

# Analyze Design System

Follow these pattern guidelines to effectively create new designs for analytics dashboards.

Templates

Components

Basics

Principles

## Templates

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**Tab Bar**

**Breadcrumbs**

**Headers**

**Footer**

**Swimlanes**

**Tables**

**Graphs**

Pie Graph

Scatter Plot Graph

Bubble Graph

Area Graph

Simple Bar Graph

Combo Bar Graph

Waterfall Bar Graph

**Complex Filtering**

Full Page

Contained

**Accordions**

Static Accordion

Dynamic Accordion

## Components

**Avatars**

**Chips**

**Tooltips**

**Pickers**

**Badges**

**Metrics**

**Cards**

**Dropdowns**

## Basics

**Buttons**

**Checkboxes**

**Radio Buttons**

**Loading Indicators**

**Search**

**Icons**

## Principles

**Color**

**Type**

**Background**

**Containers**

## Graphs

Graphs are a very powerful template included in the library. At the core of it's name, the Analyze products aim to effectively pull insights for users by effective data visualization. There are 7 different main types of graphs, that have optional features and are optimized for all screen sizes.

Pie Graph

Bar Graph

Bubble Graph

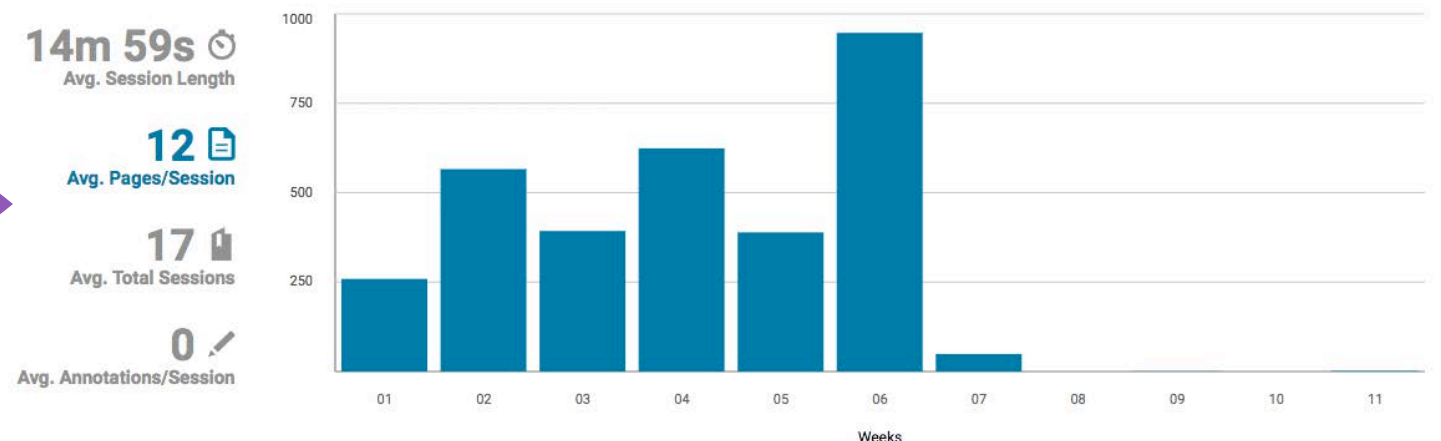
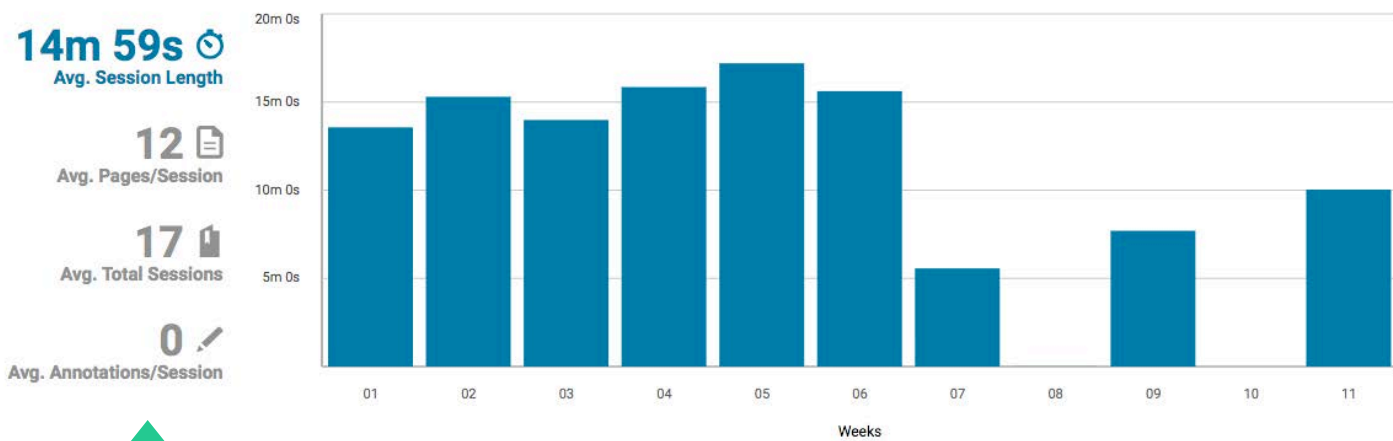
Scatter Graph

Combo Bar Graph

Waterfall Graph

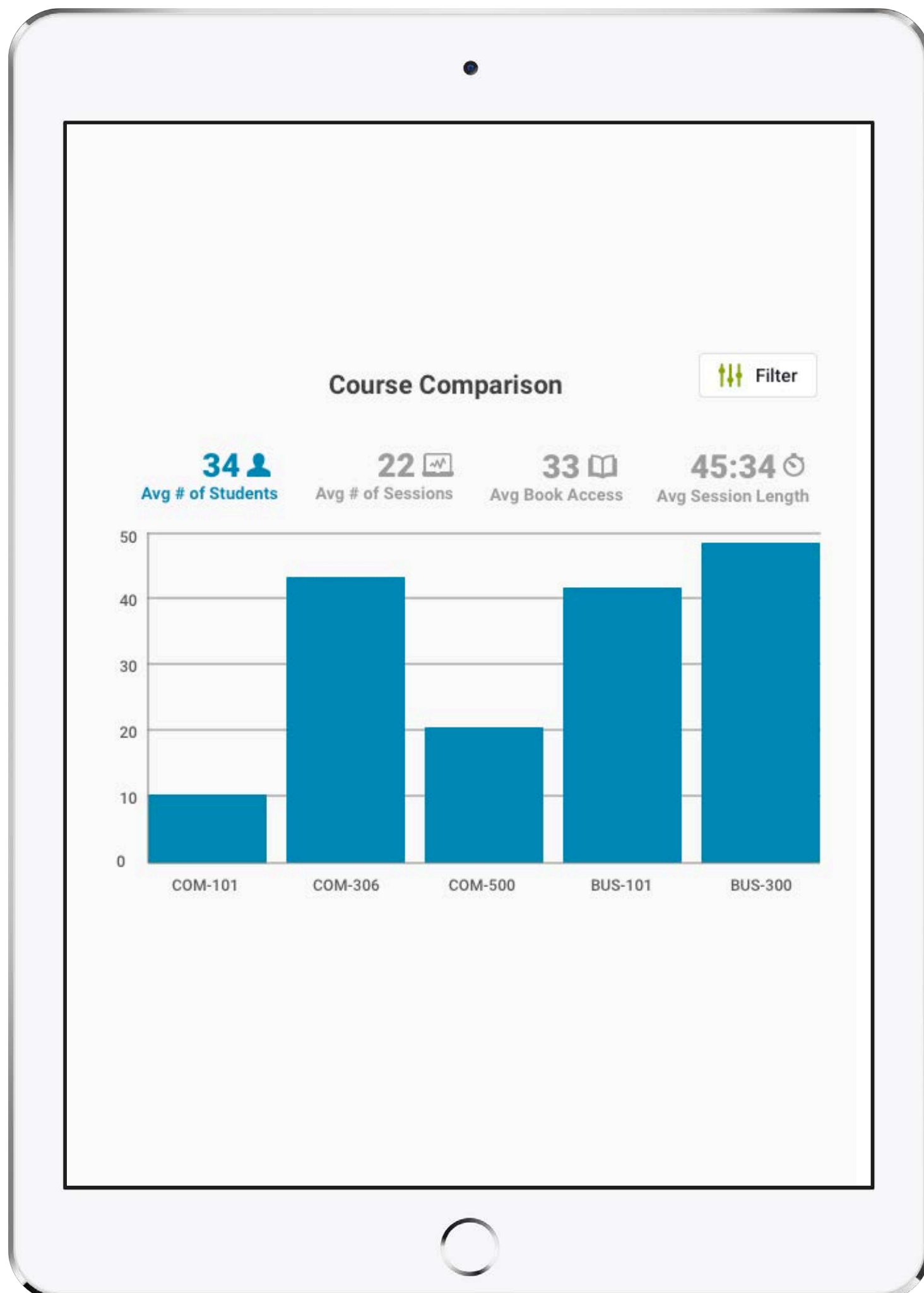
## Bar Graph

The bar graph displays categorical information by bars. A bar graph can be utilized to show how something changes over time or to compare separate items. A good usage for a bar graph is comparing courses averages. When the metrics are clicked, the bars dynamically change, reflecting the new category.

