

**ESRI DEVELOPER SUMMIT 2023** 

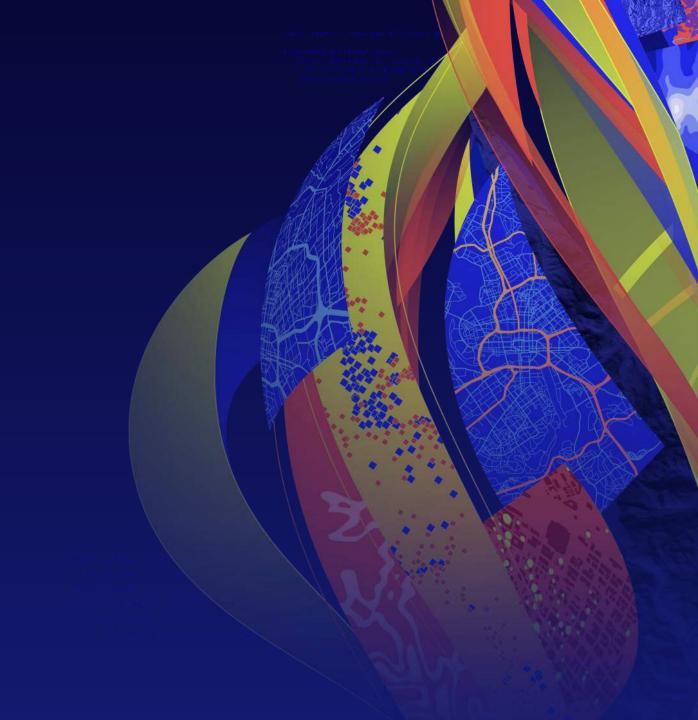
## Design Apps with Style and Layout

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## Agenda

- Page Types
- Layouts Types
- Size and Position
- Mobile Optimization

# Page Scrolling vs Fullscreen

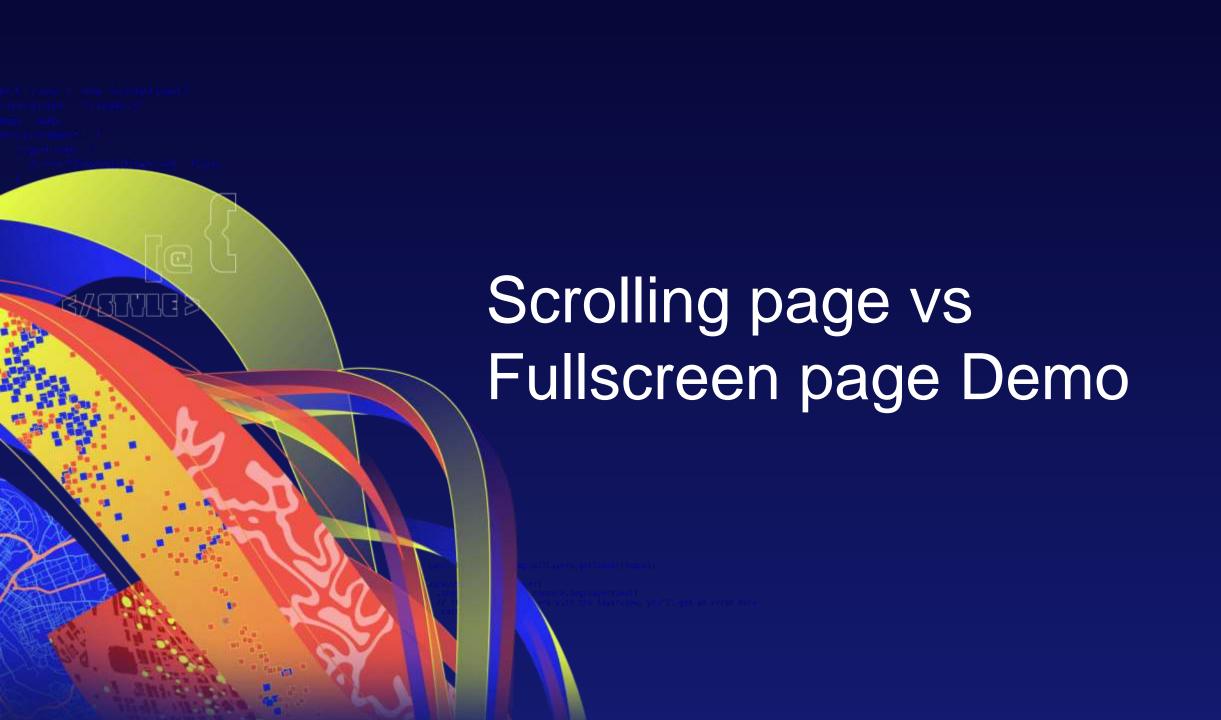


#### Scrolling Page

- One long single page
- View one block at a time
- Scroll to navigate
- Content arrangement
  - Top down block by block
  - Pre-configured templates
    - Block
    - Screen Group

