



ArcGIS Experience Builder: Designing apps with Style and Layout

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Topics

- **Page**
 - Page type
- **Layout**
 - Simple Layout
 - Compound Layout
 - Composite Layout
- **Style (Size & Position)**
 - Alignment
 - Units
 - Width/ Height Modes
- **Device Response**
- **Live Q&A**



Page

Scrolling vs. Fullscreen

Page – Scrolling page

Visual Metaphor

Scrolling page is like a **skyscraper**

Long page

View one block at a time

Scroll to navigate

Tall building

Visit one floor at a time

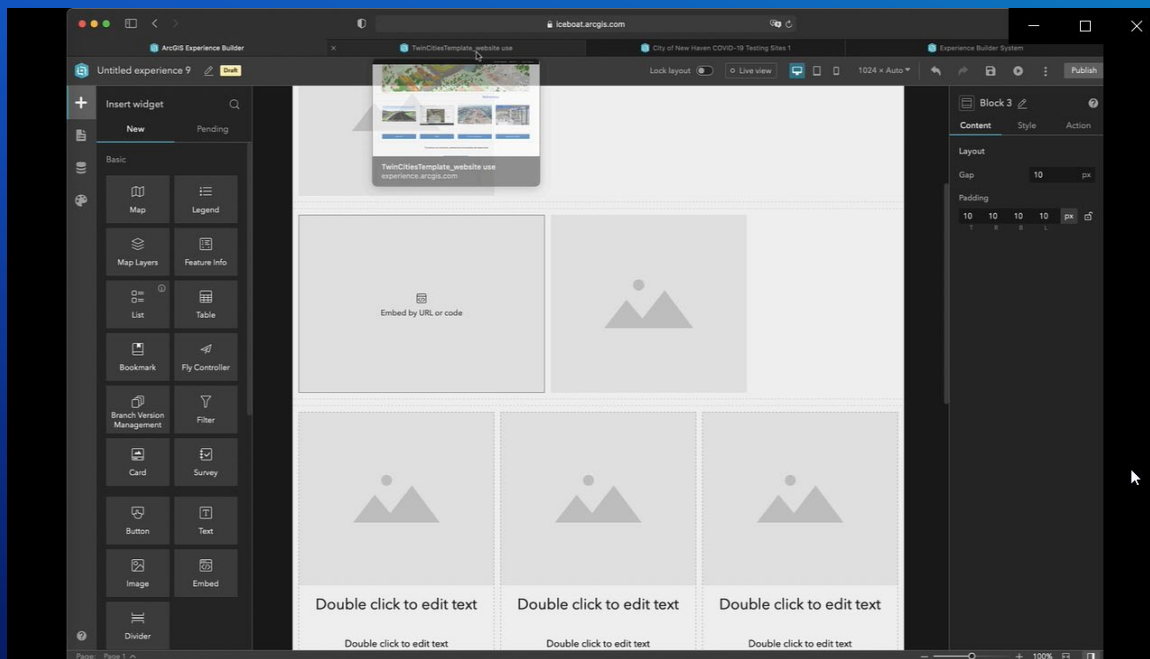
Use elevator to navigate



Page – Scrolling page

Arrangement

- top down
- “floor” by “floor”
- pre-built “floor” templates provided by EXB
 - Block
 - Screen Group



Demo

Scrolling page

Jian Wang

Page – Fullscreen page

Visual Metaphor

Fullscreen page is like a **single-storey house**

One block

No scrolling navigation

One floor

No elevator

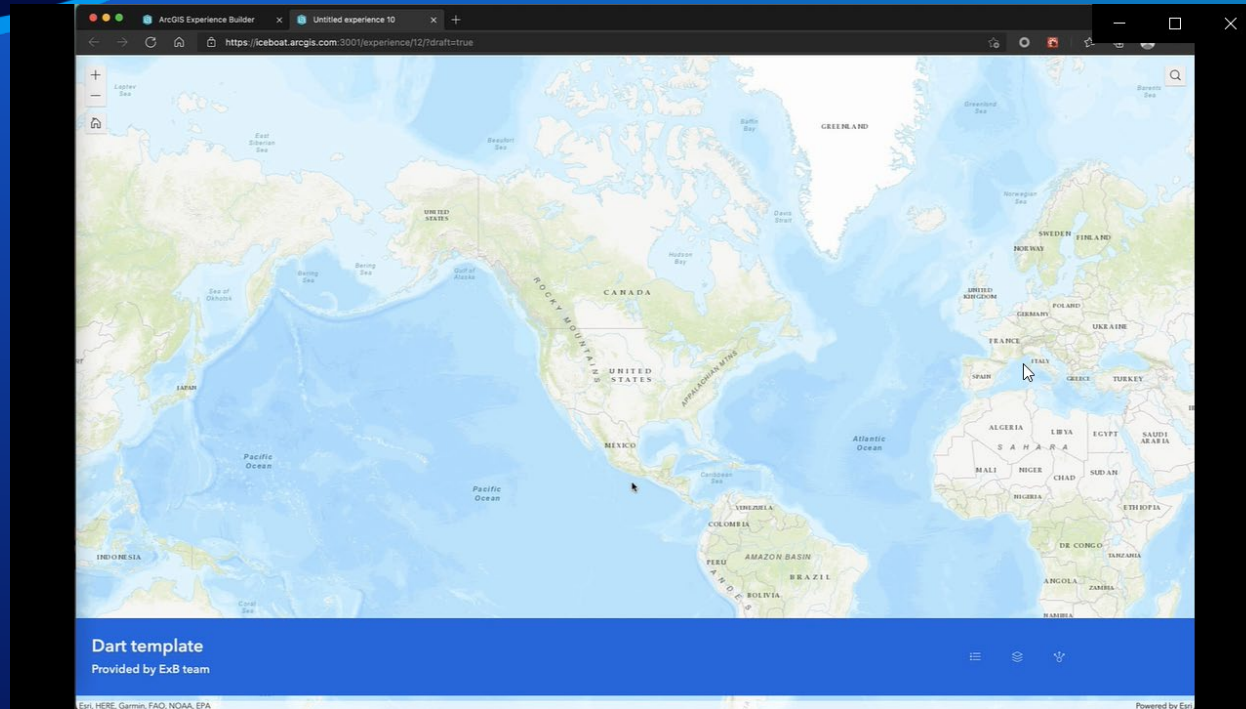


Page – Fullscreen page

Arrangement

- Place widgets on the page just like to stick notes on a whiteboard
- Need to decide the size and position of a widget
- Widgets can be overlapped