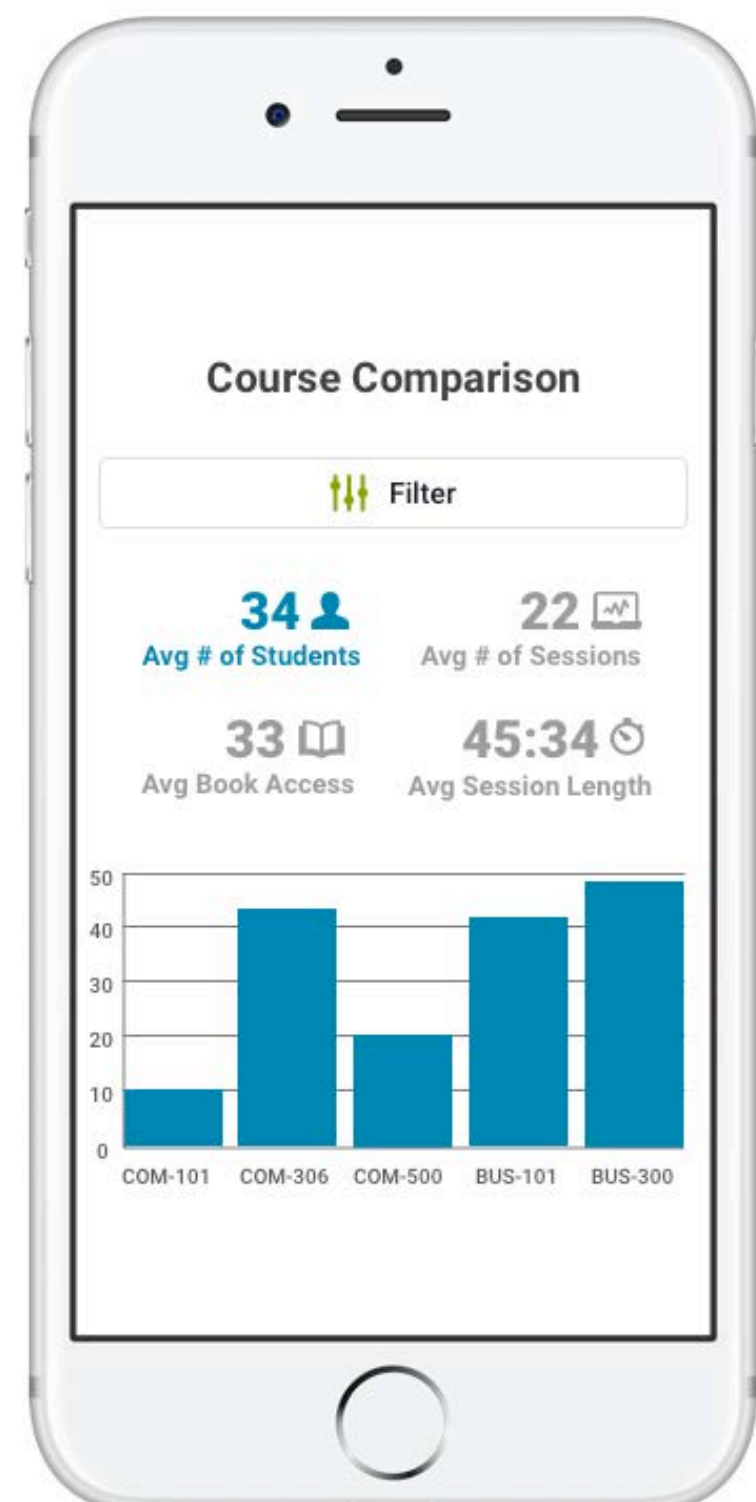


Component / Metrics

Spec Files



Spec Files

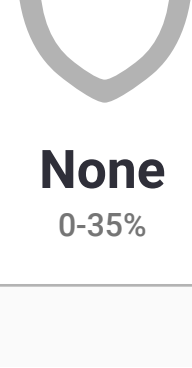


### Complex Filtering System

The complex filtering system is combined simple filters, one complex filter, or a mixture of complex and simple filters. This system is scalable to either type of filter, and is displayed by the filtering logic above in a filter bar (full page) or within a table (table). If the filtering system is being used in a table, there is a different type of conditionals associated with the filtering system.

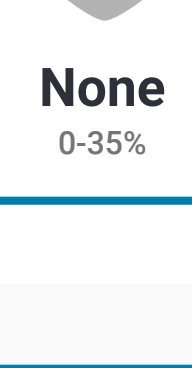
- Full Page
- Contained
- Mobile

#### Filter Selection Cards - Laptop




**None**  
0-35%

**Default State**  
(non-selected)



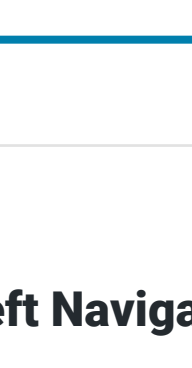
**None**  
0-35%

**Hover State**  
Hovering over an item changes the border to: 3px #007FAD.



**None**  
0-35%


**Selected State**  
Once item has been selected, Checkmark appears in top right corner along with retaining the border of hover state.



**None**  
0-35%


**Deselect State**  
On hover, "X" appears where checkmark was conveying that on selection item will be deselected. On Selection, item returns to default state

#### Filter Selection Cards - Mobile



**None**  
0-35%

**Default State**  
(non-selected)



**None**  
0-35%

**Selected State**  
Once item has been selected, Checkmark appears in the center to the right. Also border changes to: 3px #007FAD.

Selection cards in the complex filtering system are displayed as cards. They can be either single select (radio-select), or multi-select (checkboxes).

#### Filter Left Navigation - Laptop

Parent Company

**Default State**

Parent Company

**Hover State**

Parent Company

**Active State**

Parent Company 1

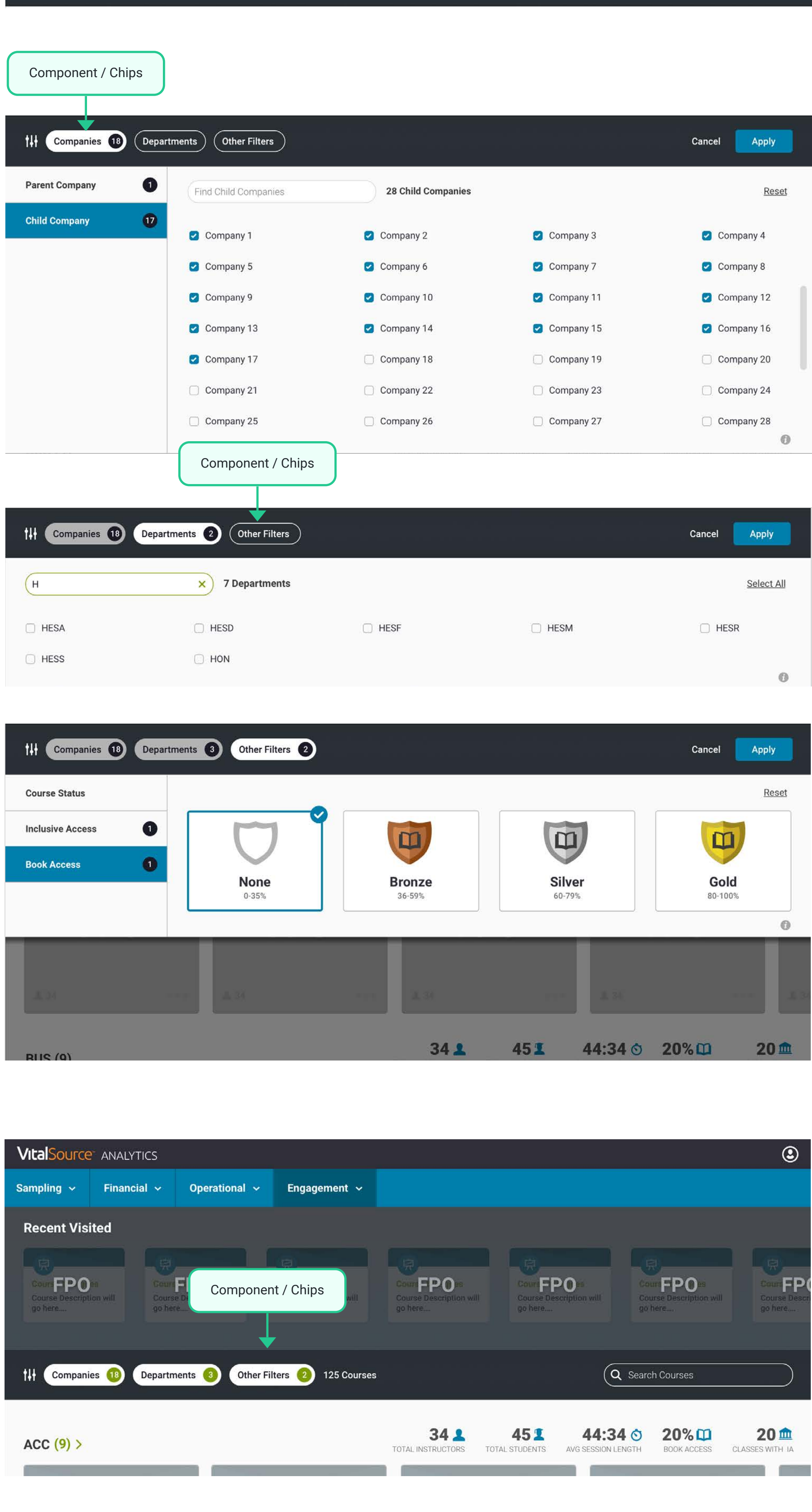
**Active Selected State**

Parent Company 1

**Non-Active Selected State**

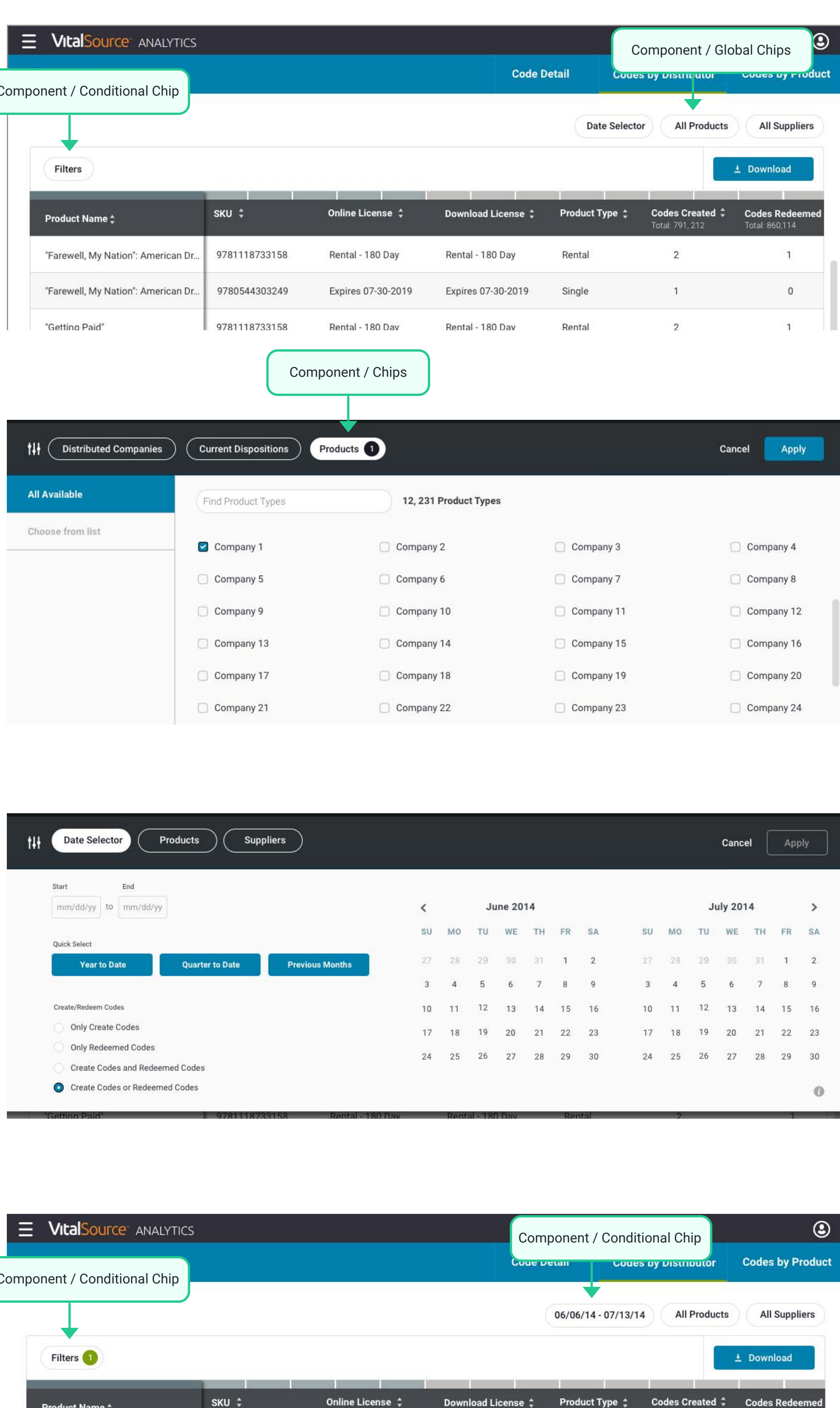
The left navigation appears in the complex filtering system anytime there are associated filters that need to be grouped together or a more filters chip. It follows the same logic that