#### Fullscreen Page

- Single block page
- No scrolling navigation
- Scroll to navigate
- Content arrangement
  - Place widgets on a page just like a sticky note on a whiteboard
  - You determine the size and position of a widget
  - Widgets can overlap each other

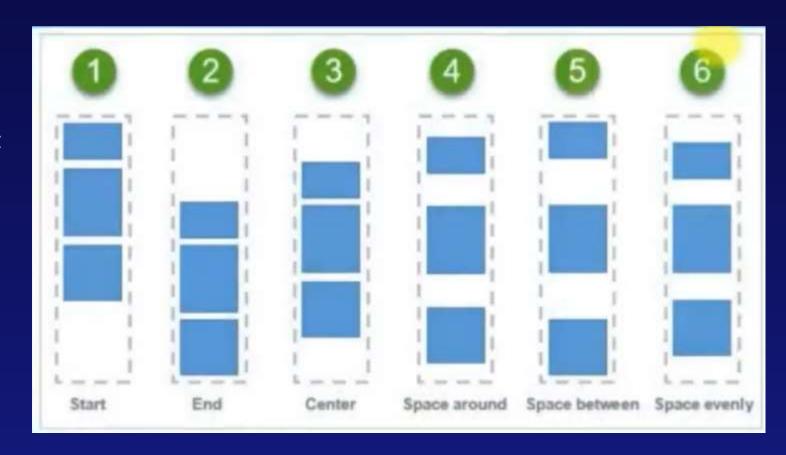


# Layouts Simple vs Compound

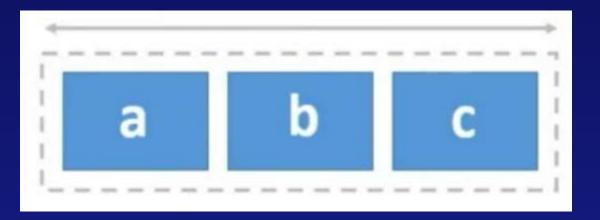


- Ways to organize elements
  - Vertically
  - Horizontally
  - Randomly

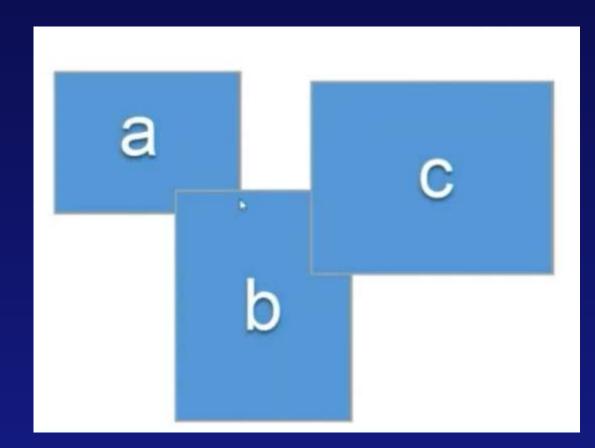
- Vertical organization Column
  - Organizes content vertically as a single column
  - Vertical expands as more content is added to it
  - Each grid can manually be resized
  - Gap, padding and vertical alignment is adjustable



- Horizontal organization Row
  - Organizes content side-by-side in a row
  - Contains 12-column grids
  - All grids are equal in size
  - Grid size adjusts based on the gap and padding and settings
  - Widget snaps to the grid and can span across one of more grids



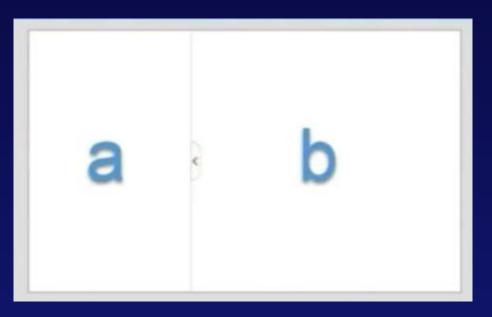
- Random organization Fixed panel
  - Randomly place widgets inside a Fixed panel
  - Like sticky notes on a whiteboard
  - Resize nested widgets with absolute or relative positions
  - Fullscreen page is like a large fixed panel





### Layout - Compound

- Sidebar
  - Consists of two fixed panels
  - One panel is collapsible
  - Dock style is configurable