Demo

Fullscreen page

Jian Wang



Layout

Simple layout

Layout – Simple

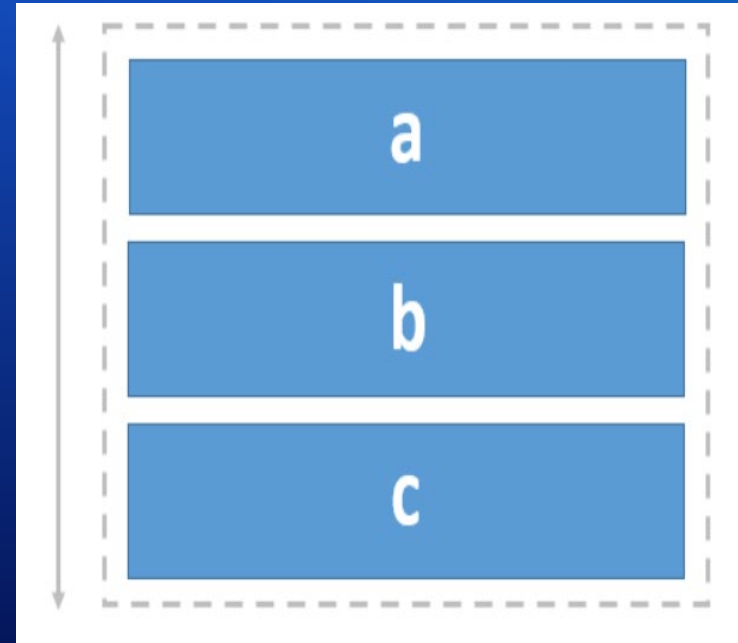
Ways to organize elements

- Vertically
- Horizontally
- Randomly

Layout – Simple

Vertical organizing - Column

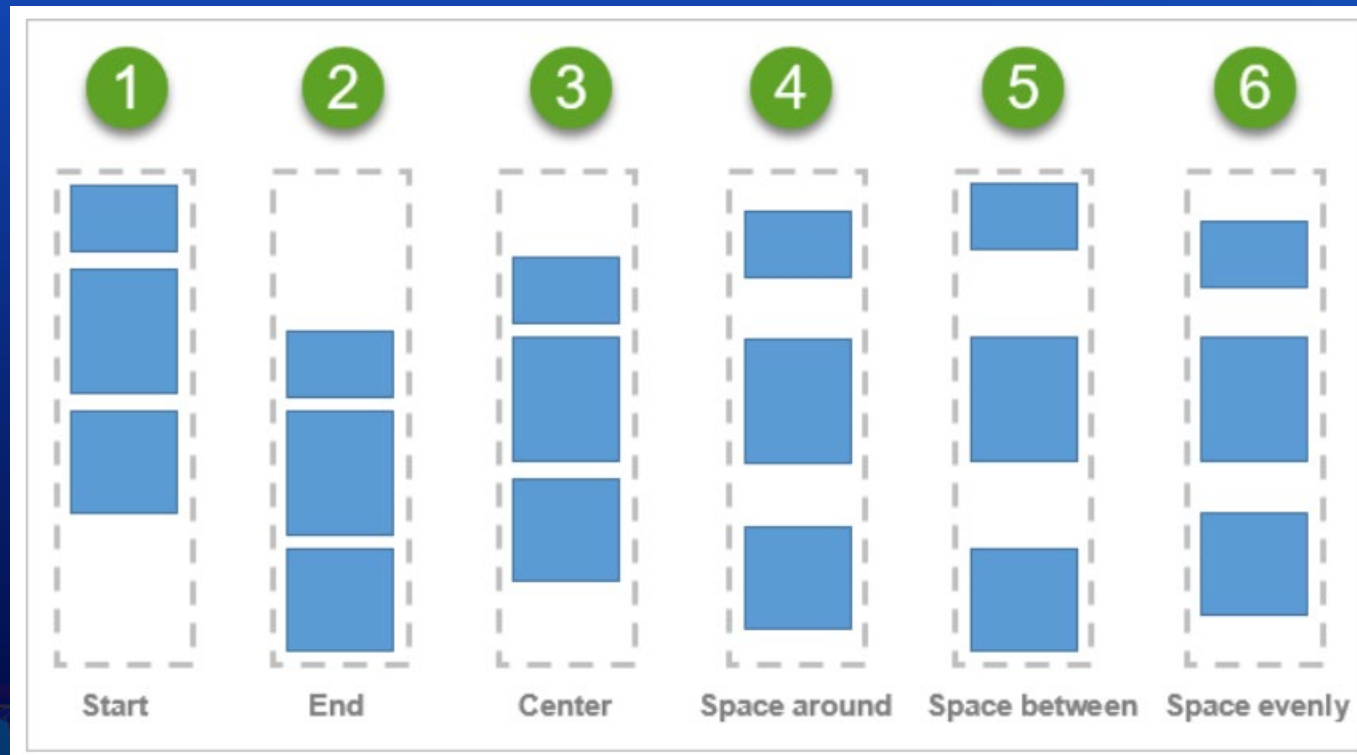
- organize content vertically as a single column
- the vertical grids expand when you add more widgets to it
- the size of each grid is resizable manually
- adjustable gap and padding
- adjustable vertical alignment