#### Full Page - Displays on Laptop (≥1200px) and Tablet (768px)



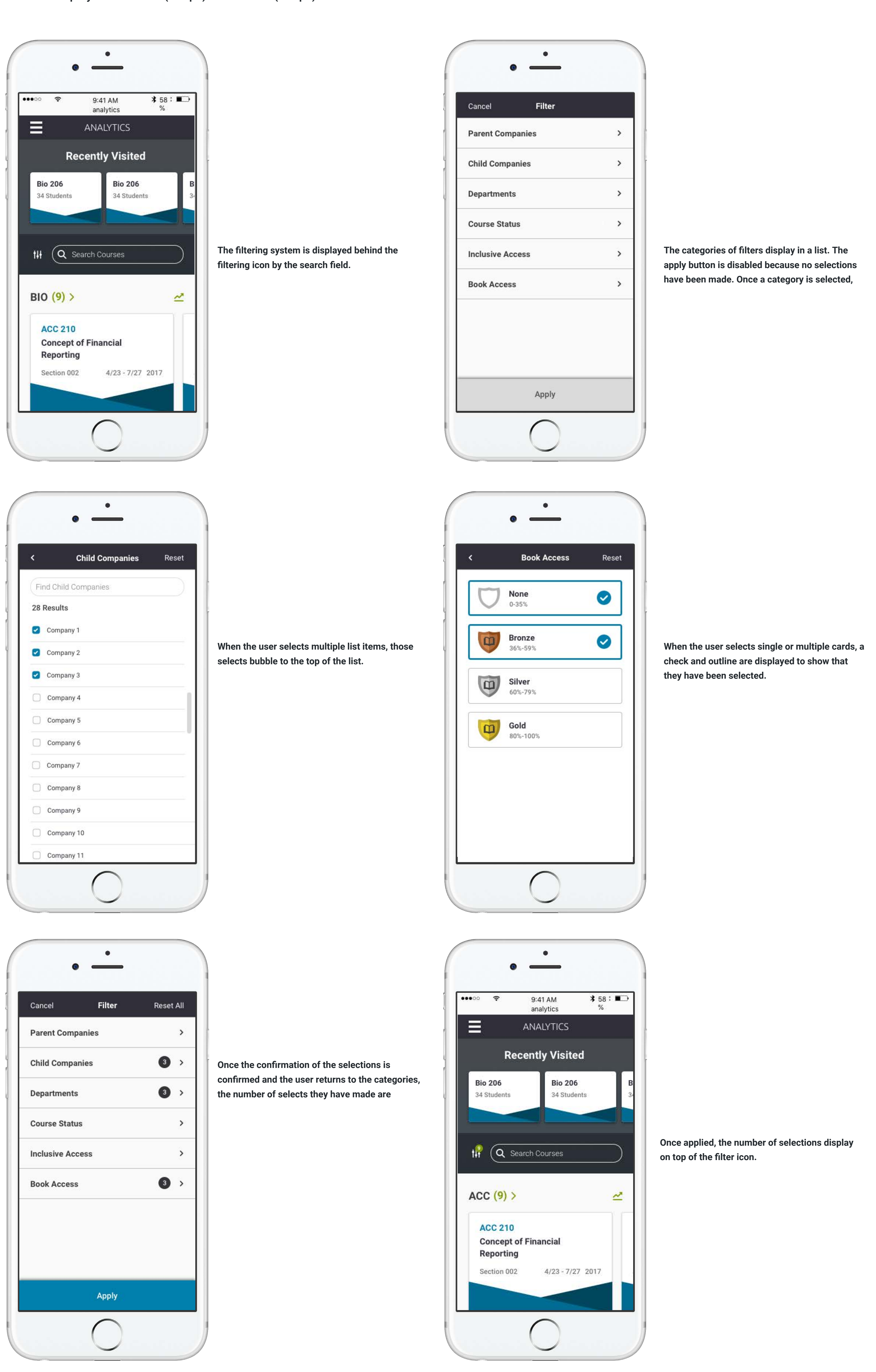
- During the filtering selections:**
- Categorizing buttons will display in the filter bar up to 4 buttons. If there are more categories of filters, they will display in a "more filters" button at the end. The "more filters" bucket can also be used to group filters that categorically make sense to be with each other.
  - More Filters Example: Companies Filter, "Other Filters" on Courses
  - Upon the instance of a complex filter, there will be only one filter in the system
  - Complex Filter Example: Parent/Child Company Selector, Current Dispositions, Distributed Companies)
  - The individual filters in a "more filters" bucket will display the number of filters beside the title of the filter. In the categorial button on the Filter Bar will show the total of these filters only.
  - There is only one way to apply the filters in the filter bar
  - There will be a visual representation of the selected filter button
  - The number of filters selected in the drop-down will display the button on the filter bar. These numbers will only display once the filter drop-down is applied
  - In the instance of a large list to be filtered (example departments), the user can search for their department, or scroll through the entire list below
  - Large lists will have a max-height to limit the number of items to the user. The user will need to scroll down, triggering a lazy load for more items if necessary
  - By default, selections will be unchecked, inferring that you are currently not filtering. Using deductive reasoning, once the user makes a selection, that will infer that is the current filter being applied.
  - If the user searches or selects a field to filter by, then 'select all' accompanied with the number of selections will display in
- After the filter is applied:**
- The filters can be cleared individually by the 'X' that shows on hover on each category button
  - The search fields will be stylized differently than the global search field to suggest a visual hierarchy
  - There is a line of text at the top for a more in-depth description of what the filter is performing
  - The global search will be hidden by filter drop-down and replaced with action items associated with filters (Apply / Reset / Reset All)

#### Contained - Displays on Laptop (≥1200px) and Tablet (768px)



- During the filtering selections:**
- The complex filtering system can be triggered by global or local filters. The table displayed has local filters (all behind one filter button) and global filters, above the table.
  - In the instance of the operational tables, the global filters retain when traversing through different reports. The local filters will reset once the user moves to another report.
- Local filters in a table**
- The complex filtering system can be triggered by global or local filters. The table displayed has local filters (all behind one filter button) and global filters, above the table.
  - In the instance of the operational tables, the global filters retain when traversing through different reports. The local filters will reset once the user moves to another report.
- Global filters in a table**
- The complex filtering system can be triggered by global or local filters. The table displayed has local filters (all behind one filter button) and global filters, above the table.
  - In the instance of the operational tables, the global filters retain when traversing through different reports. The local filters will reset once the user moves to another report.
- After the filter is applied:**
- The local filters display filter selections by the filtering chips logic
  - The global filters display filter selections by the filtering chips logic. The only conditional is the date selector chip, that would display the date range instead of the number of selections made.

#### Mobile - Displays on Phablet (575px) and Mobile (320px)



**The filtering system is displayed behind the filtering icon by the field.**

**The categories of filters display in a list. The apply button is disabled because no selections have been made. Once a category is selected,**

**When the user selects multiple list items, those selects bubble to the top of the list.**

**When the user selects single or multiple cards, a check and outline are displayed to show that they have been selected.**

**Once the confirmation of the selections is confirmed and the user returns to the categories, the number of selects they have made are**

**Once applied, the number of selections display on top of the filter icon.**

## Swimlanes

### General

- If there are zero cards in a swimlane, that entire lane will not exist.
- Cards should be displayed so there is a card at the beginning/end peaking through
- The lane can be scrolled with a trackpad, mouse wheel, or swipe on touch screens
- On non-touch devices, hovering over a card or anywhere in the swimlane will show arrows and an alpha gradient at the start/end of the lane
- When clicking the arrow to advance a lane, the number of cards to slide in is one less than that displayed. So if cards A, B, C, and a peak of card D are shown, clicking the right arrow would now show cards D, E, F, and a peak of G. If there is no peak and only cards A, B, and C are showing, advancing the lane would show cards C, D, E.
- There could be a max number of cards in a lane, set on a per usage basis

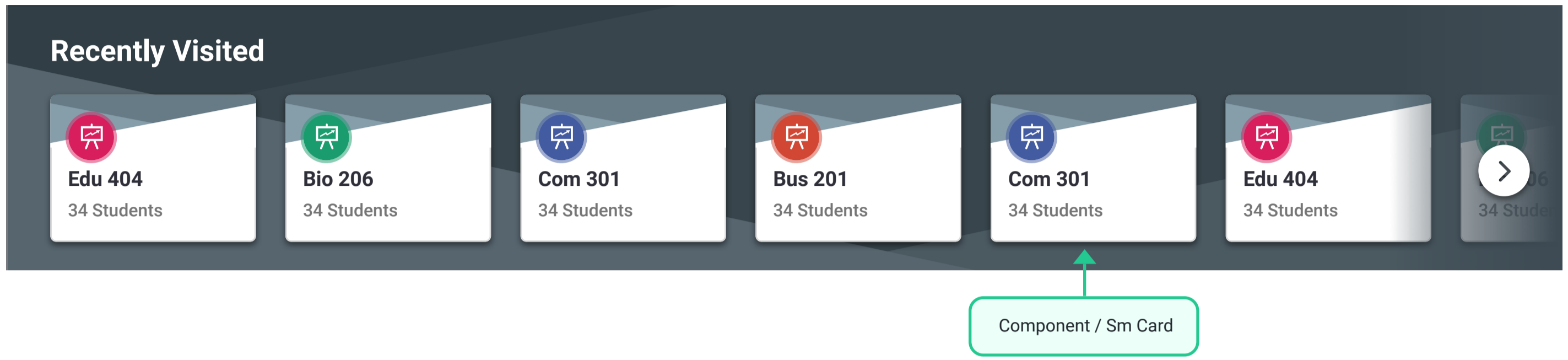
### Responsive notes

- The number of cards shown by default will increase/decrease depending on screen size



### Small

Spec Files



### Conditionals

- 0 cards/first visit - Collapse until the user interacts with a course card
- 1 card =< width of the browser - Swimlane will display once cards begin to display, however, no swimlane functionalities will be present, displaying coasters



- Cards > width of the browser - Swimlane is displayed with cards, functionality is active
- One click to populate more cards

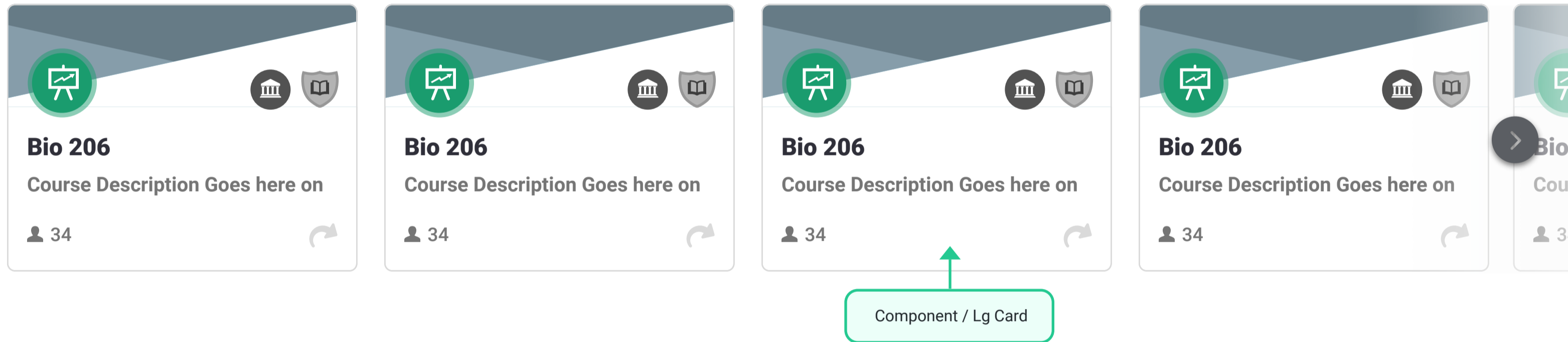
### Mandatory items

- Component // Sm Card

### Large

BIO (9) >

34 TOTAL INSTRUCTORS | 45 TOTAL STUDENTS | 44:34 AVG SESSION LENGTH | 20% BOOK ACCESS | 20 CLASSES WITH IA



### Conditionals

- If there is only 1 swimlane, cards will display on a grid layout
- 0 cards/first visit - Collapse until the user interacts with a course card
- 1 card =< width of the browser - Swimlane will display once cards begin to display, the number of cards becomes a link and has an arrow next to it. Clicking this would open a new page with the lane expanded into a full grid view
- however, no swimlane functionalities will be present (NO background coasters like Recently Visited)
- Cards > width of the browser - Swimlane is displayed with cards, functionality is active
- The number of cards in the swimlane are shown in parenthesis next to the title

### Mandatory items

- Component // Lg Card

### Optional items

- Component // Metrics

## Mobile Specifications

### Small Conditionals

- Initial Visit: Collapse Recently visited until user interacts with a course card
- Max number of Recently Visited courses: 14
- Swiping left will allow user to see more courses in swim lane
- Selecting that course will take the user to the intended course detail page

### Large Conditionals

- Swim Lane Page Formatting (Active, Inactive) is the same as above but only showing one card and a portion of another indicating a swimlane
- Grid Formatting (Active, Inactive, Search Results) is the same as above but also only showing one card over another in mobile format. Lazy load
- Metrics formatting for these areas respectively have been updated to a mobile formatting showing an analytics/chart arrow icon to the right of the title
- Selecting this icon allows metrics screen overlay to slide up over the page
- Shows large metric in middle of page with description below metric
  - Swiping metric starts animation to next metric similar to carousel functionality.
  - Animated metric grows from the side of the screen (height: 136px) to center of screen (height: 154px) and opacity changes from 70% to 100%.
- navigation with (fixed placement) numbers at bottom center of overlay
- X (fixed placement) at the top right to exit overlay

Recently Visited Swimlane

Department Swimlane



## Avatars

Avatars are associated with detail pages of each category. They are located in various places of the Institutional Dashboard, and are associated with the categories at different levels.

