Grids + Bootstrap

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Agenda

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- Goals
- Referencing Bootstrap
- Fun with Grids :)
- Bootstrap Playground (CSS, Component, JavaScript)
- **Fooooood! 2.0**
- Explore Bootstrap prototyping tools
- Bootstrap 4.0
- Summary

Goals

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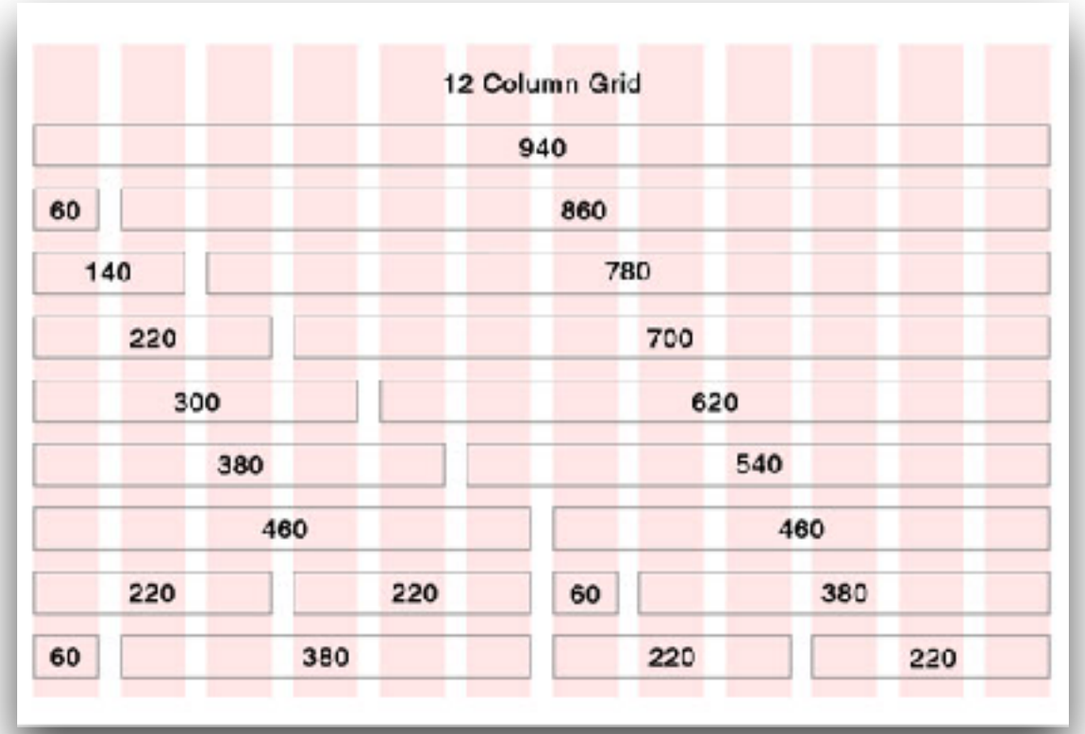
- Appreciate a “real” grid system
- Begin getting comfortable with a ranges of aspects of Bootstrap (including it’s CSS, components, and JavaScript, etc)

Grid Systems

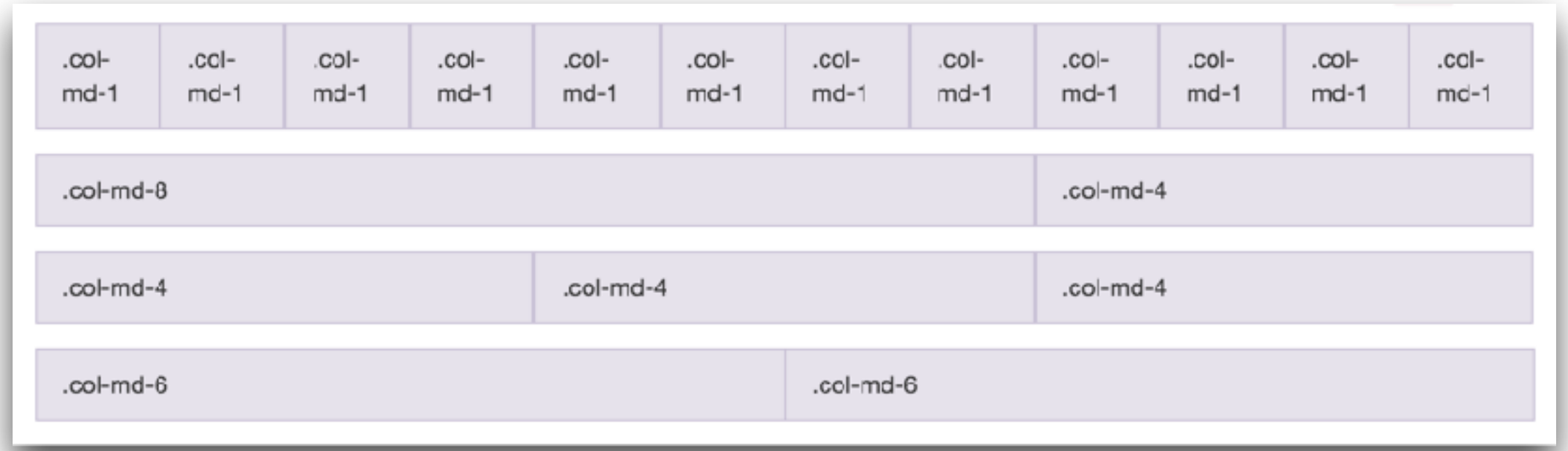
Grid Systems, huh?