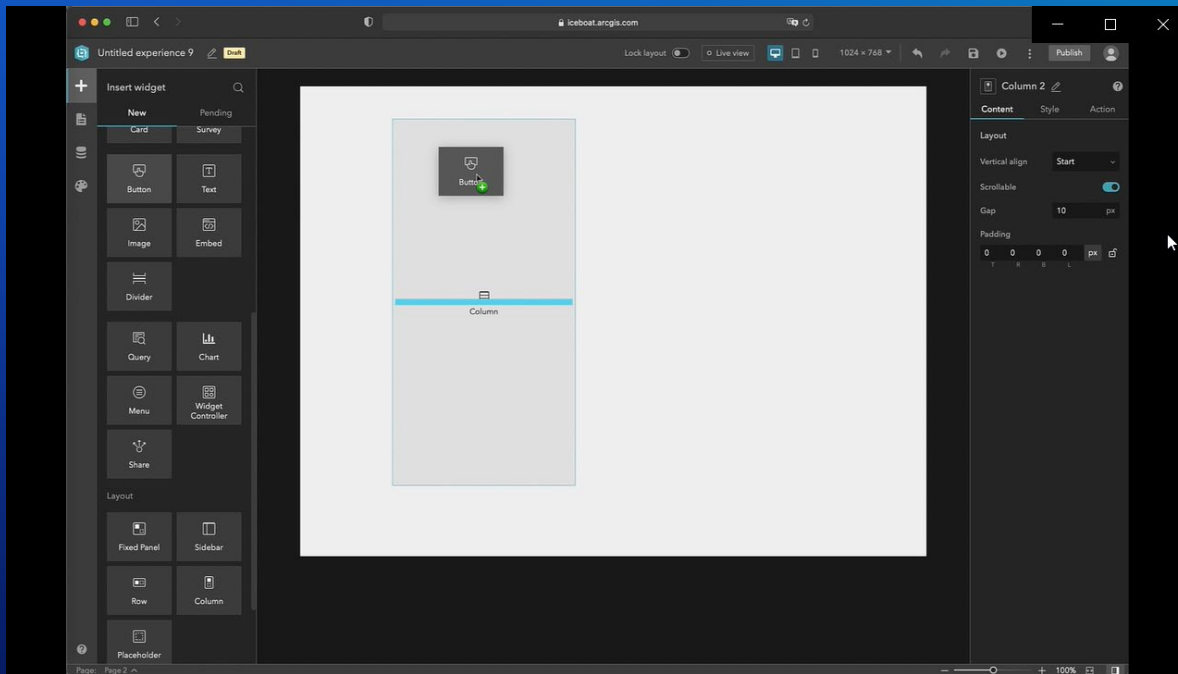


Layout – Simple

Vertical organizing - Column

Content arrange





Demo

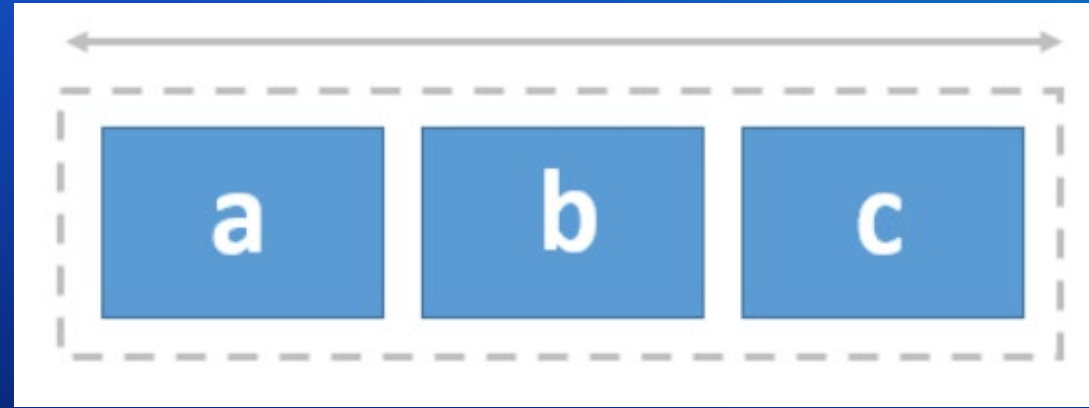
Vertical Arrangement - Column

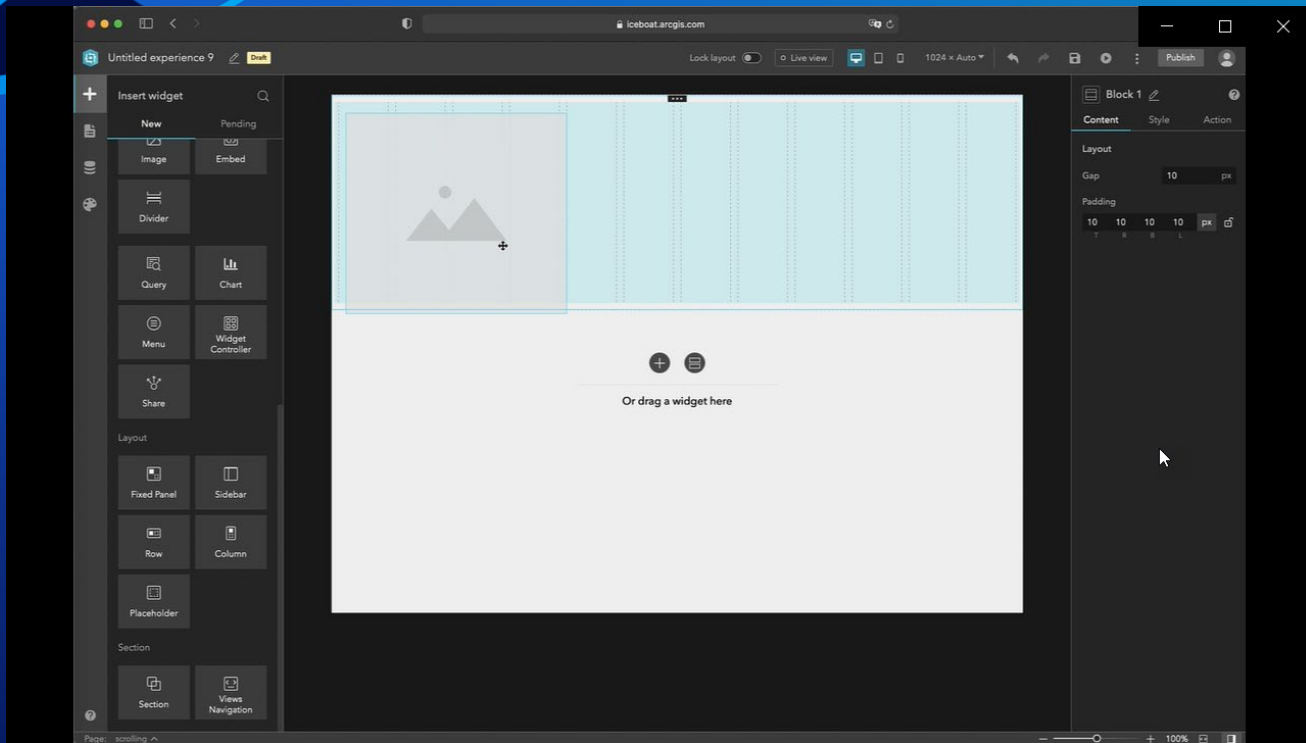
Jian Wang

Layout – Simple

Horizontal organizing - Row

- organize content side by side in an aligned row
- has 12-column grids
- all grids are equal size
- grid size adjusts based on the gap and padding settings
- widget snaps to the grid and can span across one or more grids