Large

Medium

Small

## Categories



Student



Instructor



Course



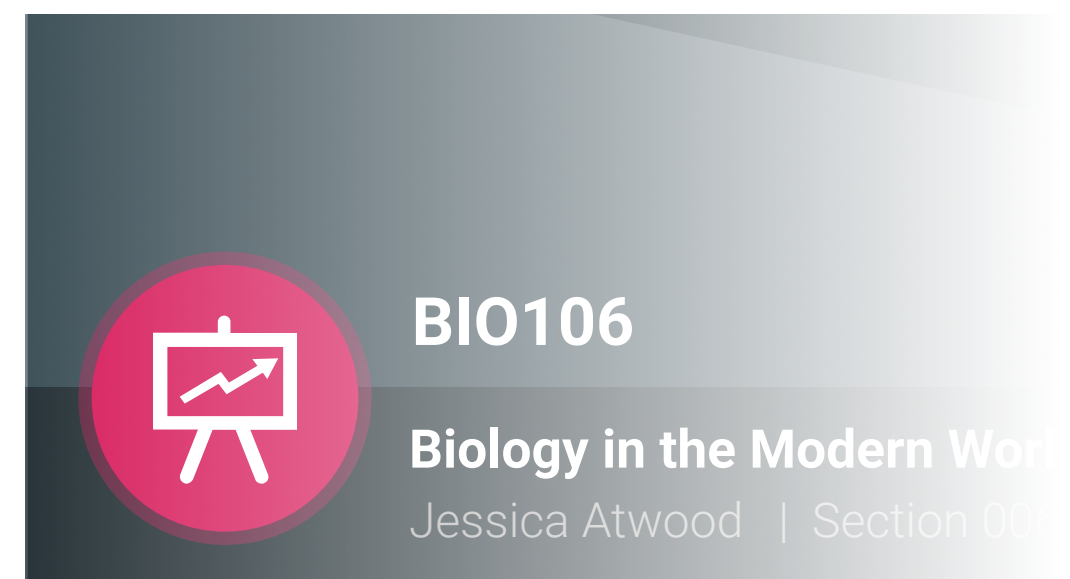
Assignment

## Large Avatar

Large avatars can be found on detail pages. For more information about the background colors, visit the basics // color page of the UI kit.



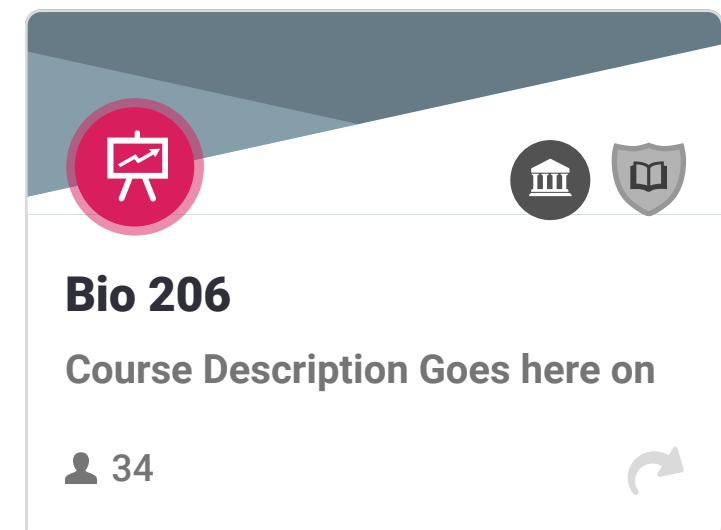
## Usage Examples



Course Detail Page

## Medium Avatar

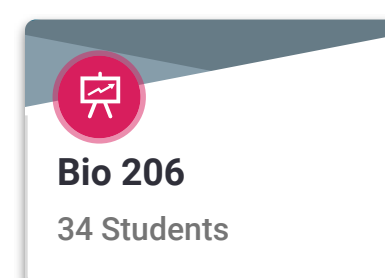
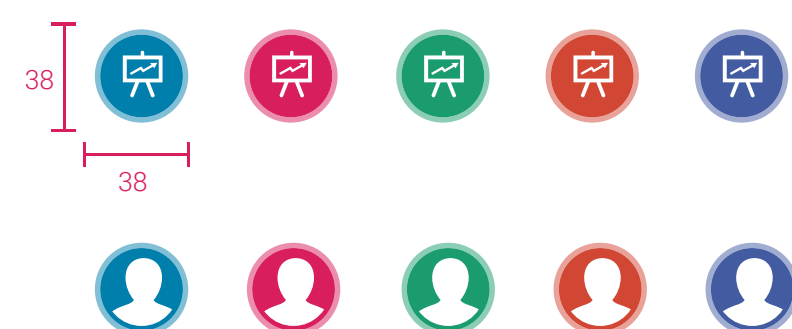
Medium avatars can be found on large course cards and full screen tool-tips on mobile. For more information about the background colors, visit the basics // color page of the UI kit.



Large Course Card

## Small Avatar

Small avatars can be found on small course cards and static/dynamic accordions. For more information about the background colors, visit the basics // color page of the UI kit.



Small Course Card

### Chips

Chips are utilized to simply display complex workflows through out Analyze. The most common workflow is the complex and simple filtering systems.

- Simple
- Complex

### Complex

The complex filtering chips follow a logic that enables the user to know how many selections they have made at any point of the interaction. These chips have a default state when there are no selections, a selection state while the selections are pending, and a confirmation state after the filter preferences have been set.

**Dark** Prototype

#### Default State

- Companies Non-Active Non-Selected
- Companies Non-Active Non-Selected:Hover

#### Selection State

- Companies Active Non-Selected
- Companies 18 Active Selection made
- Companies 18 Non-Active Selection made
- Companies 18 Non-Active Selection made:Hover

#### Confirmation State

- Companies 18 Active Selection Confirmed
- Companies X Active Selection Deselect:Hover

**Light**

#### Default State

- Companies Non-Active Non-Selected
- Companies Non-Active Non-Selected:Hover

#### Selection State

- Companies Active Non-Selected
- Companies 1 Active Selection made
- Companies 1 Non-Active Selection made
- Companies 1 Non-Active Selection made:Hover

#### Confirmation State

- Companies 1 Active Selection Confirmed
- Companies X Active Selection Deselect:Hover

### Complex Chips Conditionals

**1. Date Selector - No number is displayed, only the date range**

- 07/25/18 - 08/02/18 Non-Active Non-Selected, pre-populated with a selected date range
- 07/06/14 - 08/02/14 Date Selector Active Selection Made
- 07/06/14 - 08/02/14 Date Selector Active Selection Confirmed

Template / Table Filtering

**Mobile** Prototype

Active State

Filter Selected State

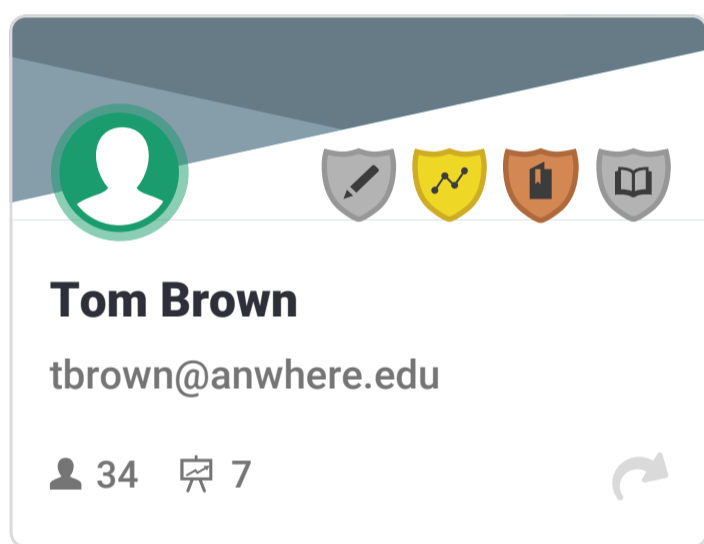
Selected Confirmed State

### Badges

Badges are visual representation of the status of the detail page. These high level data visualizations have specific meaning, based off of the icon and color of the badge. All badges can be bronze, silver or gold.

	Static Design	Dynamic Design	Dynamic Hover State
Annotations Badge			
Analytics Badge			
Bookshelf Access Badge			
Book Access Badge			
Metrics Badge			