- “Grid systems are used for creating page layouts through a series of rows and columns that house your content.”



Bootstrap's Grid

- "Bootstrap includes a responsive, mobile first fluid grid system that appropriately scales up to 12 columns as the device or viewport size increases."



Bootstrap's Grid Options

	Extra small devices Phones (<768px)	Small devices Tablets (≥768px)	Medium devices Desktops (≥992px)	Large devices Desktops (≥1200px)
Grid behavior	Horizontal at all times	Collapsed to start, horizontal above breakpoints		
Container width	None (auto)	750px	970px	1170px
Class prefix	`.col-xs-`	`.col-sm-`	`.col-md-`	`.col-lg-`
# of columns	12			
Column width	Auto	~62px	~81px	~97px
Gutter width	30px (15px on each side of a column)			
Nestable	Yes			
Offsets	Yes			
Column ordering	Yes			

Using Bootstrap

Using Bootstrap

- http://getbootstrap.com/getting-started/#download
- Approaches
  - Download locally or reference via CDN
  - Install with Bower (coming soon)
  - Install with NPM (coming soon)

```
<!-- Latest compiled and minified CSS -->
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css" integrity="sha384-
1q8mTJOASx8j1Au+a5WDVnPi2lkFfwwEAa8hDDdjZlpLegxhjVME1fgjWPGmkzs7" crossorigin="anonymous">

<!-- Optional theme -->
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap-
theme.min.css" integrity="sha384-fLW2N01lMqjakBkx3l/M9EahuwpSfeNvV63J5ezn3uZzapT0u7EYsXMjQV+0En5r"
crossorigin="anonymous">

<!-- Latest compiled and minified JavaScript -->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js"
integrity="sha384-0mSbJDEHialfmuBBQP6A4Qrprq5OVfW37PRR3j5ELqxss1yVqOtnepnHVP9aJ7xS"
crossorigin="anonymous"></script>
```

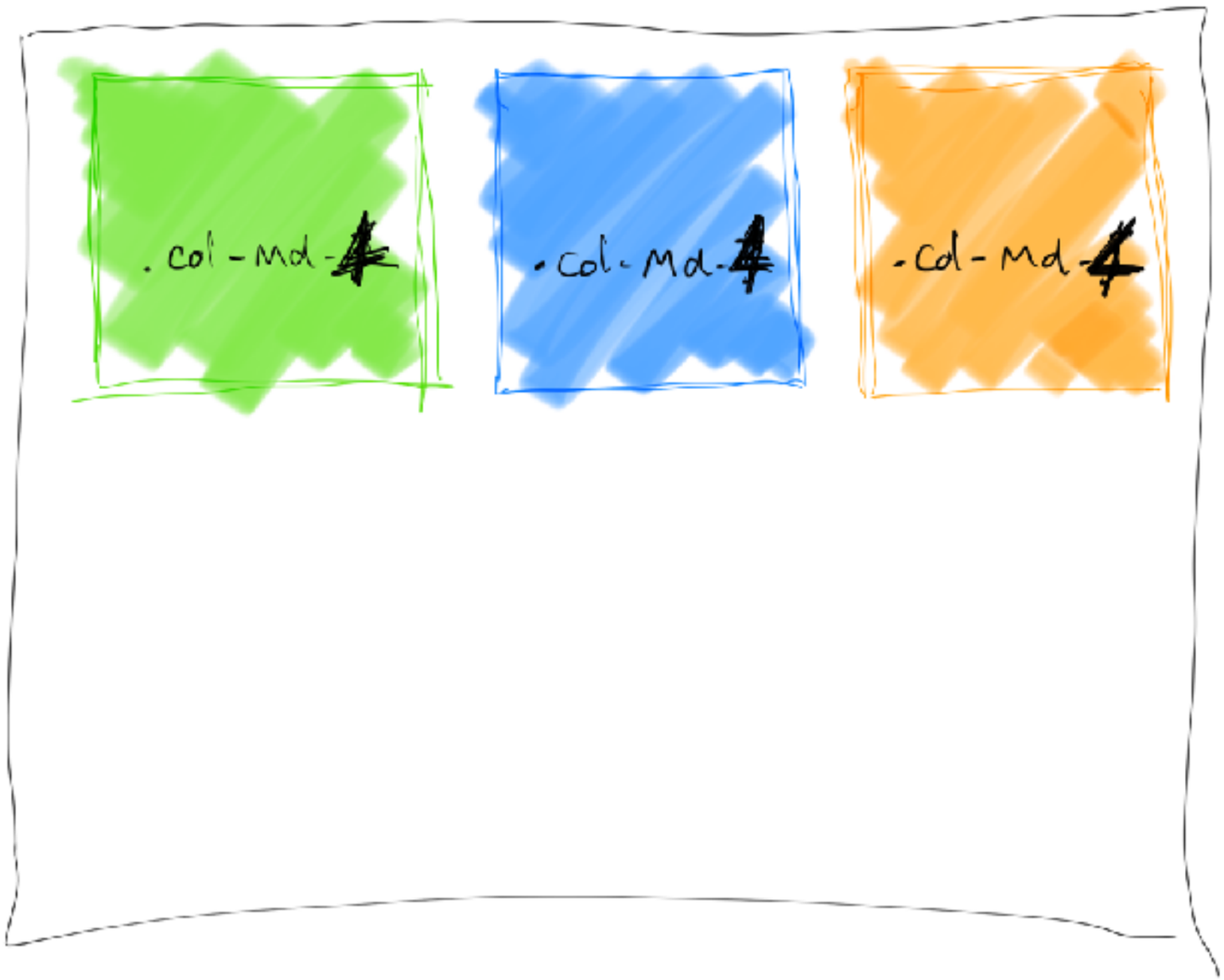
Exercise

Fun With Grids :)

