# CREATING RESPONSIVE WEB PAGES WITH BOOTSTRAP 3



Dana Ouellette Information Services Librarian Concordia University College of Alberta

## WHAT I WILL COVER

- Responsive Design
- Why Bootstrap?
  - My circuitous discovery of Bootstrap
- Features of Bootstrap
- Getting started with Bootstrap
- Epic Fail!!/lessons learned

## RESPONSIVE DESIGN

- Design philosophy
- Best possible user interface regardless of screen size
  - One site for every screen
- Not really achievable until 2012
  - W3C recommendation of CSS3 media queries
  - HTML5
- Oops I missed that boat! Why did I launch a site in 2013?

# WHAT IS BOOTSTRAP?

- Front End Framework
- Basically just CSS and JS
- Created by Twitter for Consistency in internal projects
- As bootstrap 2 has supported responsive design grids

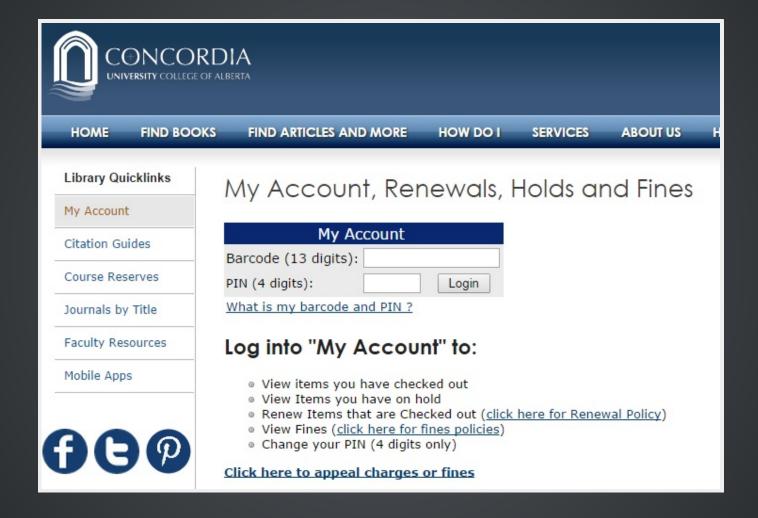
## WHY BOOTSTRAP?

- Mobile-first responsive design
- Easy to use
  - Even for the non-developer
  - Perfect for small colleges without much IT support
- Consistency
- Complex responsive features and Javascript features with only basic knowledge of html and css

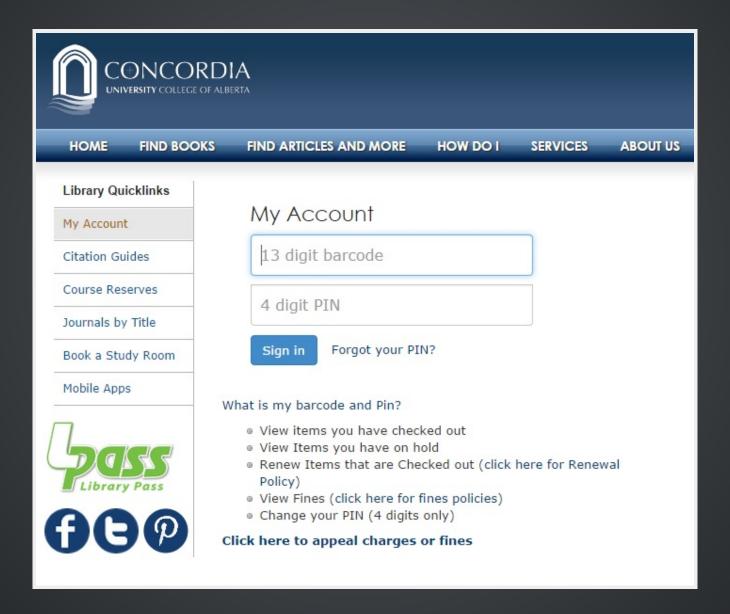
## MY CIRCUITOUS DISCOVERY OF BOOTSTRAP

- Accessyyt 2013
- CRDB
- Needed consistancy
- Modern login forms

# OLD FORM



# **NEW FORM**



#### **FEATURES**

Let's check out the features visually on the bootstrap website

# **FEATURES**

- Excellent documentation
- Easy to follow examples
- Easy copy and paste template

# USING BOOTSTRAP

- Download bootstrap
- Set up site in the same directory

# HEADER

#### The essentials

```
<!DOCTYPE html>
<html lang="en">
   <head>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        </head>
</html>
```

# LINK TO CSS AND JS FILES

#### between head tags

<link href="css/bootstrap.min.css" rel="stylesheet">

#### In the footer

<script src="js/bootstrap.min.js"></script>

# LETS GIVE IT A QUICK TRY

http://getbootstrap.com

## **GRID SYSTEM**

- 12 column grid system
- Use divs with a class formated like .col-\*size-\*width in colums
- Sizes are: xs, sm, md, lg
- Number in each row must add up to 12

# IT'S HARD TO EXPLAIN LETS TAKE A LOOK

# FAIL/LESSONS LEARNED

- If it's so easy, why isn't our library site responsive
- Mobile first responsive requires complete redesign
- You can't just use bootstrap as new skin over an old site
  - learned that one the hard way
  - Look at my fail

# QUESTIONS?

dana.ouellette@concordia.ab.ca