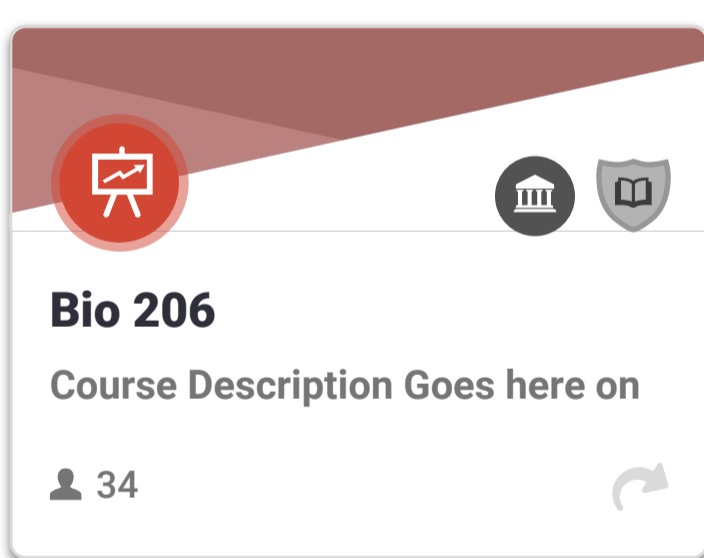
### Badges - Usage Scenerios



Large Instructor Card



Instructor Detail Page



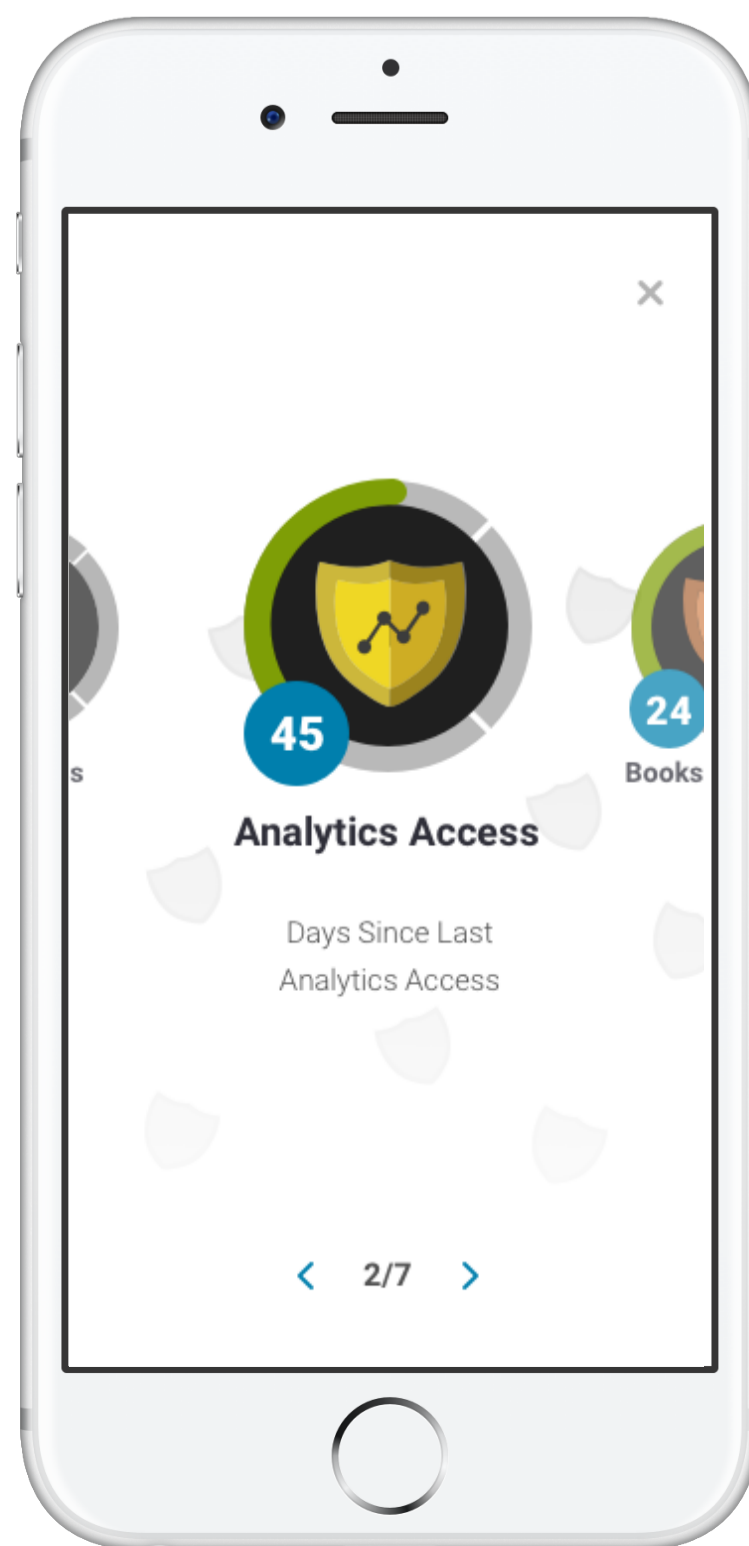
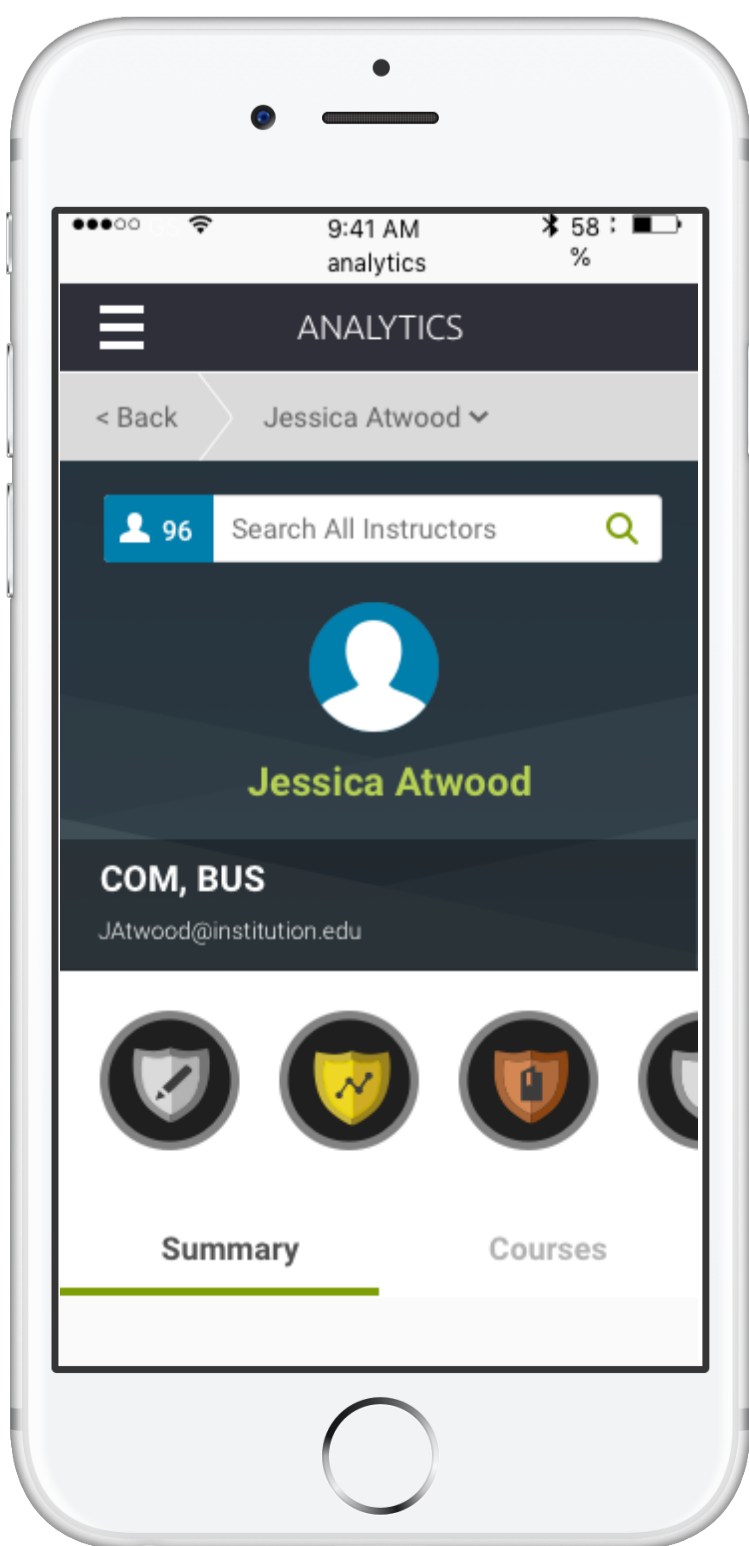
Large Course Card



Shared Annotations Graph

### Badges - Screen Sizes

Spec Files



#### Mobile 320px

On mobile on-click, badges display as a fullscreen takeover, with a carosaul showing the associated details.

## Cards

Cards are used to display high level information about a page. Cards that are displayed near each other are categorically similar in some fashion. The basics color theory allows the avatar colors to change on cards. There are two sizes of cards.

Large

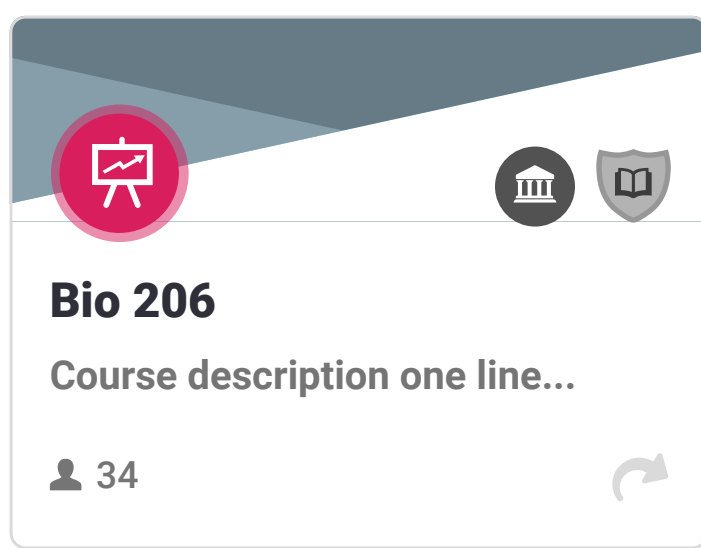
Small

### Large Card

- The front of a large card is composed of: Avatar, Badge(s), Title, Sub-title, Stat(s), Flip Icon
- Clicking the Flip Icon will turn the card to show the back.
- Clicking anywhere on the back of a card will turn the card back to the front
- The back of a large card is composed of rows containing: Badge/Icon, Title, Stat
- Hovering over any part of the card EXCEPT the flip icon will...  
TBD - this should reference Principal // Color, but not reiterate it.
- Responsive notes: Card widths change when screen is  $\leq 320$ px wide
- Mandatory items: Component // Avatar
- Optional items: Component // Badge

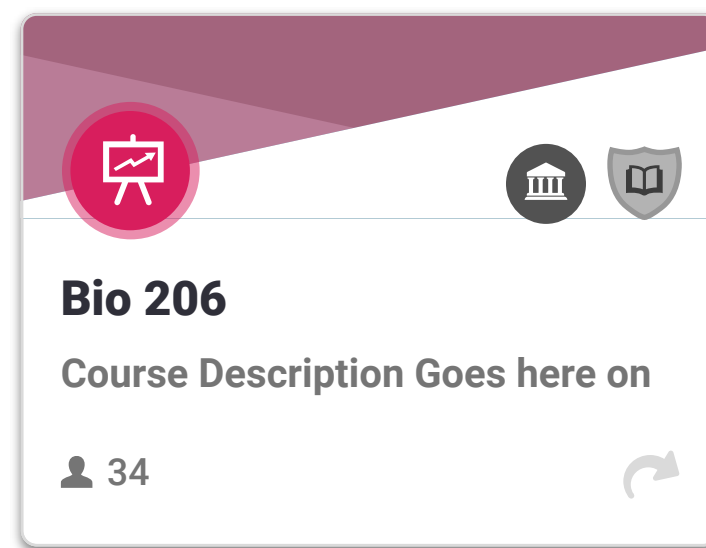
### Large Card - Course

Active Large Course Card  
Front







Width: 262px  
Height: 200px  
border-radius: 6px #DADADA;

Hover



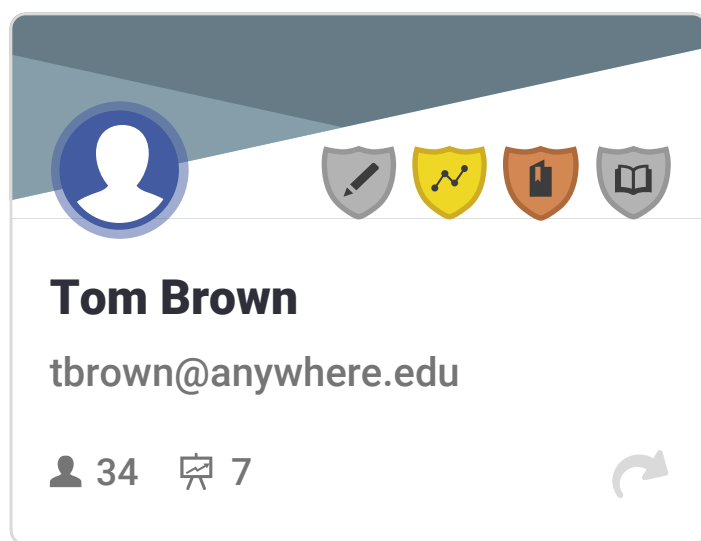
Width: 262px  
Height: 200px  
border-radius: 6px #DADADA;  
box-shadow: 0px 4px 4px  
rgba(0,0,0,0.5);