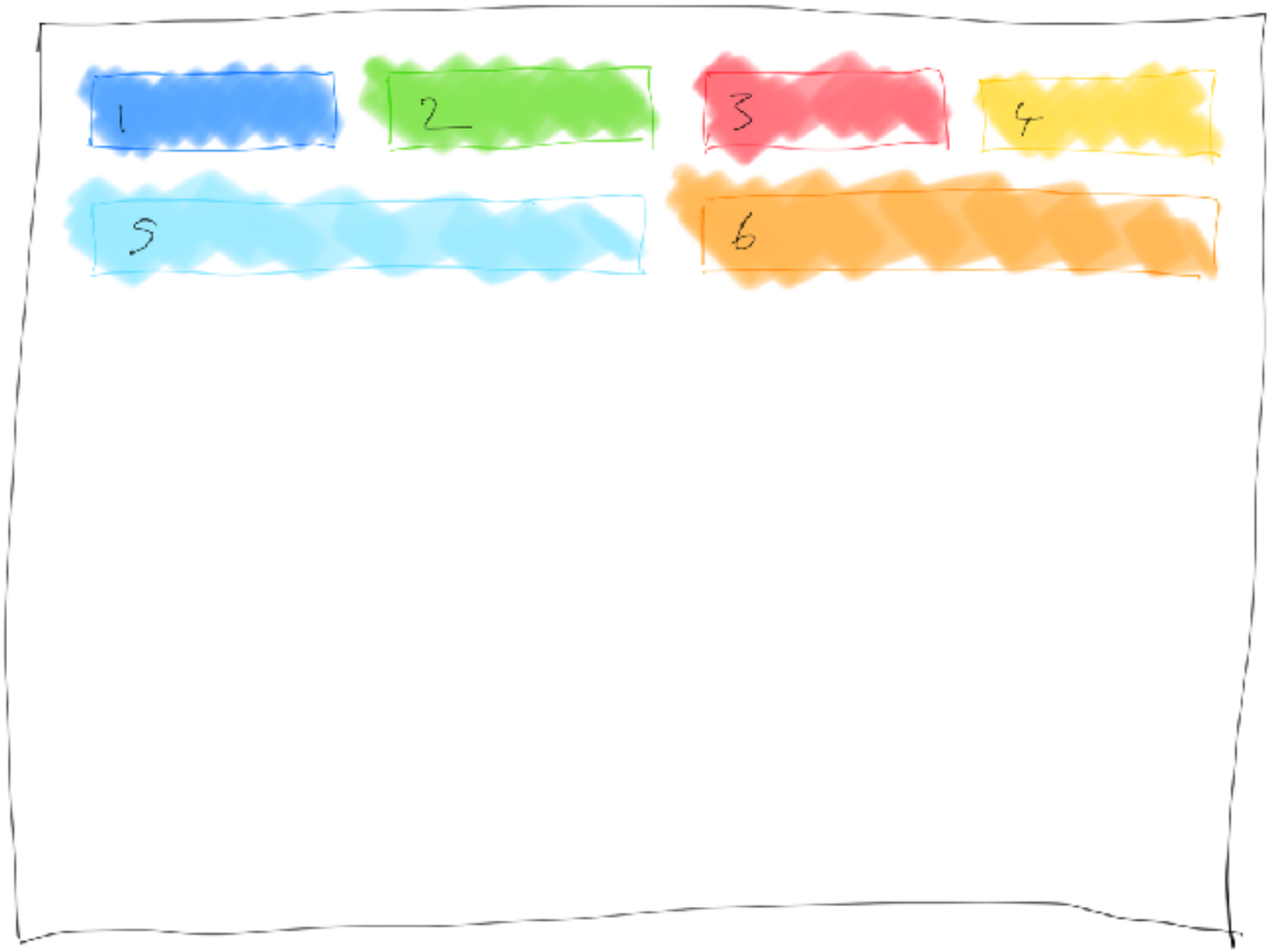
Bootstrap Grid System

- Create the following examples (note the difference between using .container and .container-fluid)
- Use col-md-* for all columns (as we'll be exploring responsive separately)