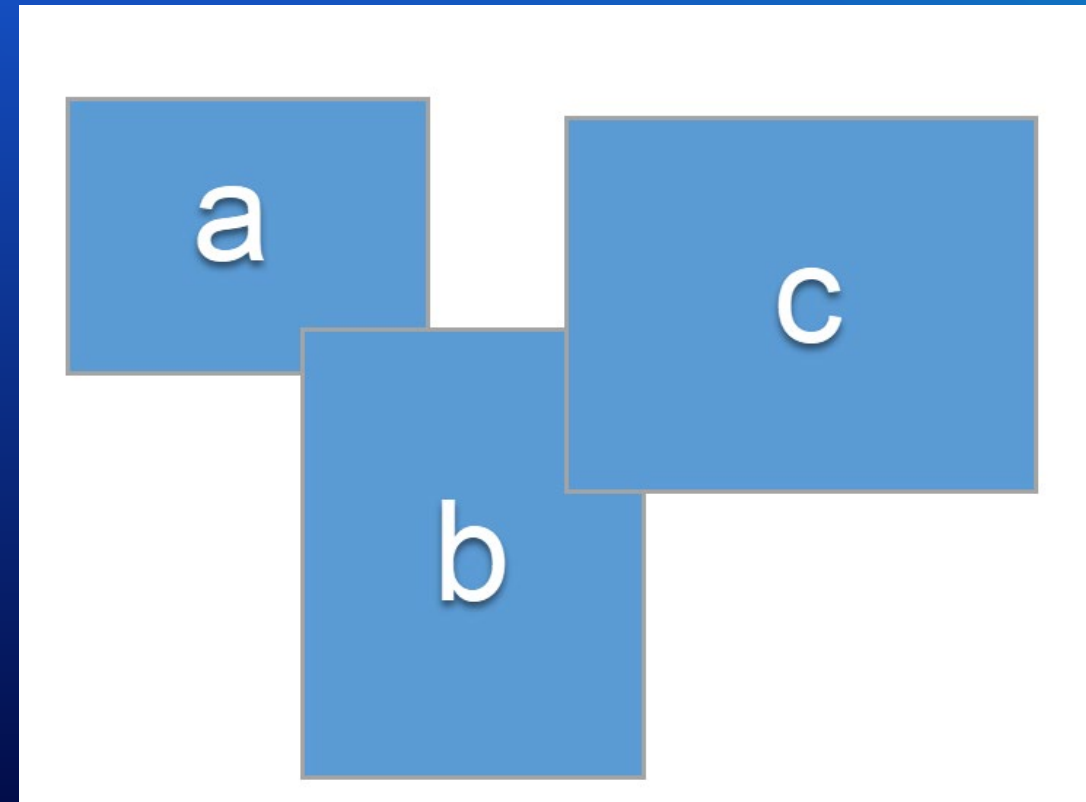
Demo Horizontal Arrangement - Row

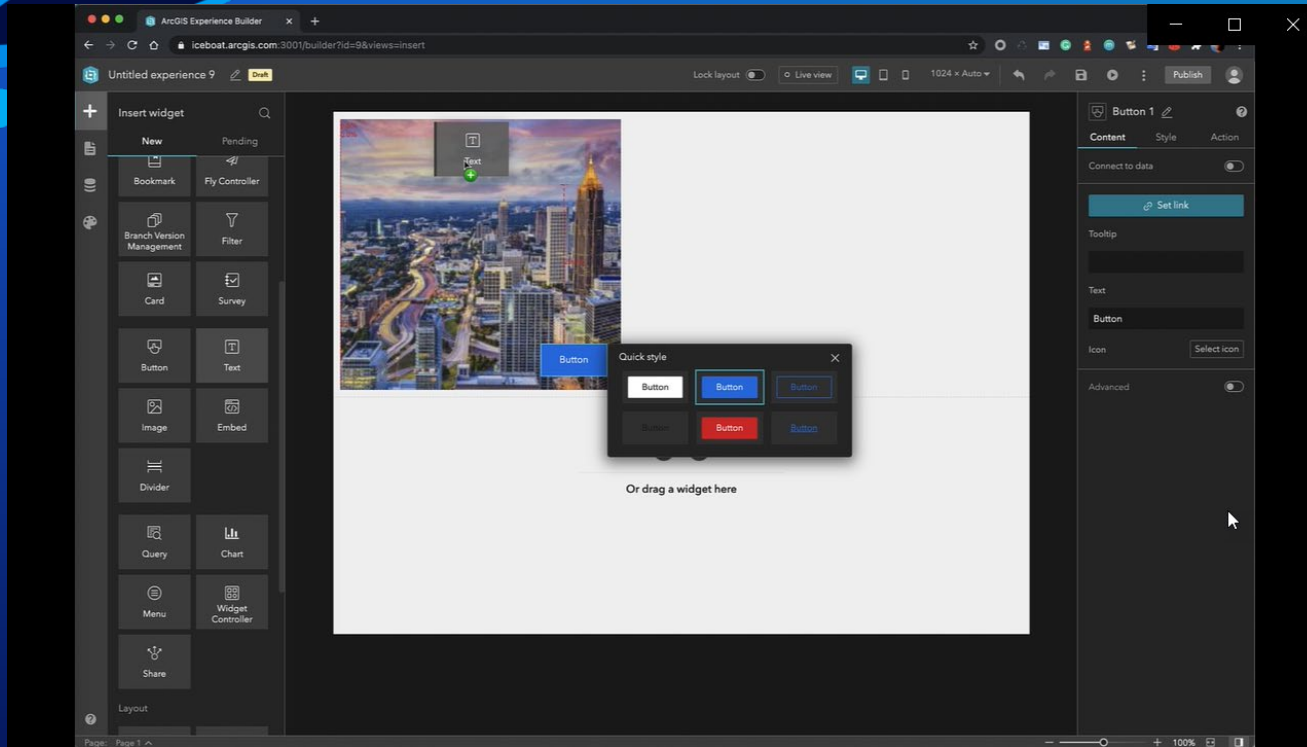
Jian Wang

Layout – Simple

Random organizing - Fixed panel

- randomly place widgets inside a Fixed panel
- like pin sticky notes on a whiteboard
- resize nested widgets with absolute or relative positions
- fullscreen page is like a large fixed panel