Back

 Date	4/23/2018 - 7/27/2018
 Avg Sess Length	16:34
 IA Opt-Out Rate	13%
 Book Access	Silver

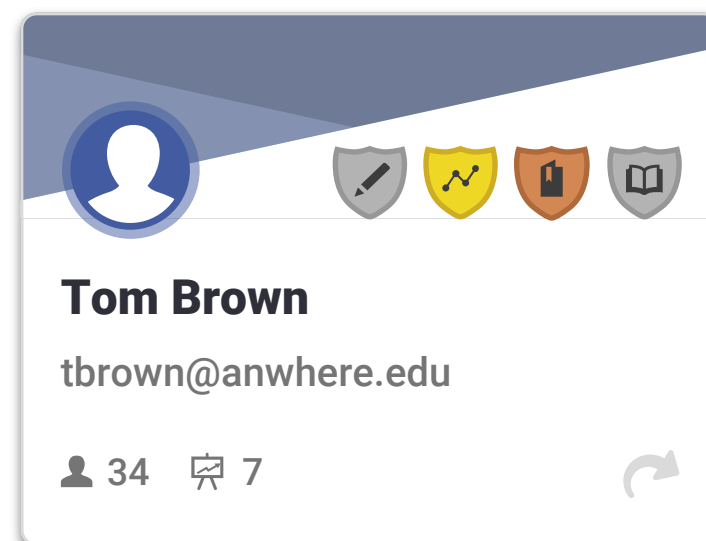
### Large Card - Instructor

Active Large Instructor Card  
Front







Width: 262px  
Height: 200px  
border-radius: 6px #DADADA;

Hover



Width: 262px  
Height: 200px  
border-radius: 6px #DADADA;  
box-shadow: 0px 4px 4px  
rgba(0,0,0,0.5);

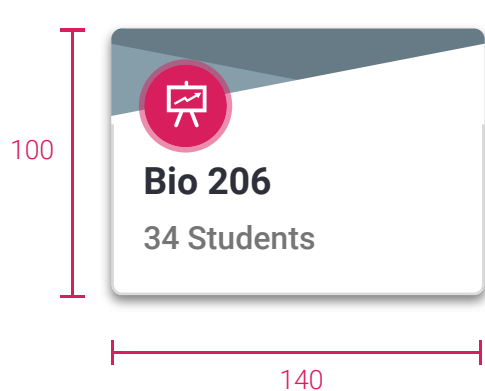
Back

 Analytics Access	Gold
 Bookshelf Access	Bronze
 Shared Annotations	Silver
 Book Access	Silver

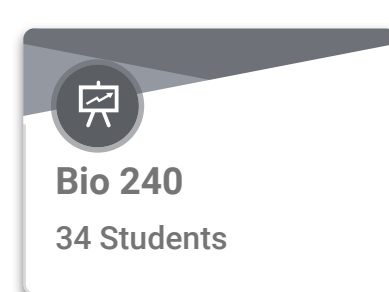
### Small Card

- The front of a large card is composed of: Avatar, Title, Sub-title
- Small course cards cannot be flipped
- Responsive notes: Card widths change when screen size is  $\leq 320$ px wide
- Mandatory items: Component // Avatar
- Option items: Component // Badge

Active Small Course Card

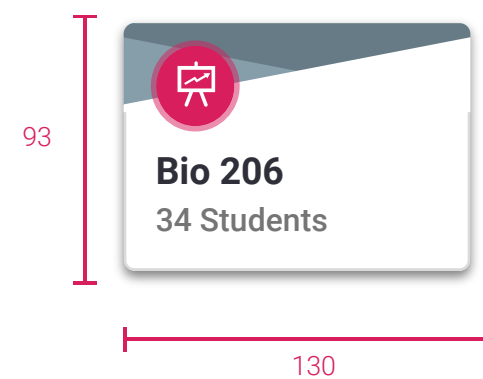


Inactive Small Course Card

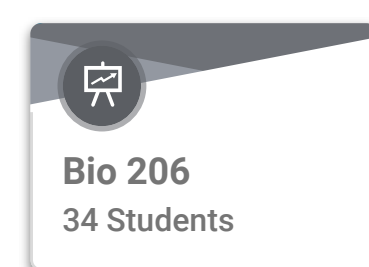


Mobile

Active Small Course Card

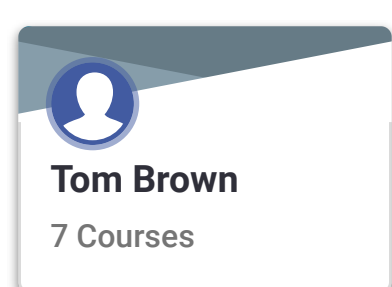


Inactive Small Instructor Card

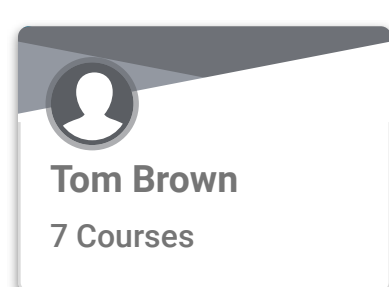


### Small Card - Instructor

Active Small Instructor Card

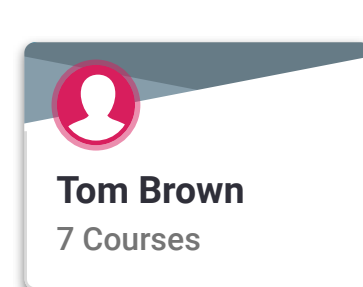


Inactive Small Instructor Card

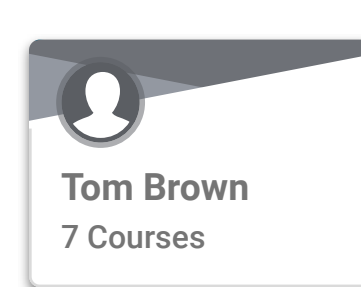


Mobile

Active Small Instructor Card



Inactive Small Instructor Card









Buttons

Checkboxes

Radio Selectors






Toasts

## Buttons


44		<b>LARGE</b>	background-color: ocean-7; hover: ocean-8; font-size: 18px; font-weight: 500; height: 44px; padding: 0 32px; border-radius: 4px;	<b>MED-LARGE</b>	background-color: ocean-7; hover: ocean-8; font-size: 16px; font-weight: 500; height: 40px; padding: 0 27px; border-radius: 4px;	<b>MEDIUM</b>	background-color: ocean-7; hover: ocean-8; font-size: 14px; font-weight: 500; height: 34px; padding: 0 20px; border-radius: 4px;	<b>SMALL</b>	background-color: ocean-7; hover: ocean-8; font-size: 12px; font-weight: 500; height: 24px; padding: 0 16px; border-radius: 4px;
40									
34									
24									

## Checkboxes

Checkboxes allow the user to select any combination of options in a group. They can be found in dropdowns, forms and tables.





- Checkbox default
- Checkbox in focus
- Checkbox checked
- Checkbox checked in focus
- Checkbox disabled
- Checkbox error 
- Checkbox error in focus 
- Checkbox checked error 
- Checkbox checked error in focus  



Checkbox description error 

## Radio Buttons

Radio buttons are used when there is a list of two or more options but the options are mutually exclusive and the user must select one choice.

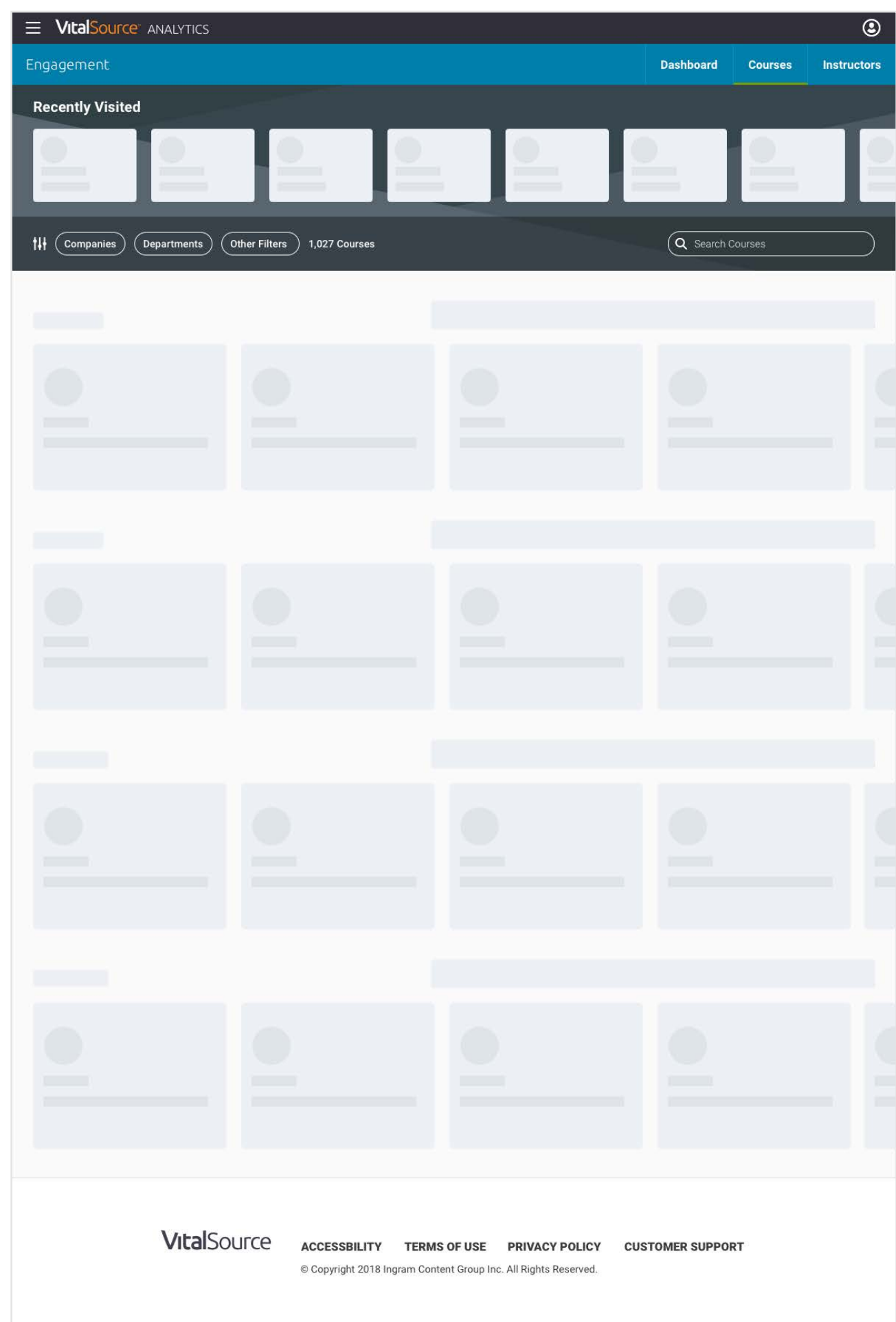
- Radio button default
- Radio button in focus
- Radio button selected
- Radio button selected in focus
- Radio button disabled
- Radio button error 
- Radio button error in focus 
- Radio button selected error 
- Radio button selected error in focus 