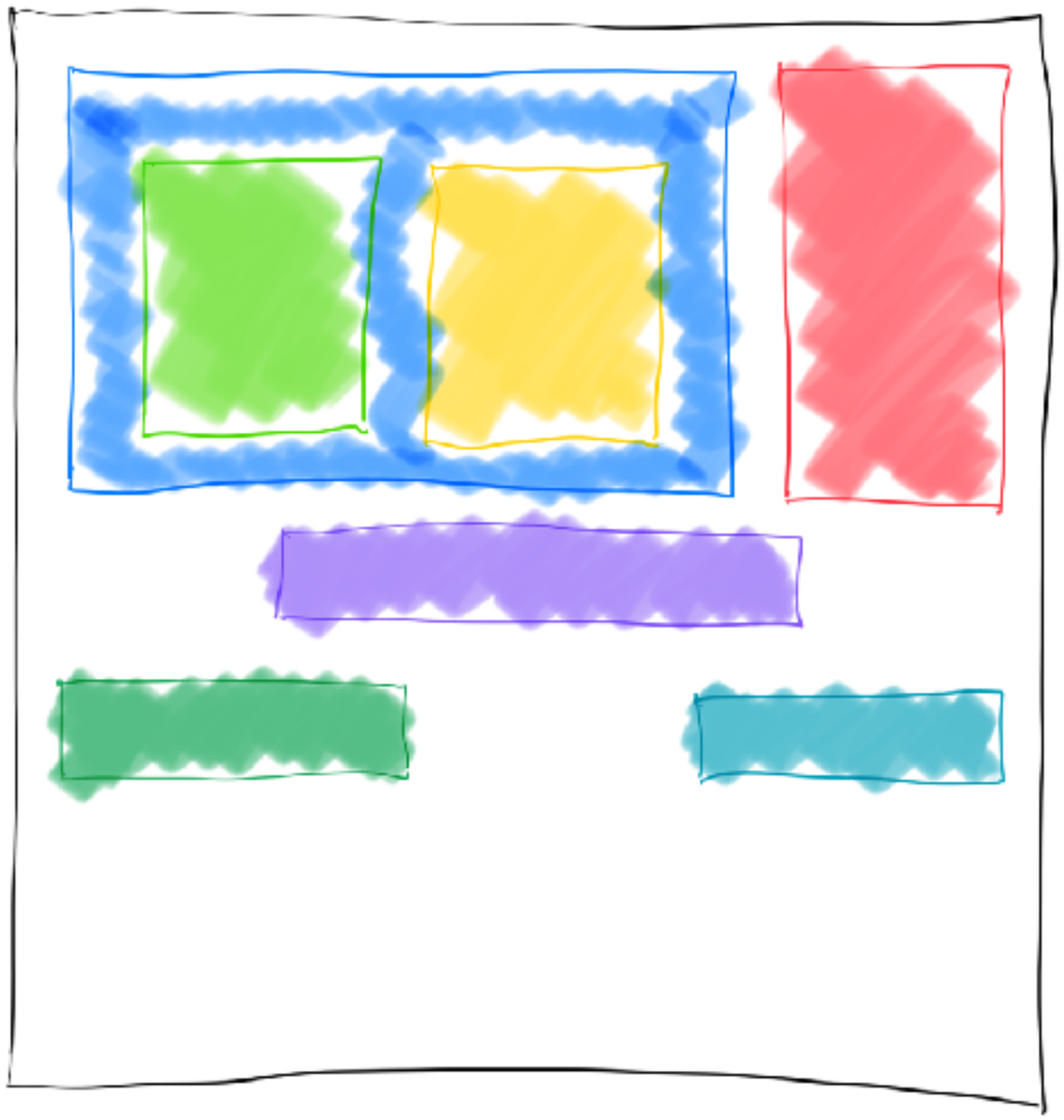
Exercise #1



Exercise #2



Exercise #3

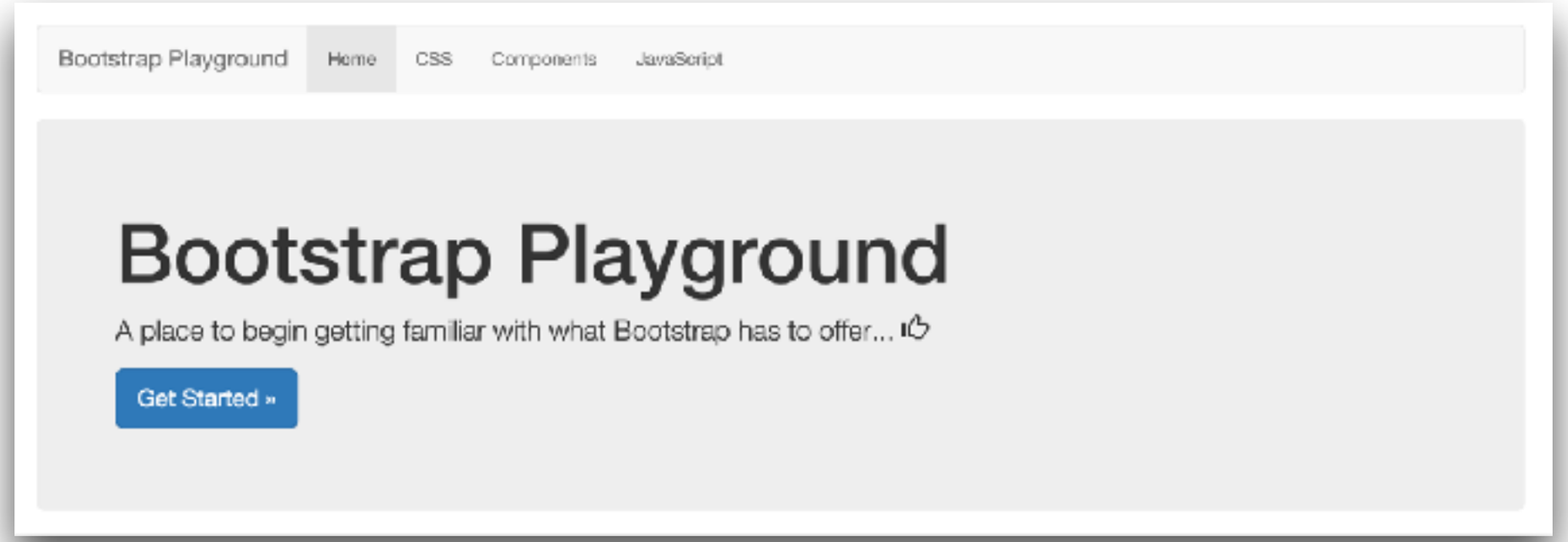


Exercise

Bootstrap Playground

Download the following…

- https://github.com/kevinbluer/epam-bootstrap
- Remember the importance of good directory organization