Demo

Random Arrangement – Fixed panel

Jian Wang



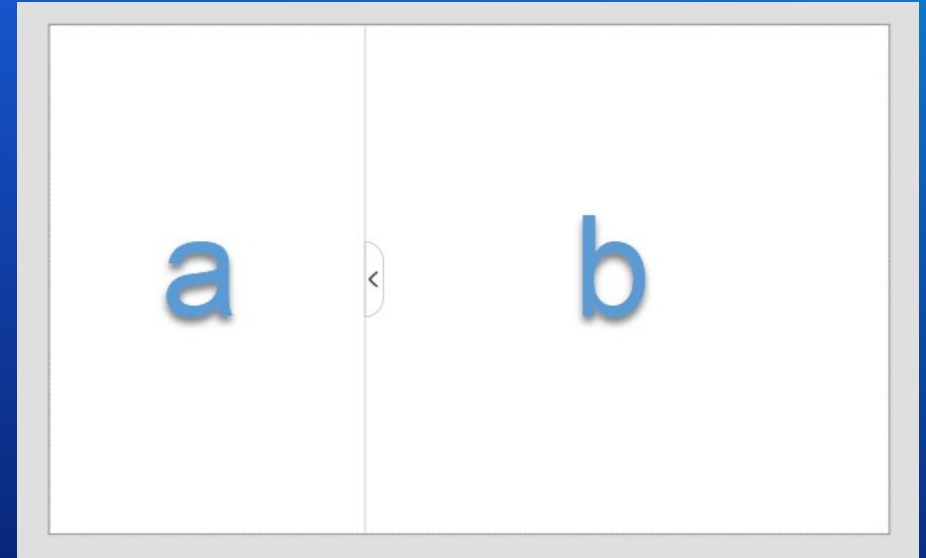
Layout

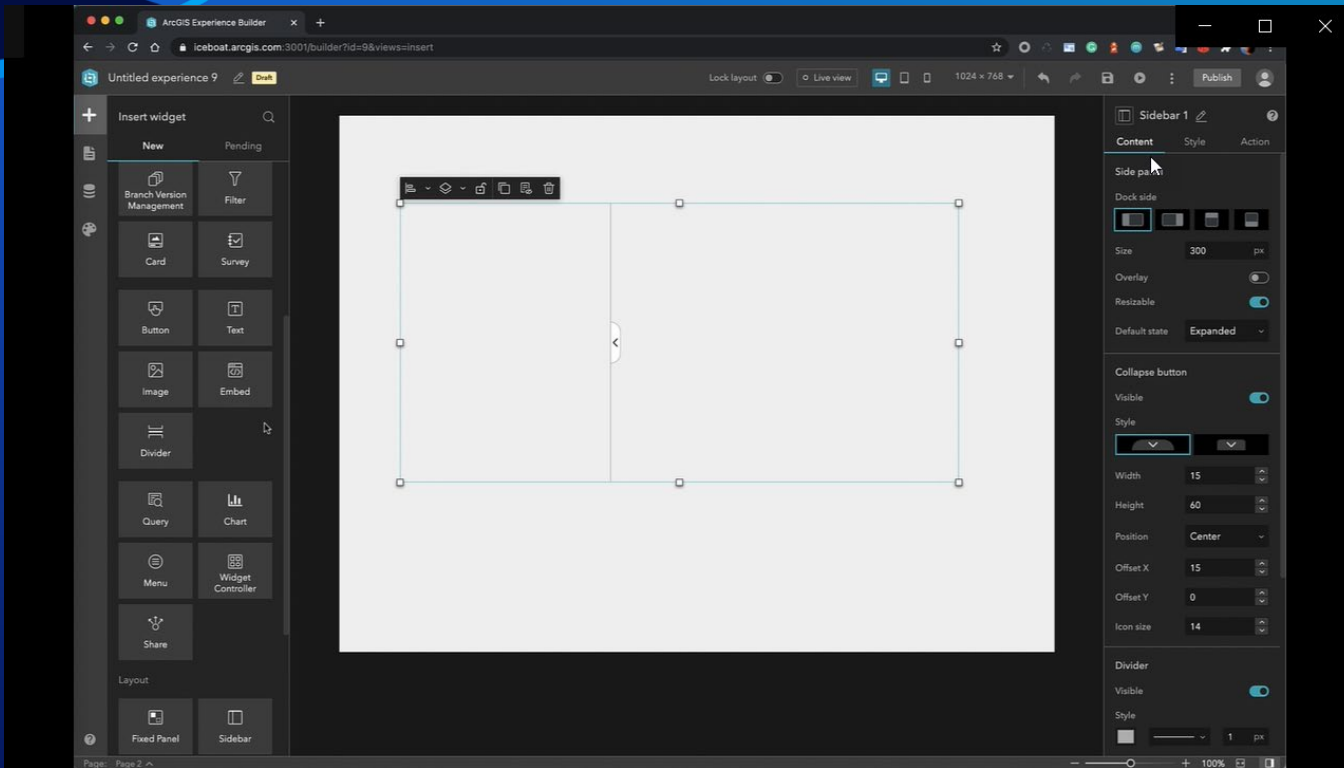
Compound Layout

Layout – Compound

Sidebar

- consist of two fixed panel
- one panel collapsible
- change the dock style





Demo

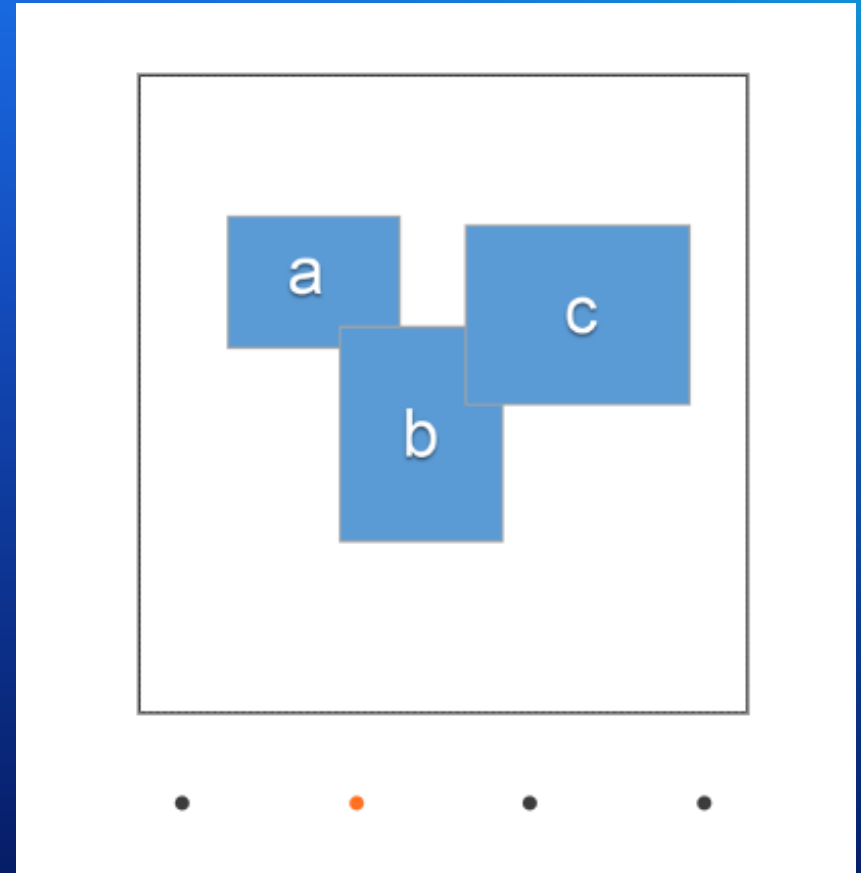
Sidebar

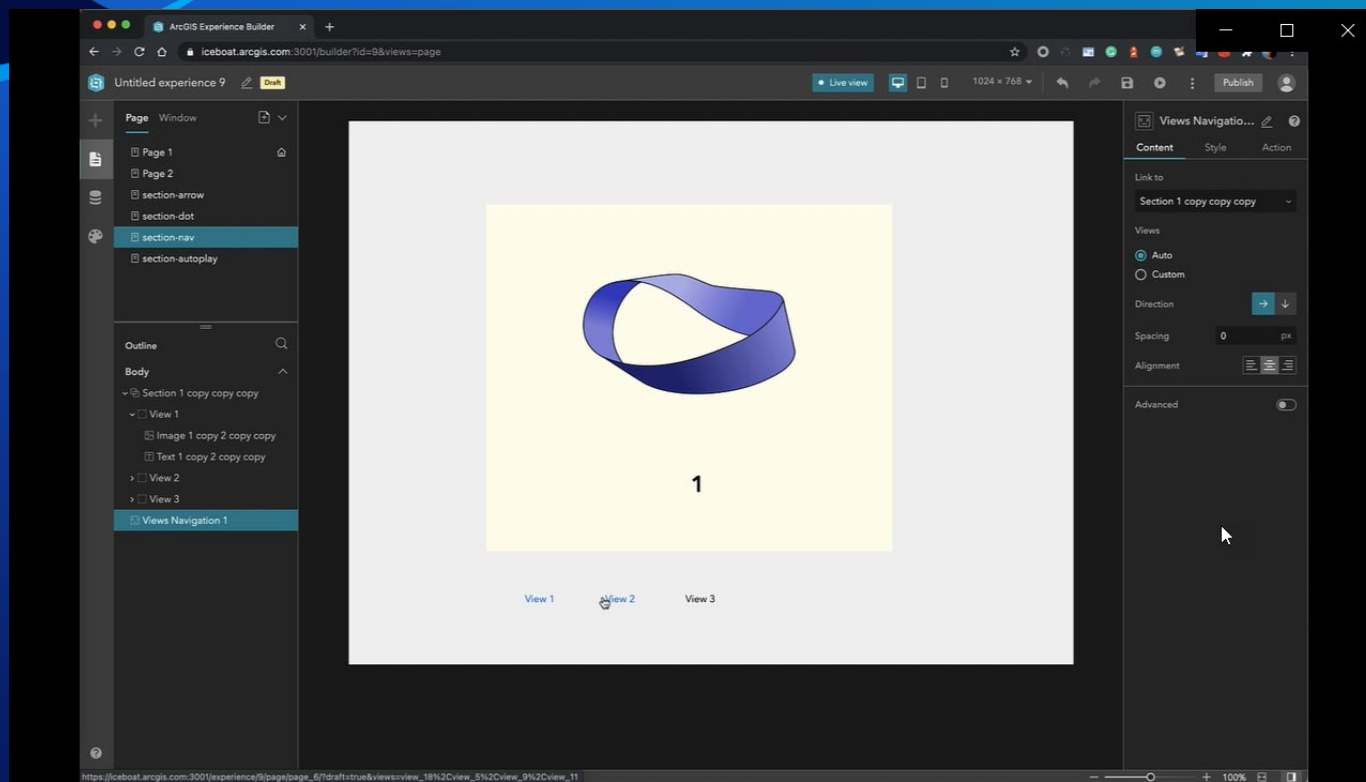
Jian Wang

Layout – Compound

Section

- multiple views
- show one view at a time
- navigate with Views Navigation
- each view can include a combination of any widgets
- random arrangement inside view
- section is like a stack of fixed panels





Demo Section

Jian Wang

Layout – Compound

Screen Group

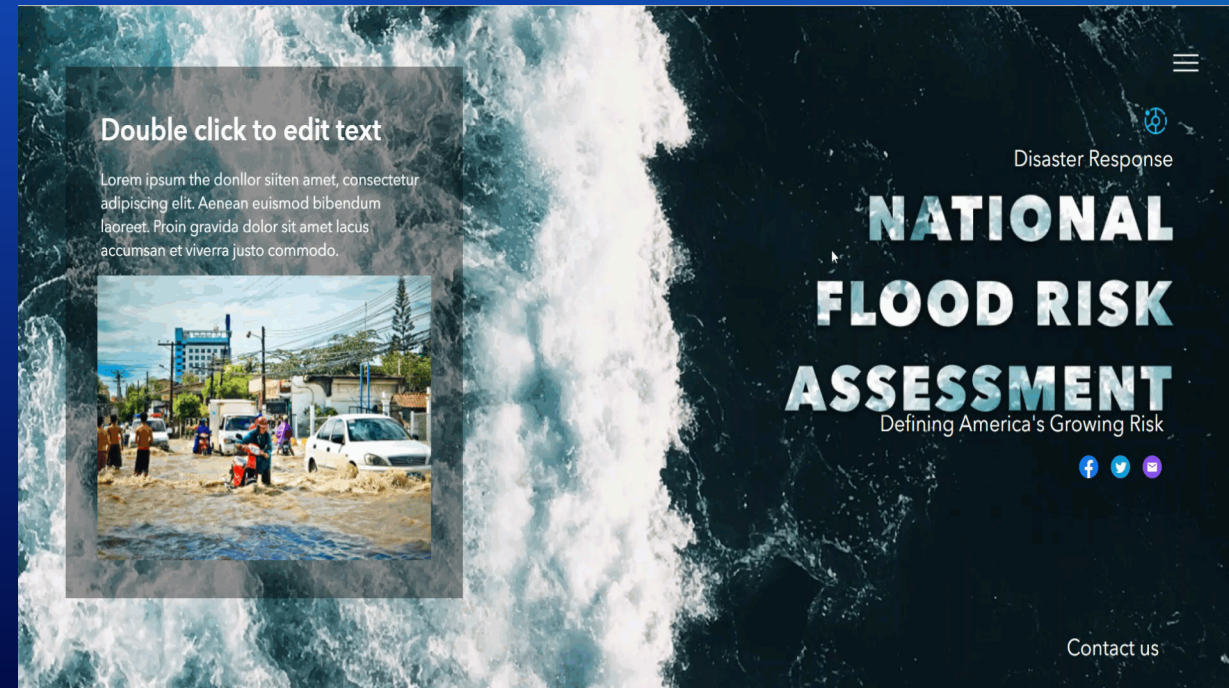
- multiple screens
- scrollable within the screen group
- each screen has a main stage
- each screen can also have a scrolling panel
- available in scrolling page only