## Loading Indicators

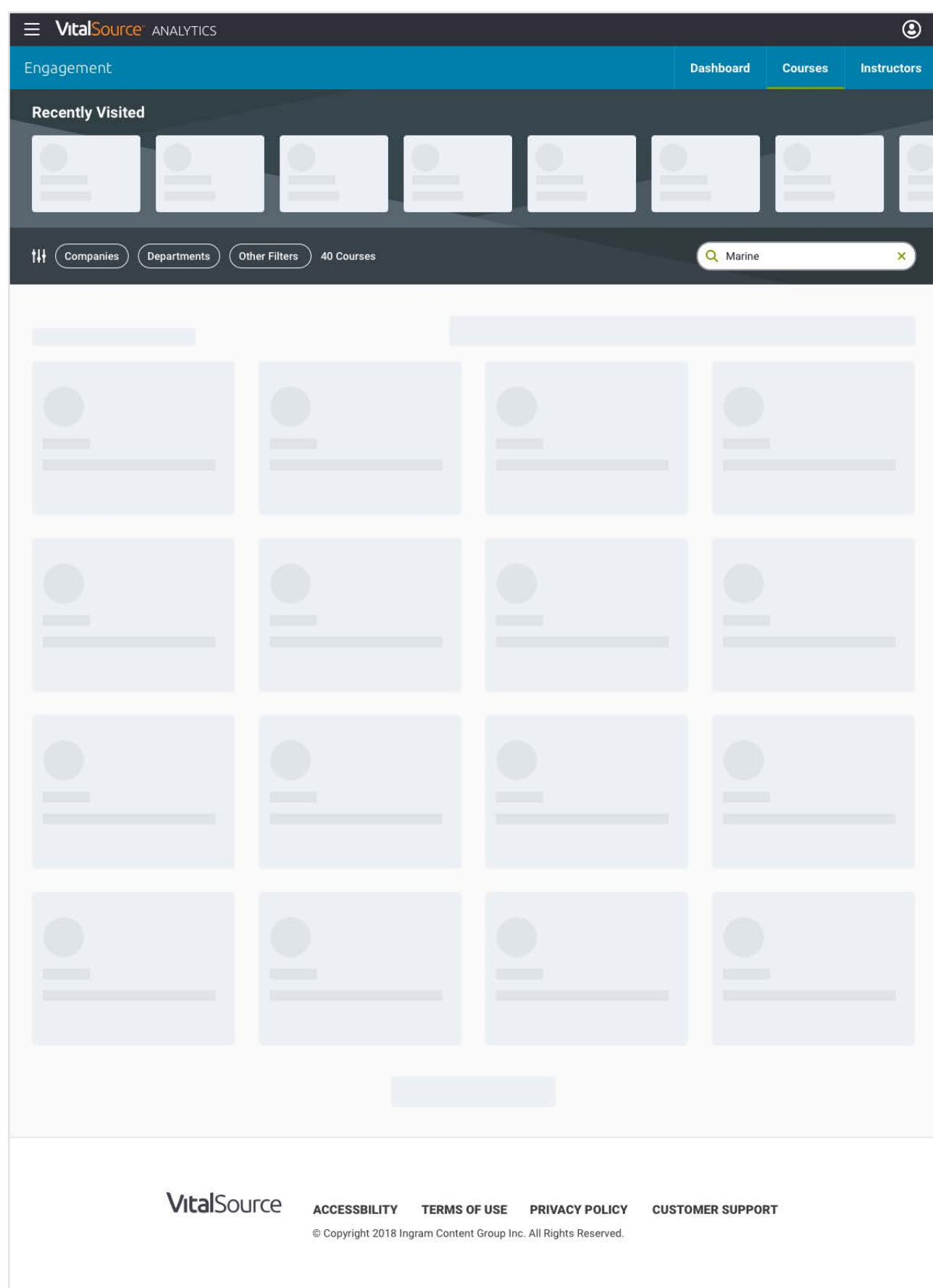
- [Skeleton Screens](#)
- [Error Pages](#)
- [No Data/Error](#)

### Skeleton Screens

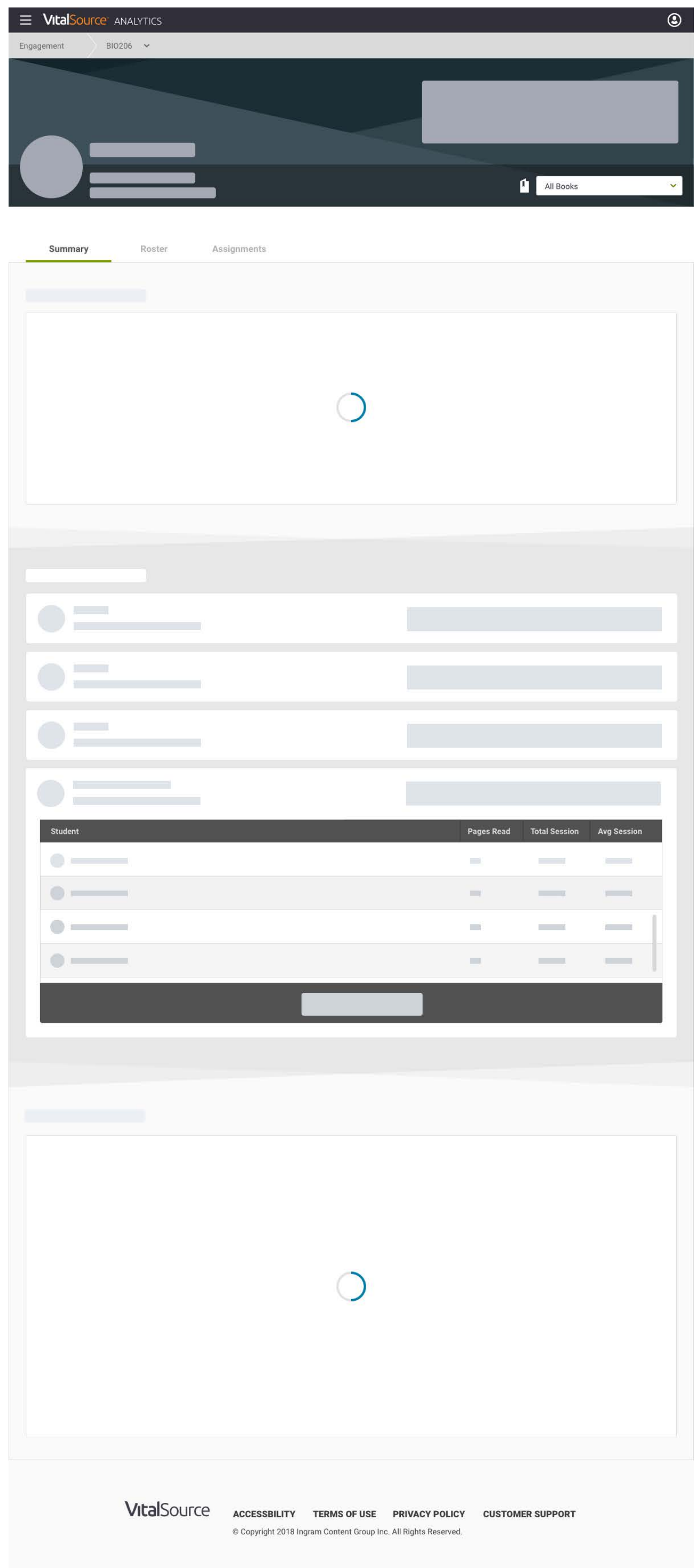
Swimlanes have a layer of skeleton screens that display if they take too long to load, so do metrics.



If the user searches, there is a layer of skeleton screens built in to return the results.



Each component has its own styling of a skeleton item that loads, visually displaying a generic view of said component.



Template / Scatter Plot Graph

Complex tables display a spinner loader, as the graphs and charts are too complex to show through a skeleton screen.

Template / Dynamic Accordion

Template / Table - Layout 6

### Icons - Utilitarian

Avatars



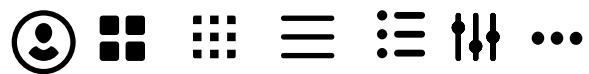
Arrows



Action



Menu



Error and Confirmation



Books



### Icons - Analytics

Devices



Graphs



Money



Notes



Disciplines



Globes



## Type

Font Family

# Roboto

google fonts

---

**Roboto Black 900**

**Roboto Bold 700**

**Roboto Medium 500**

Roboto Regular 400

Roboto Light 300

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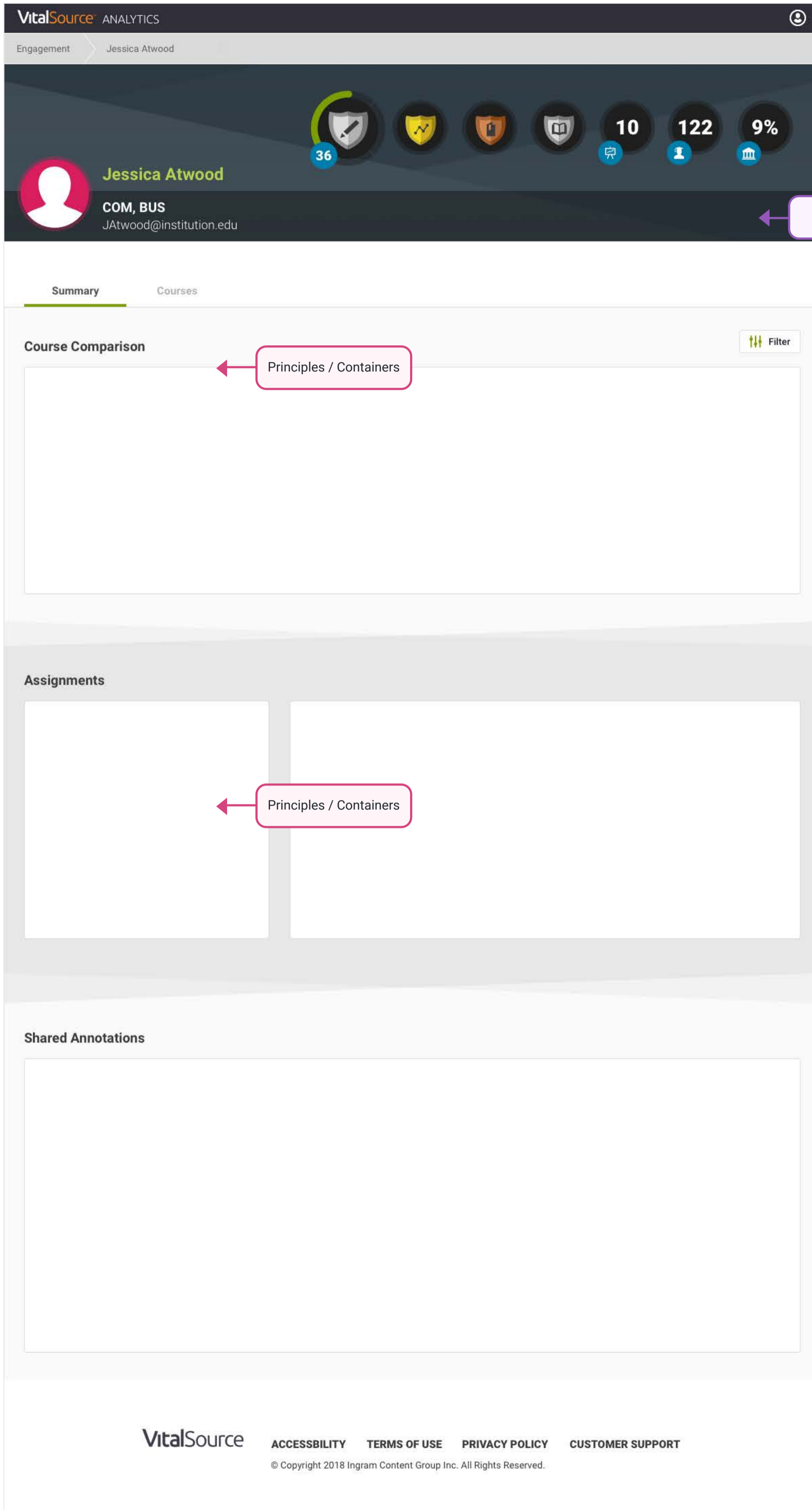
### **Default Body Font:**

font-family: Roboto;

font-size: 16px;

font-weight: regular 400;

## Background Patterns



### Background repeating patterns

- Headers typically have a dark background, whether that is with a detail page header or a swimlane. Therefore the first background block after the header should be #FAFAFA.
- The only conditional for the next background not being #FAFAFA would be if there were tabs displayed, then they would have a #FFFFFF background, followed by the #FAFAFA in the container area.