Bootstrap Playground

- Explore the following:
  - CSS
  - Components
  - JavaScript

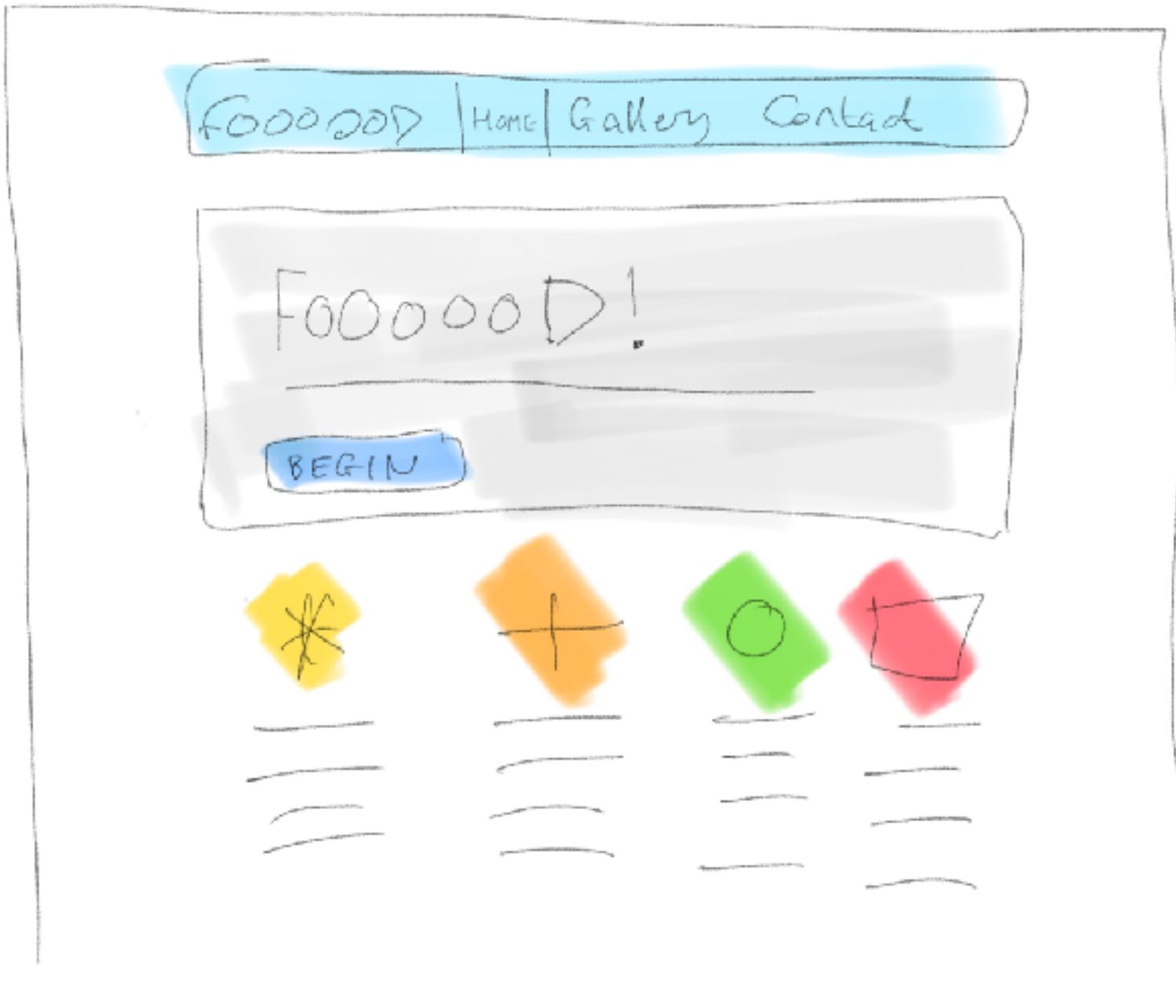
Exercise

Fooooood 2.0

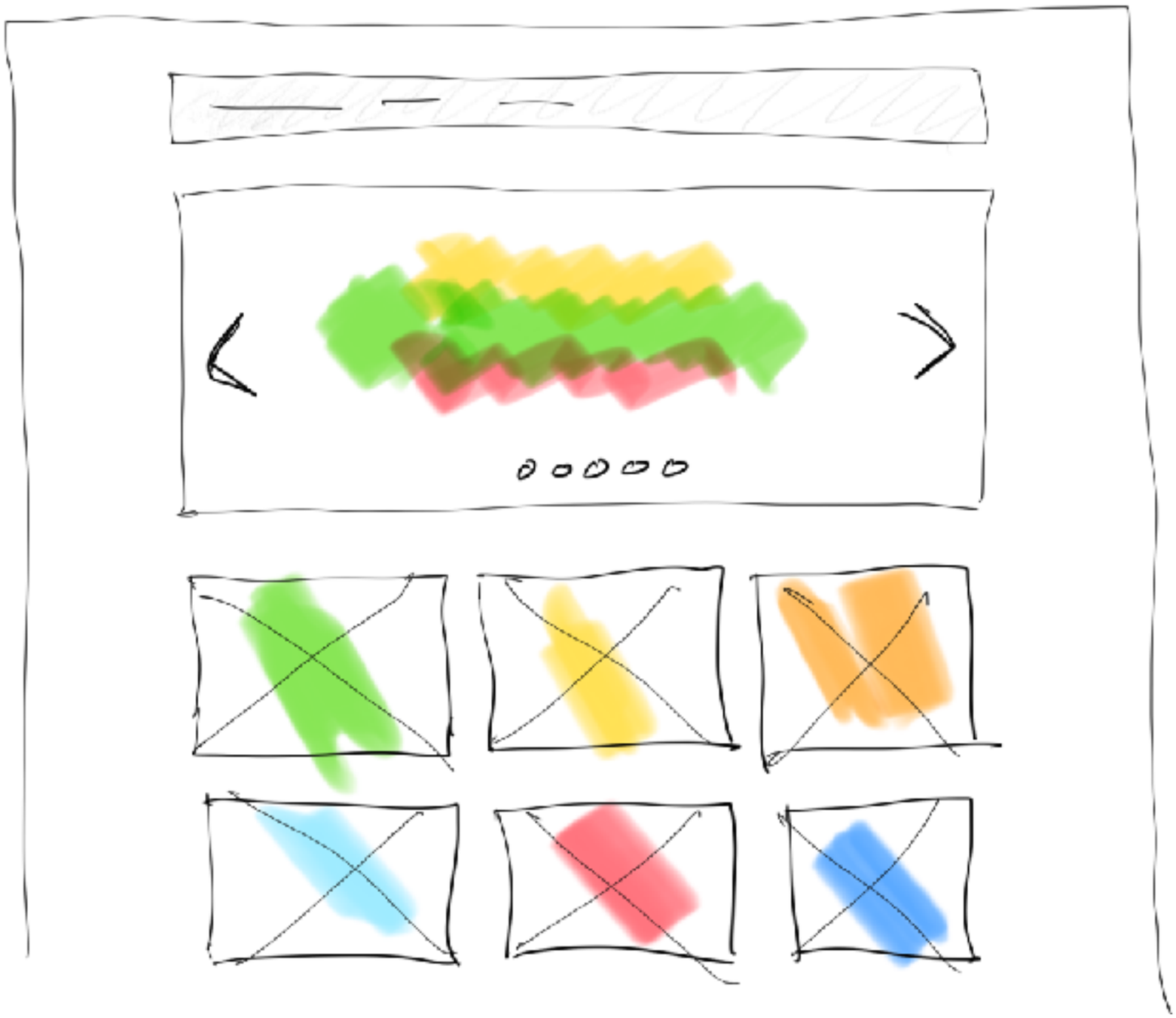
Fooooood 2.0

- Let's put some of this into practice!
- 4x pages…
  - Home (Jumbotron and 3 Columns with Glyphs)
  - Gallery (Images Carousel & Grid of Responsive Images)
  - Recipe Page (Table, Checklist for ingredients)
  - Contact Us / Submit Recipe (Form)
- Also…
  - Use a Navbar with embedded Glphicons :)
  - Feel free to explore other controls too :))
  - http://getbootstrap.com/getting-started/#examples :)))

