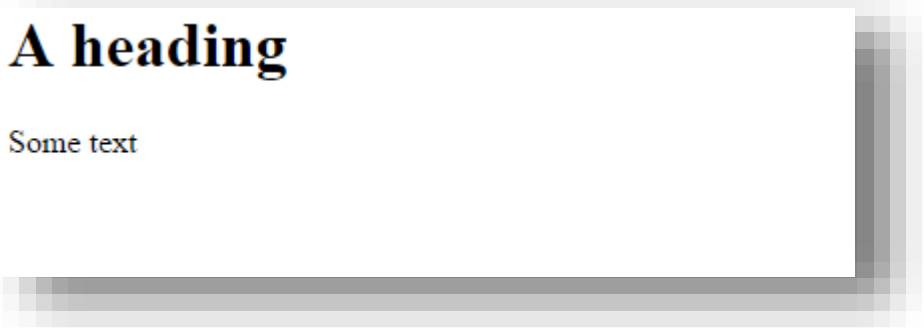
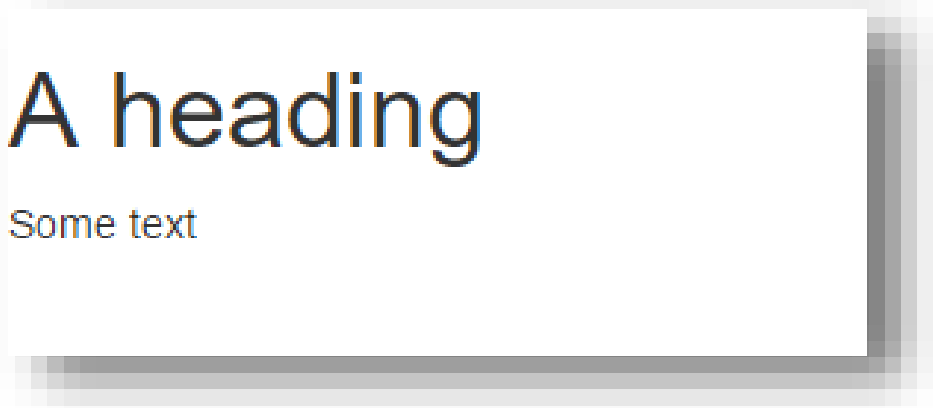


eg1.html – default style



eg1_1.html – bootstrap style

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Responsive Web – Step 2

- Introducing containers (eg2.html)
  - Note indentation

- Use custom stylesheet (css/template.css)
  - Change background colour for body tag (eg2_1.html)
    - HINT look at background-color attribute
  - Note that webpage appearance is changed WITHOUT changing webpage content

  - Add custom style for part of page (eg2_2.html)
    - Note use of div
    - Look at major style definition. Change font size and see effect.

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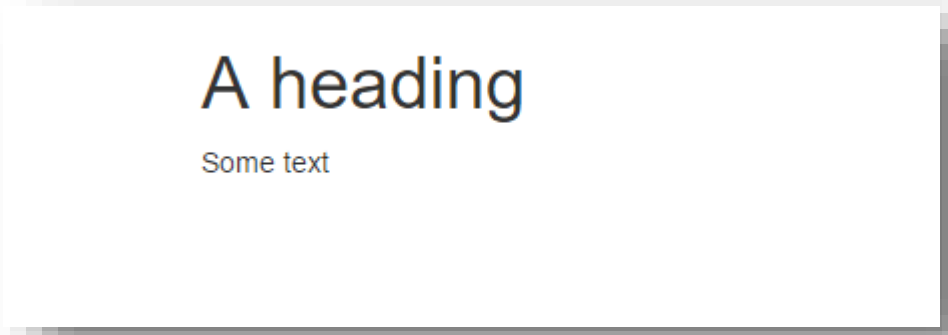
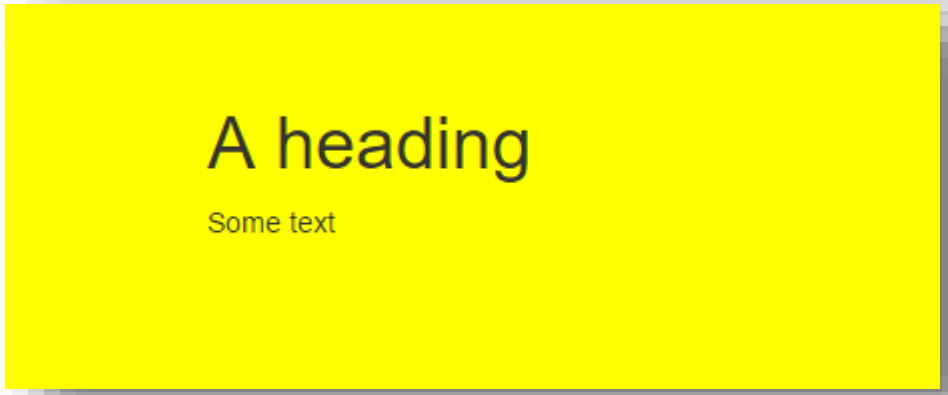