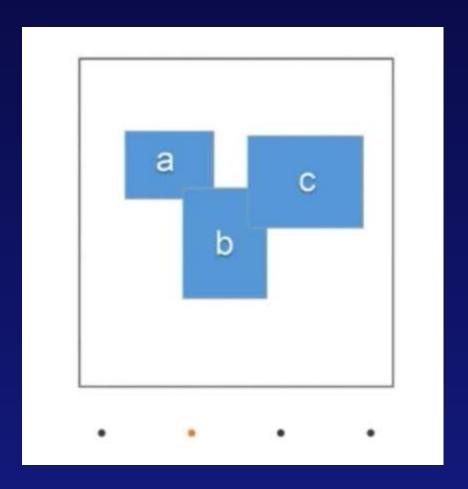




#### Layout - Compound

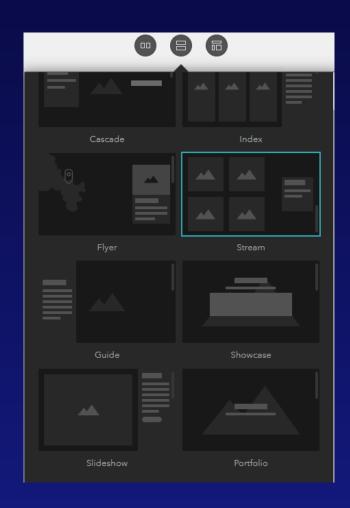
#### Section

- Accommodates for multiple views
- Show one view at a time
- Navigate with Views Navigation
- Each view can include a combination of any widgets
- Random arrangement inside a view
- Section is like a stack of fixed panels



#### Layout - Compound

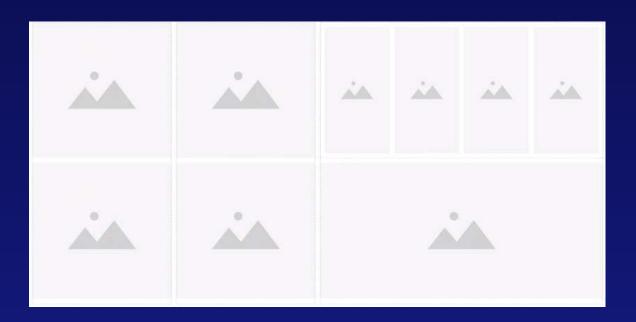
- Screen Group
  - Multiple screens
  - Scrollable within the screen group
  - Each screen has a main stage
  - Each screen can also have a scrolling panel
  - Available in scrolling page only
  - Main stage remains in place until one full screen scrolls away
  - Scrolling panel is extendable
  - Scrolling height of a single screen based on the panel's content





#### Layout - Composite

- Combine different layout: put one into another
- In one layout, you may also have the power of another



#### Size and Position - Alignment

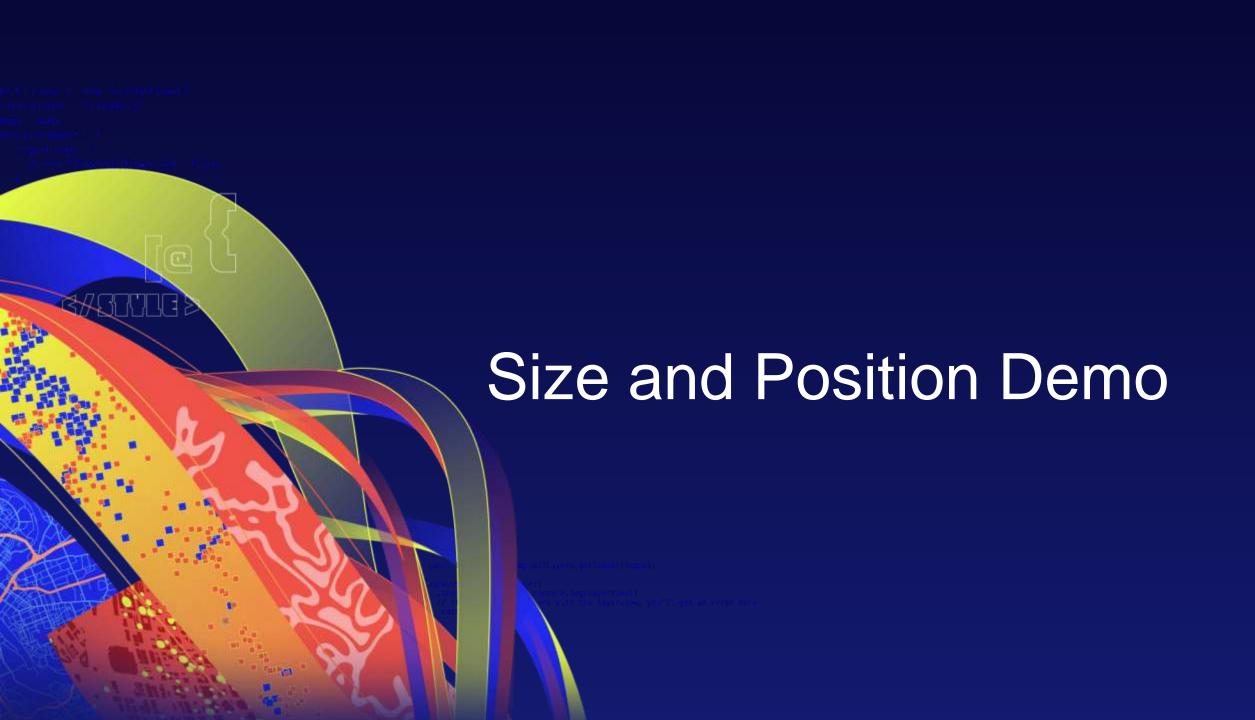
- Alignment with the parent container
- Widget's position determined by the align origin and offsets
- Pixel
  - Absolute
  - Not responsive during resize event
- Percentage
  - Relative positioning
  - Responsive during the resize event