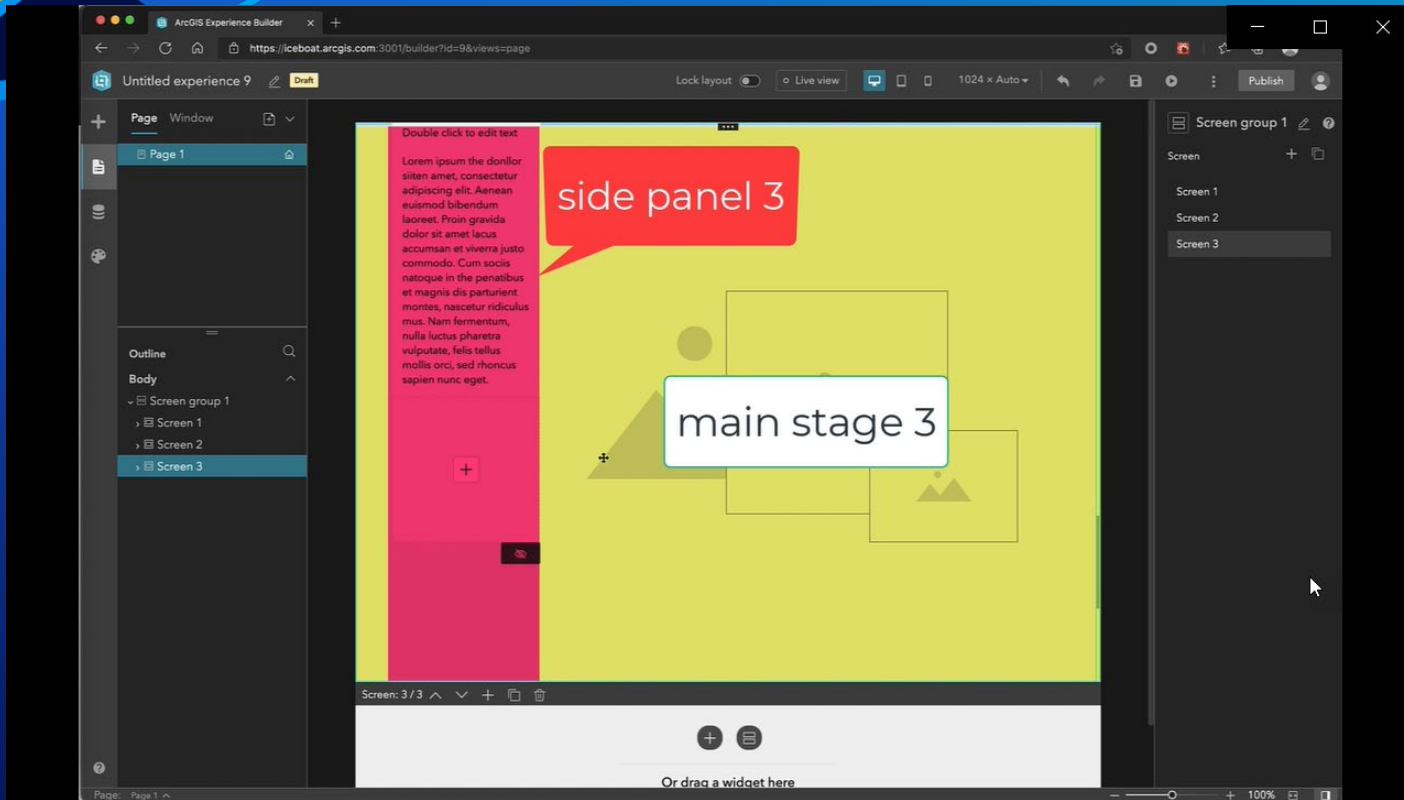


Layout – Compound

Screen Group

- main stage remains in place until one full screen scrolls away
- scrolling panel is extendable
- the scrolling height of a single screen based on the panel's content





Demo

Screen Group

Jian Wang

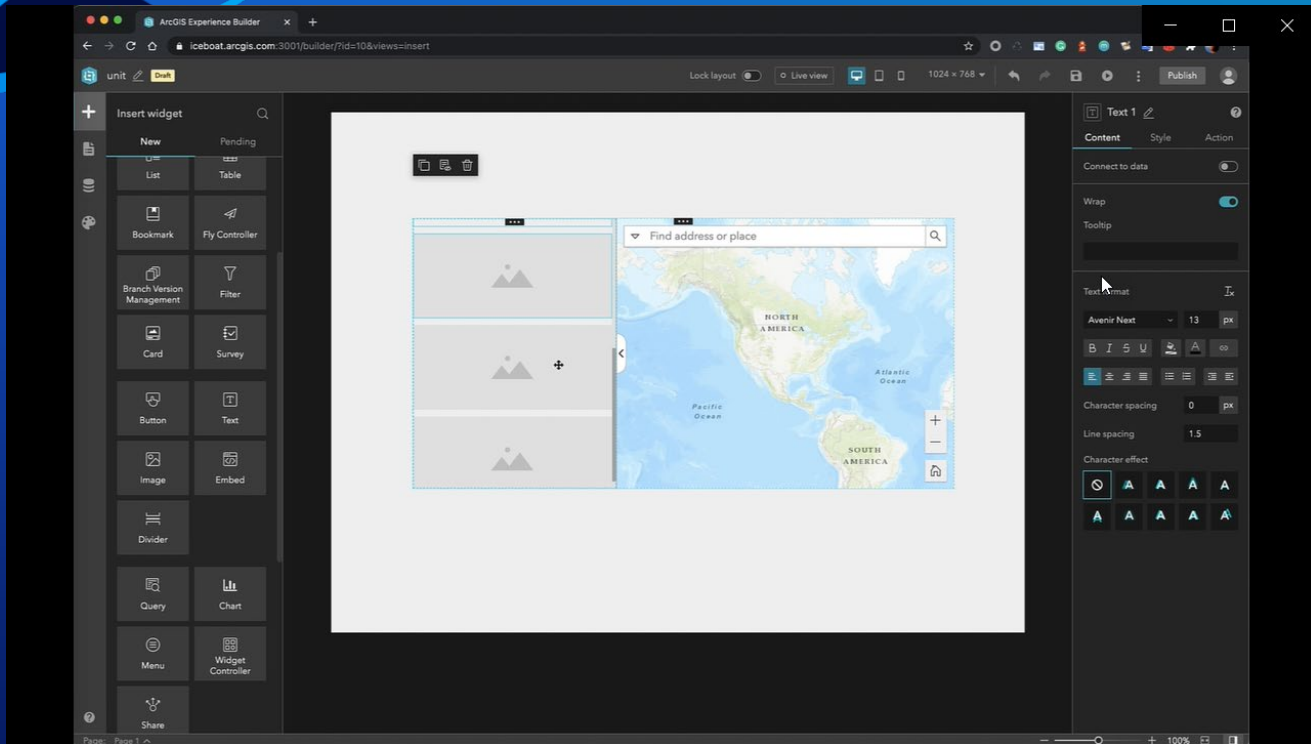
The background features a complex, abstract composition of overlapping shapes and colors. On the left, there's a stylized globe with a grid pattern. Below it, a hand is depicted in a vibrant blue and yellow, appearing to hold or interact with various elements. The bottom half of the image is dominated by thick, flowing lines in red, yellow, and blue, creating a sense of dynamic movement. The overall aesthetic is modern and digital, with a strong emphasis on geometric forms and a rich color palette.