eg2.html – using containers



eg2_1.html – custom style

eg2_2.html – custom style and div

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Responsive Web – Step 3

- Adding Navigation menu bar (eg3.html)
  - Reduce browser window size (width) to see effect on menu
- Making it responsive (eg3_1.html)
  - Reduce browser window width and see different (and better!) effect which is more usable on smaller devices
- NOTE look at end of file for including Javascript files required to support responsive behaviour

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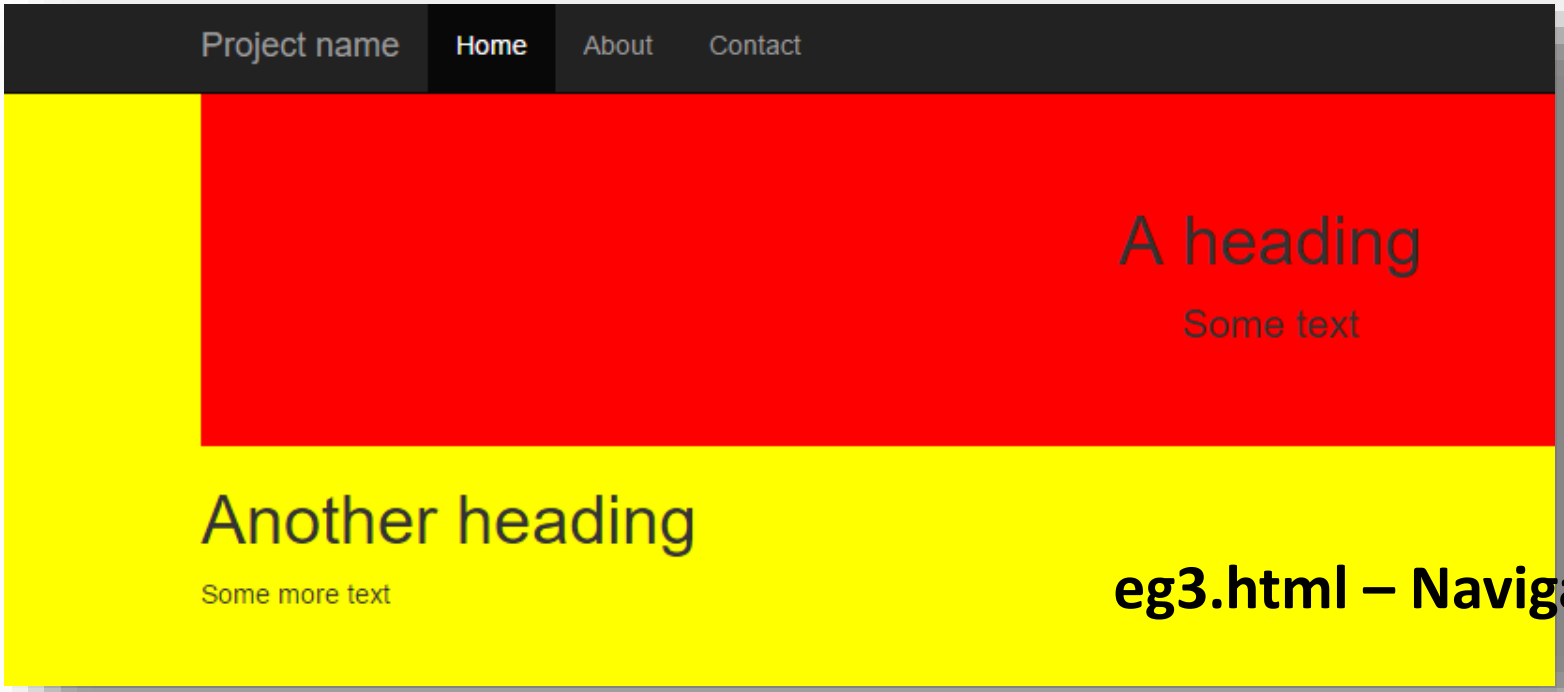