#### Size and Position – Width and Heigh modes

- Four types
  - Custom Set specific values
  - Auto automatic based on the contained content
  - Stretch fulfill based on the size of its container
  - Aspect ratio keep the ratio of width and height

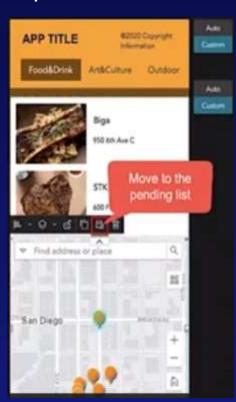


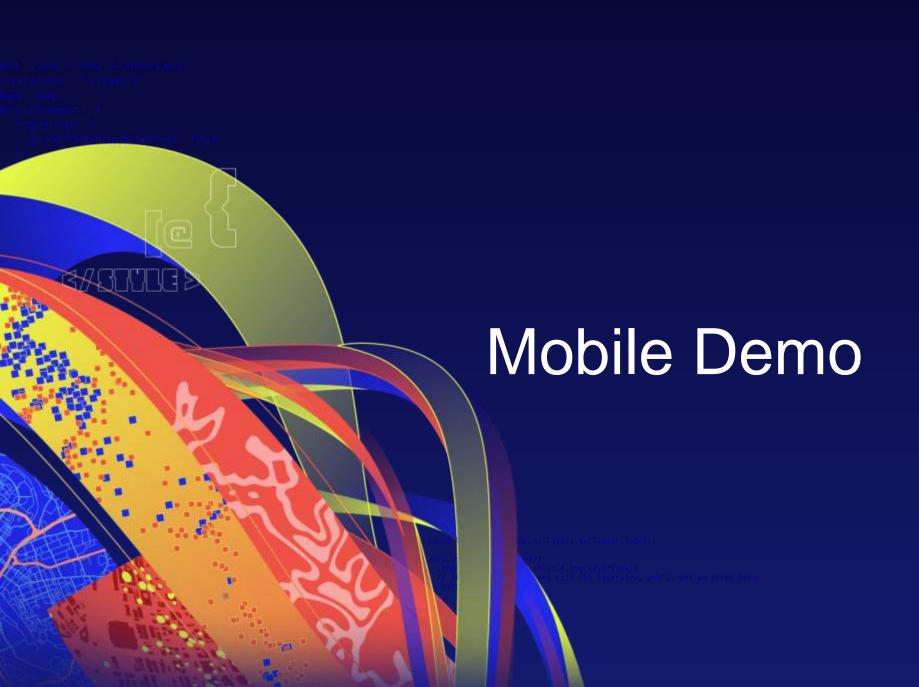


#### Mobile Optimization

- Configure your app for mobile form factor separate from the desktop experience
  - Change behavior of widgets, such as
    - Turn off tools on the map
    - Change the font color and size
  - Use less or different widgets
  - Change the layout of your app
  - Move widgets to the pending list instead of deleting them
    - These widgets will be available for the desktop version of your app







#### Mobile Optimization

#### 7 tips for responsive design

- Use structural layout widgets to organize content (Row, Column, Sidebar, etc.)
- 2. If fixed layout is used, be aware of sizing, positioning, alignment and offset
- 3. Design your app content first then customize the layout
- 4. Change how widgets will be displayed
  - A. Example: use smaller font size or icons for widgets
- 5. Move unneeded widgets to pending list
- 6. Preview all available screen sizes
- 7. Recommendation: Use one of the ExB templates for convenience