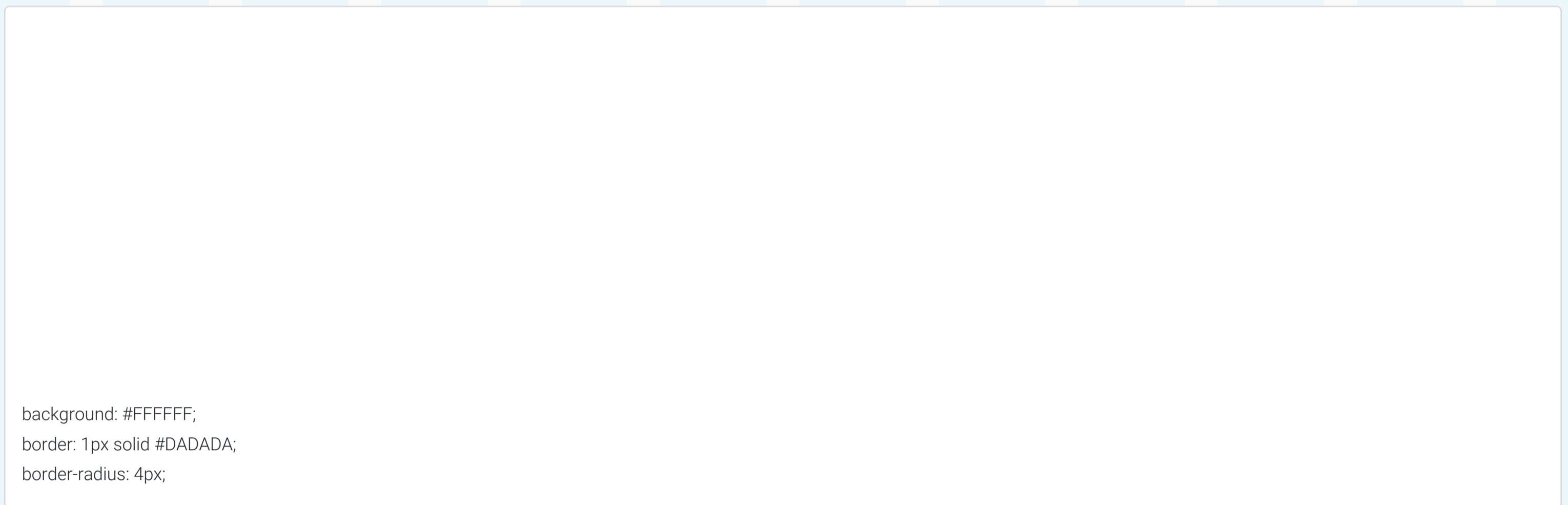
## Containers

The containers are meant to be a cohesive component that brings together like items in a row.

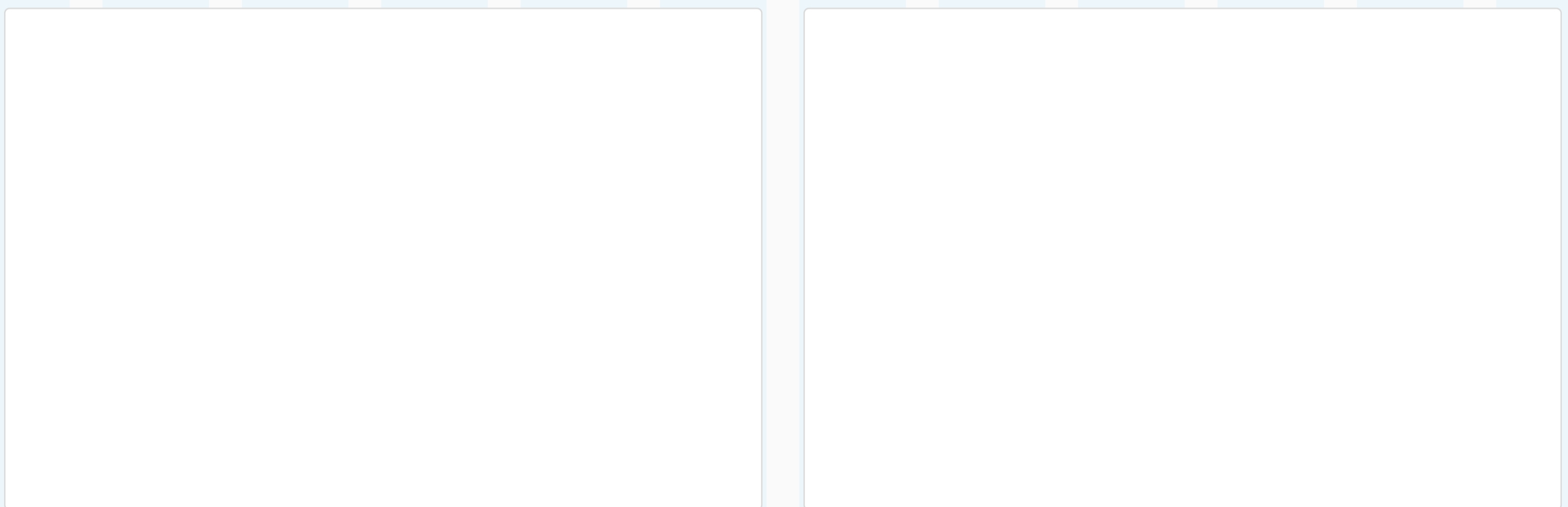
[Layout 1](#)[Layout 2](#)[Layout 3](#)[Layout 4](#)[Layout 5](#)

Bootstrap grid

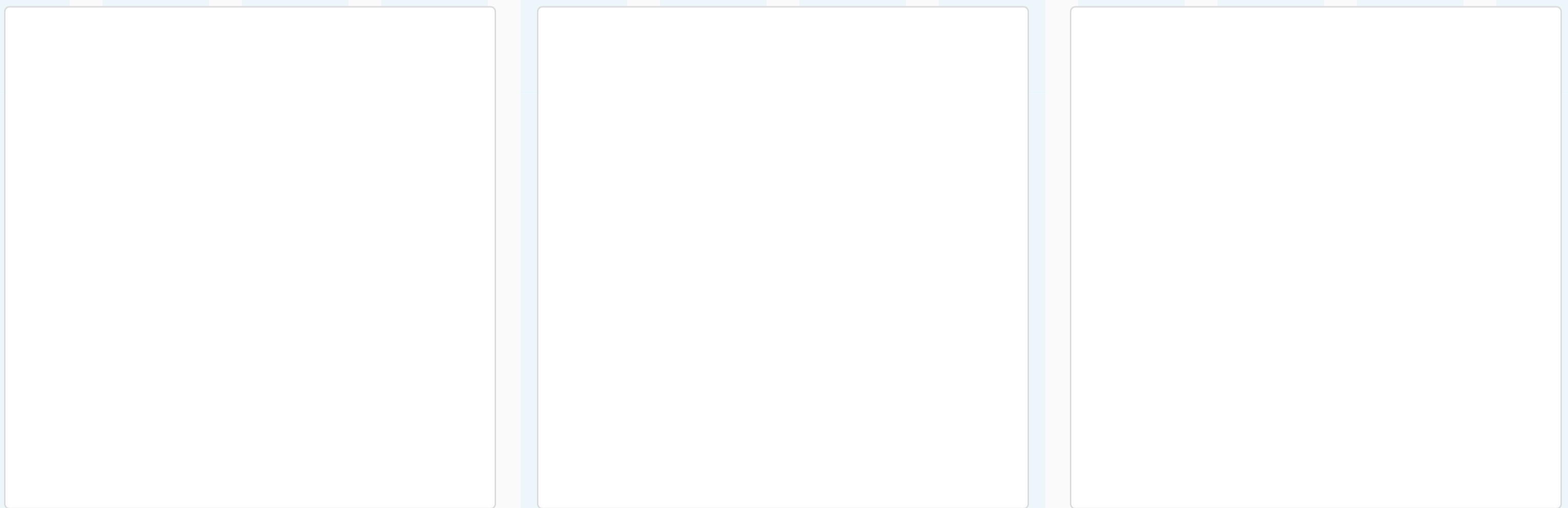
### Title Goes Here - Layout 1



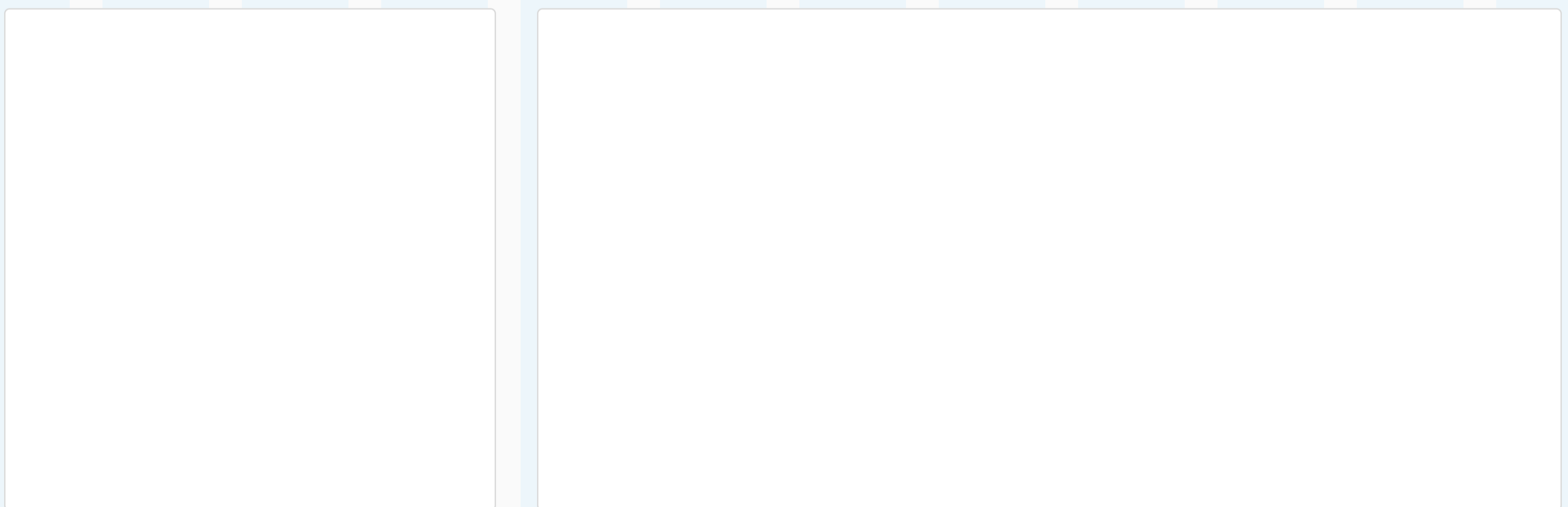
### Title Goes Here - Layout 2



### Title Goes Here - Layout 3



### Title Goes Here - Layout 4



### Title Goes Here - Layout 5