eg3.html – Navigation bar

eg3_1.html – Responsive navigation

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Responsive Web – Step 4

- Adding Content (eg4.html)
  - Making it responsive using grids
    - Note use of ROW class and COL-LG-4
  - See what happens when browser width changes
  - Gridsize is 12 columns. Adjust column sizes accordingly if more or less columns required.

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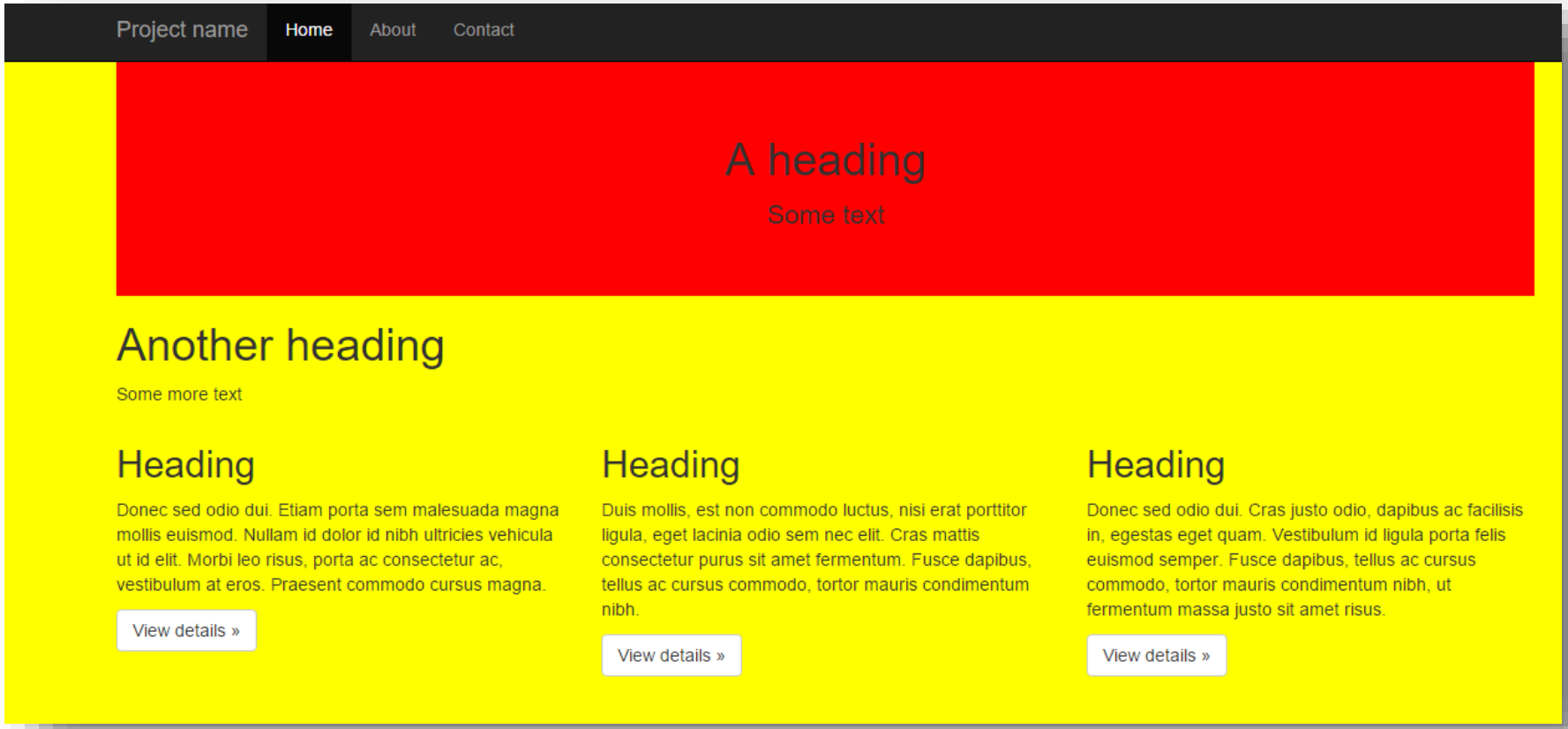

eg4.html – Add content in columns

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Responsive Web – Step 5

- Lots of additional tools for displaying content.