Layout

Composite

Layout – Composite

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



Demo

Composite layout

Jian Wang

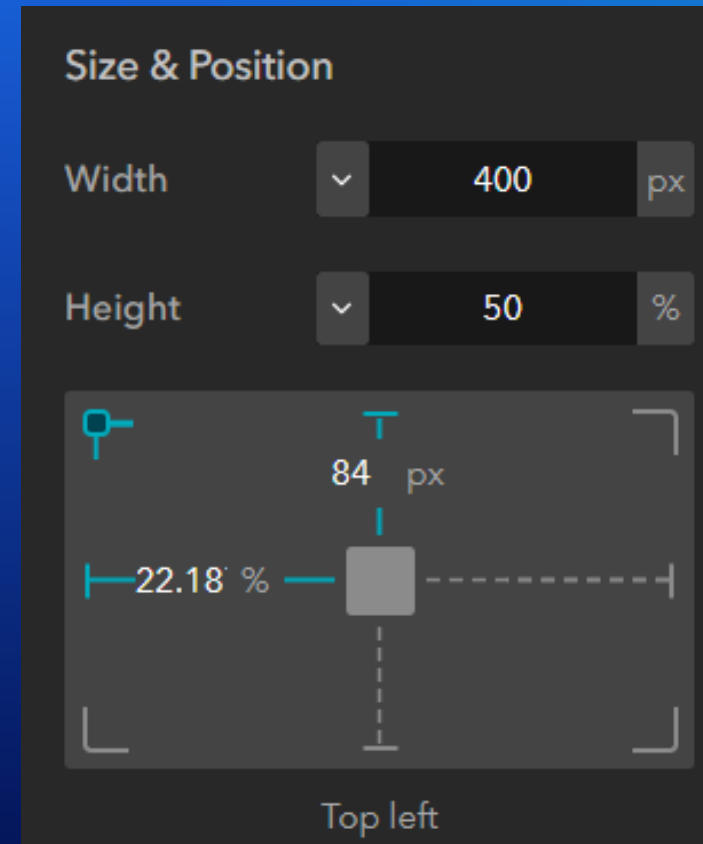


Size & Position

Alignment

Size & Position – Alignment

- Alignment with the parent container
- Widget's position determined by the reference edges and the offset