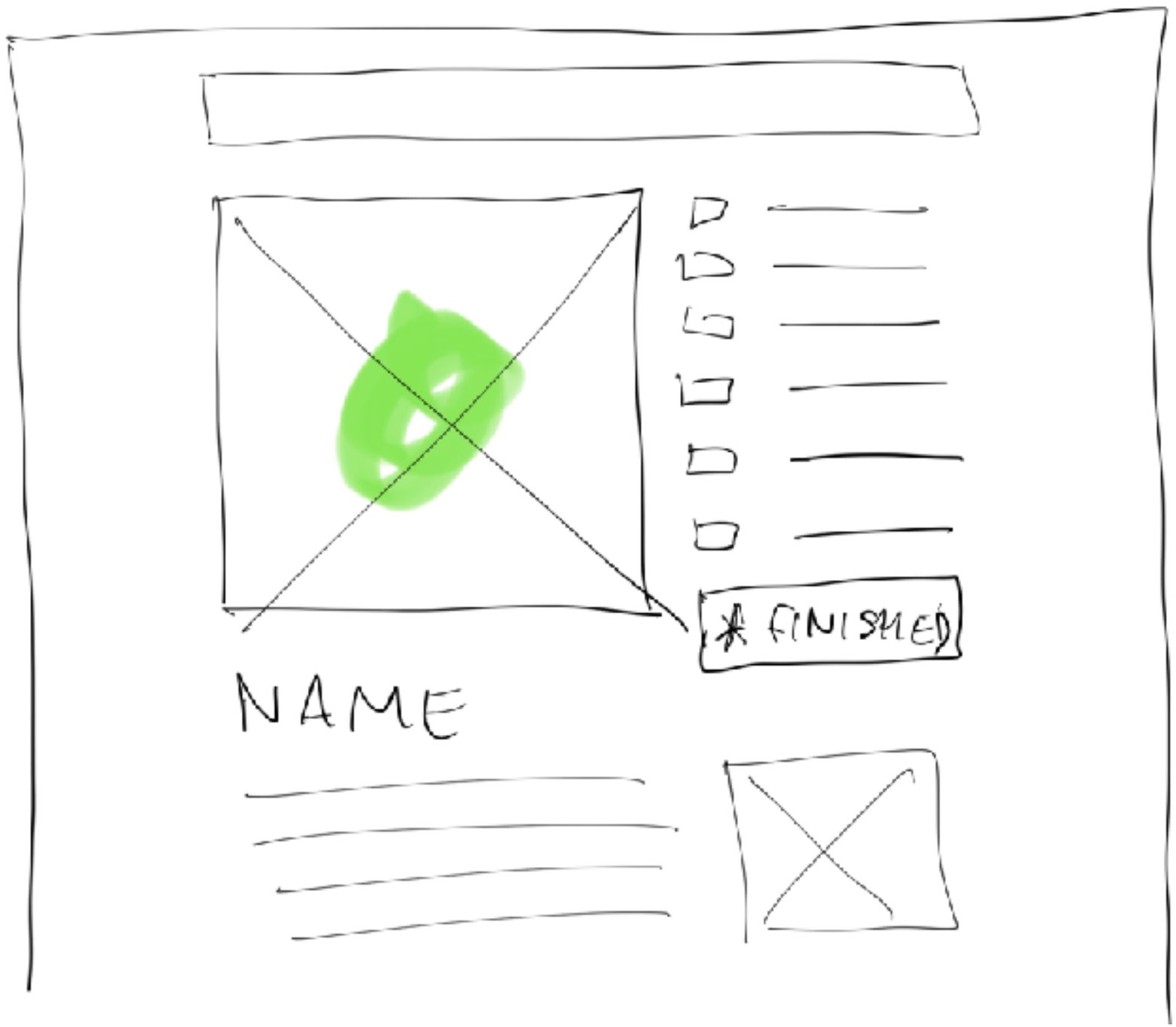
Homepage



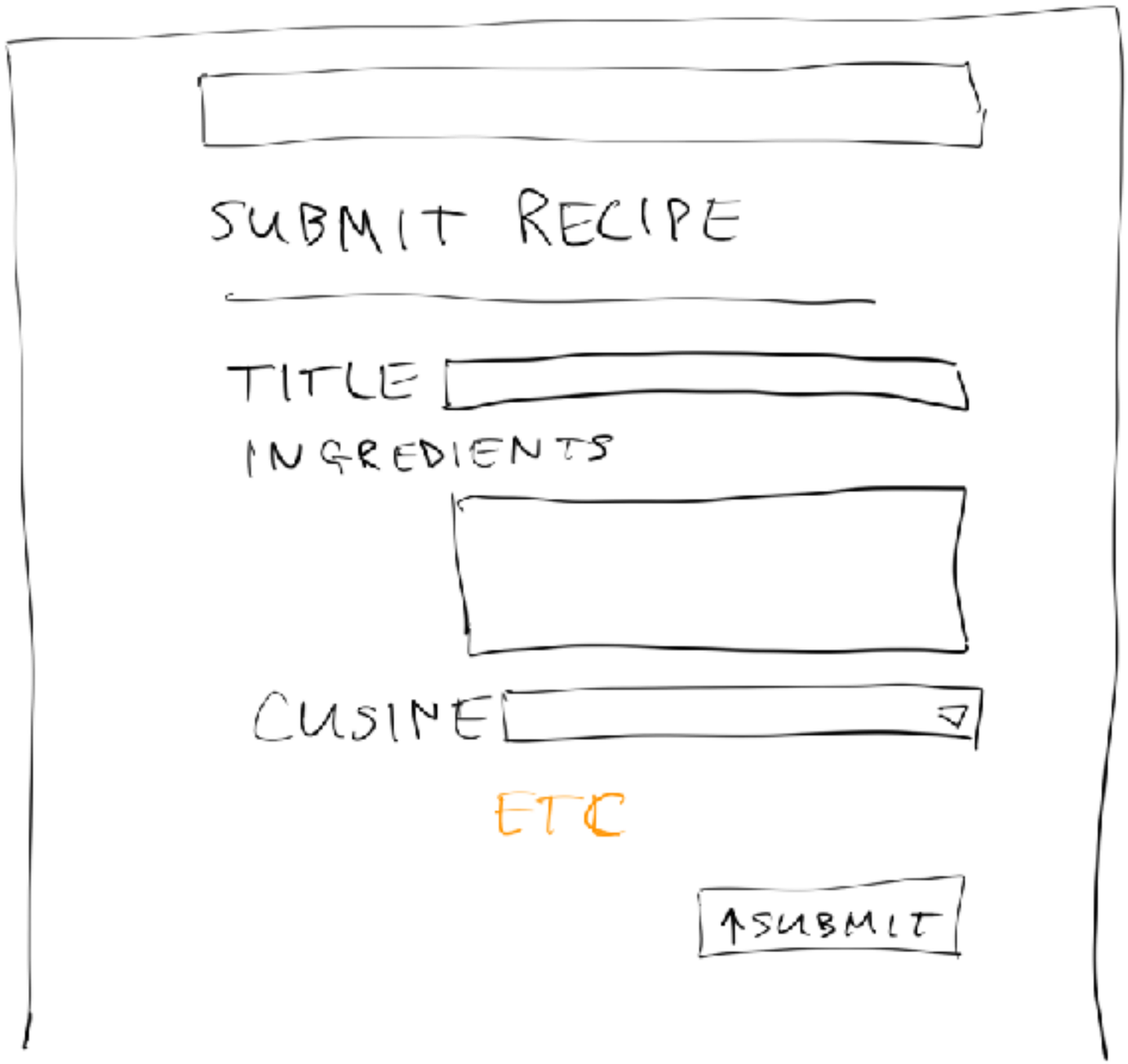
Gallery



Recipe Page



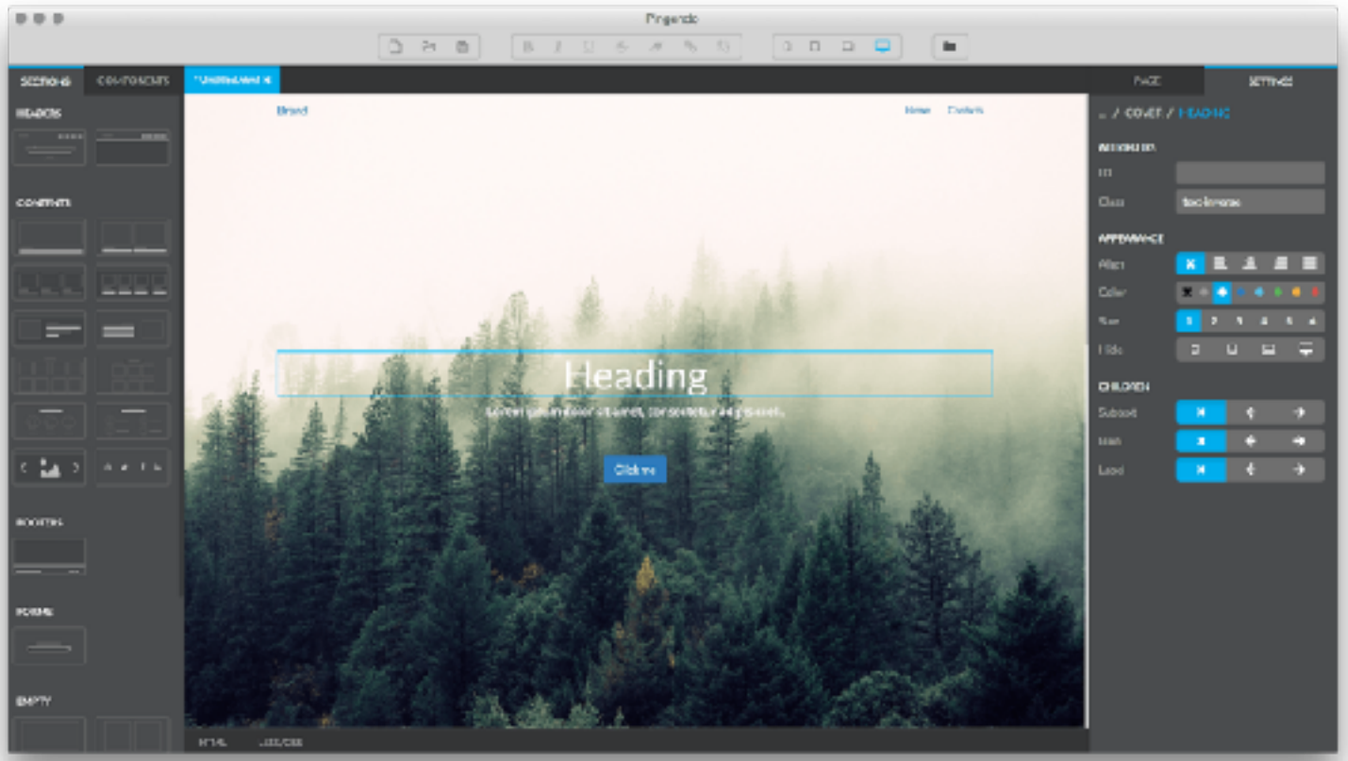
Contact Us



Bootstrap Prototyping Tools

Bootstrap Prototyping Tools

- Pingendo (http://pingendo.com)
- Bootstrap Studio (https://bootstrapstudio.io)



Bootstrap 4.0 Alpha

Bootstrap 4.0 Alpha

- http://blog.getbootstrap.com/2015/08/19/bootstrap-4-alpha/
- What's New
  - Moved from Less to Sass
  - Improved grid system
  - Opt-in flexbox support is here
  - Dropped IE8 support and moved to rem and em
  - Rewrote all our JavaScript plugins in ES6

Checkout The Themes

- http://themes.getbootstrap.com

Summary

Summary

- Bootstrap is a mobile-first framework that contains a huge range of classes and components
- It can dramatically reduce development time
- Make sure it's appropriate for any project you are considering using it with (and that there are many other frameworks out there too)
- Bootstrap 4.0 is coming soon!

Further Reading

Further Reading

- Documentation: http://getbootstrap.com
- Code: https://github.com/twbs/bootstrap
- Themes: http://themes.getbootstrap.com