- Final example is use of a carousel (eg5.html)

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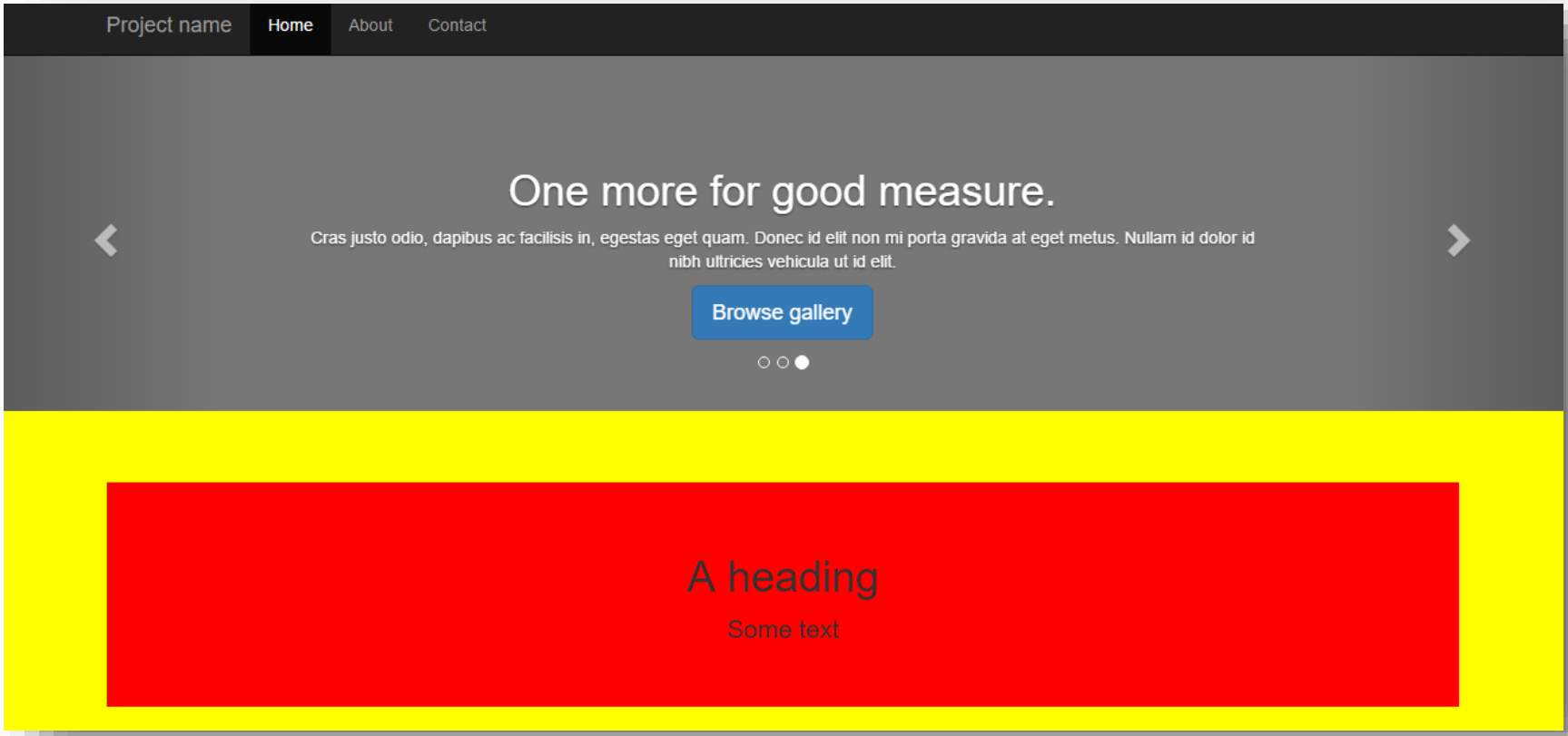

eg5.html – Carousel

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Responsive Web – Next steps

- Look at Bootstrap examples and templates for more ideas
- Look at the bootstrap components and experiment
- Build multi-page website with consistent style
  - Remember to include same stylesheets on ALL pages!

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Resources

- http://getbootstrap.com

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