Size & Position

Unit

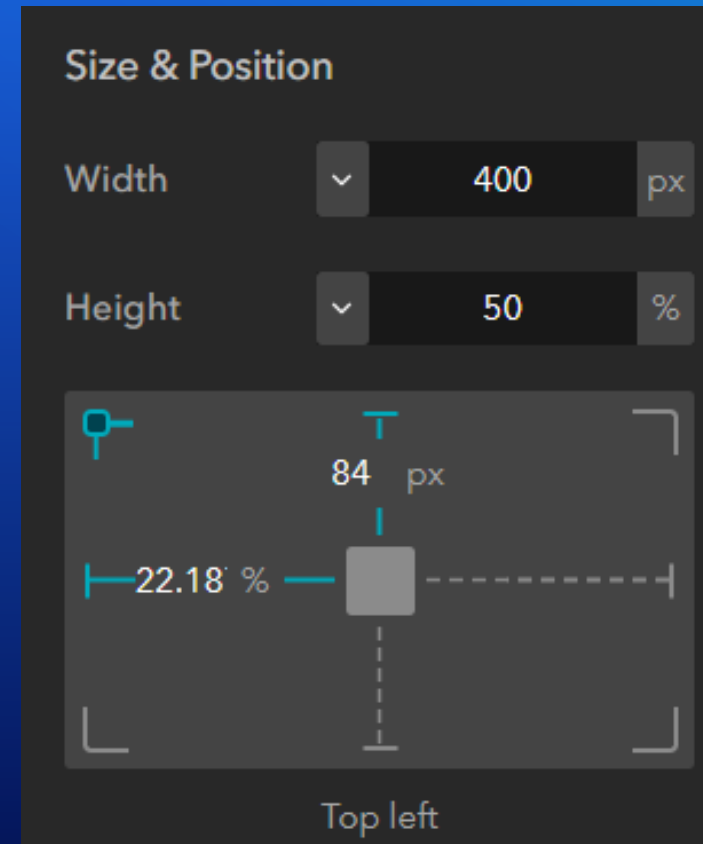
Size & Position - Unit

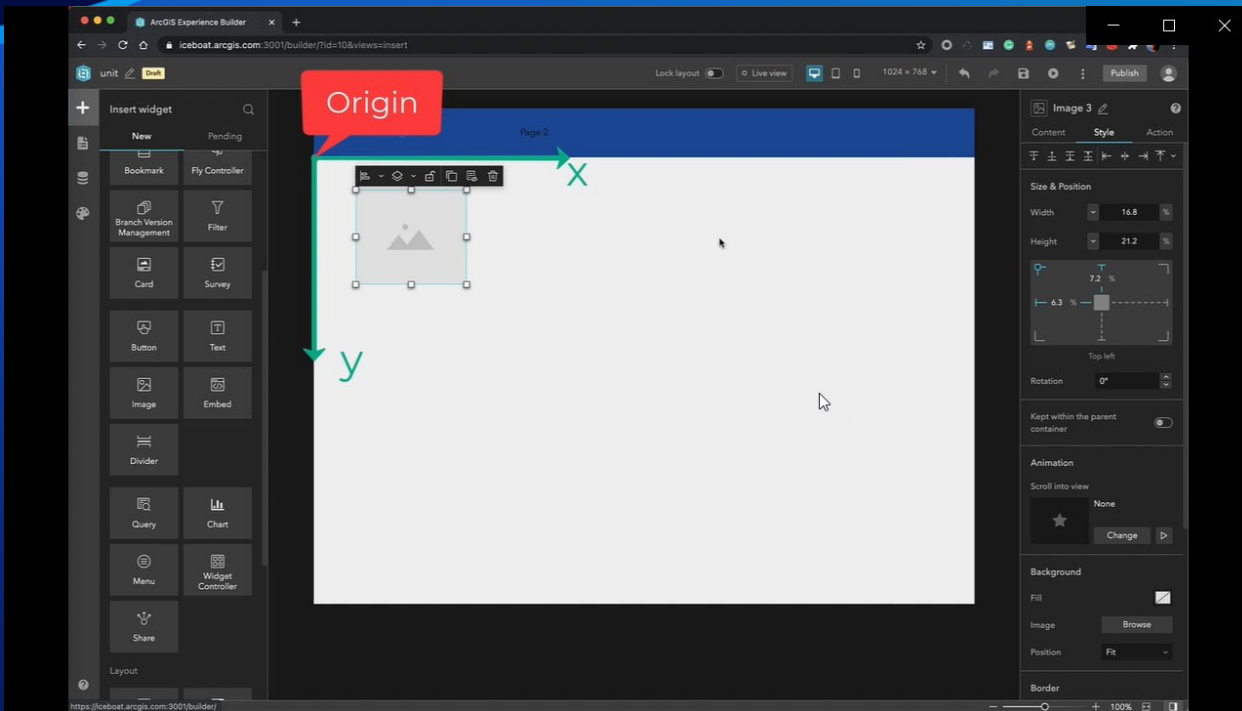
■ Pixel

- Absolute
- Not responsive

■ Percentage

- Relative
- Responsive





Demo

Size & Position - Unit

Jian Wang

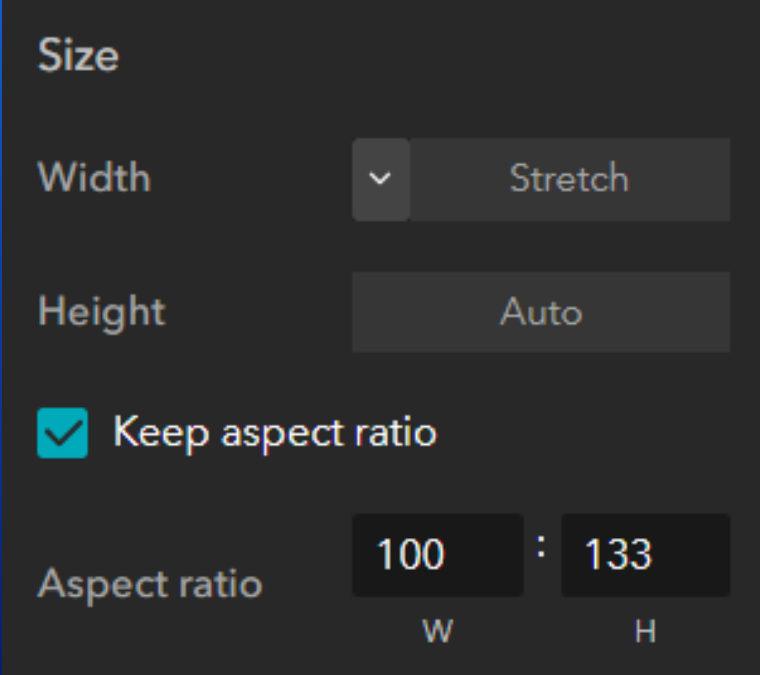


Size & Position

Width/ Height modes

Size & Position – Width/ height modes

- 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



The image shows a dark-themed configuration panel for 'Size'. It includes a dropdown menu for 'Width' set to 'Stretch', a button for 'Height' set to 'Auto', a checked checkbox for 'Keep aspect ratio', and an 'Aspect ratio' section with input fields for '100' (labeled 'W') and '133' (labeled 'H').

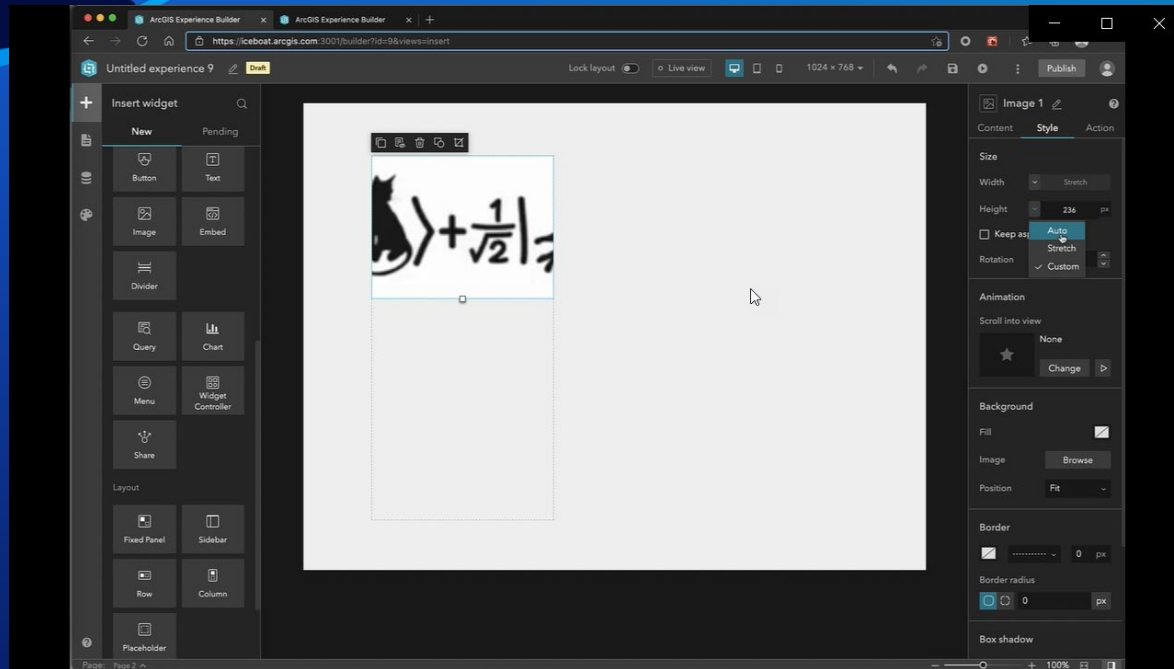
Size

Width ▼ Stretch

Height Auto

Keep aspect ratio

Aspect ratio :
W H



Demo

Size & Position – Width/ Height Modes

Jian Wang

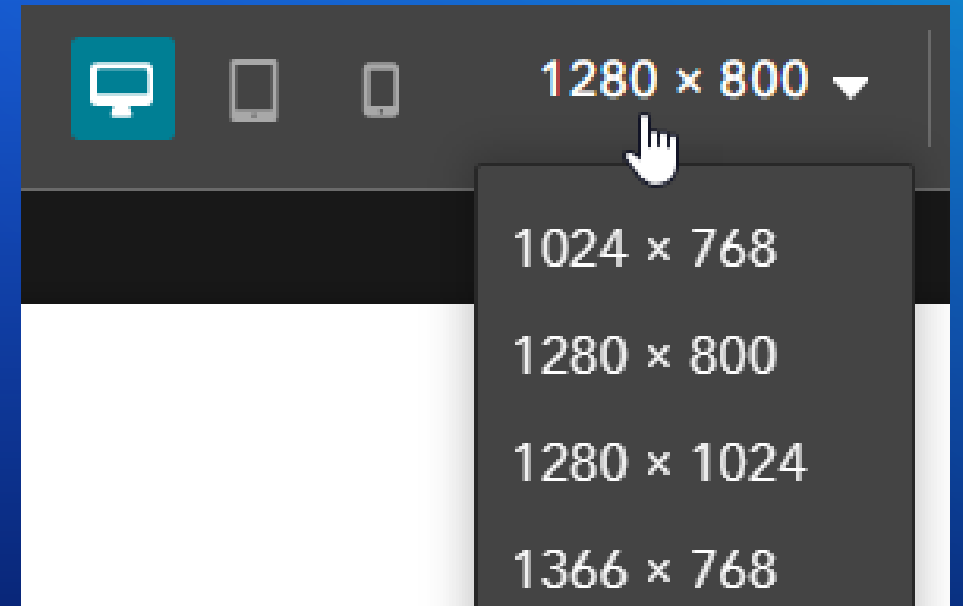
The background features a vibrant, abstract digital graphic. It consists of various geometric and organic shapes in shades of blue, red, and yellow. There are patterns resembling a hexagonal grid, a globe, and flowing lines that suggest a sense of motion and connectivity. The overall aesthetic is modern and tech-oriented.

Device Response

Responsive design to different screen sizes

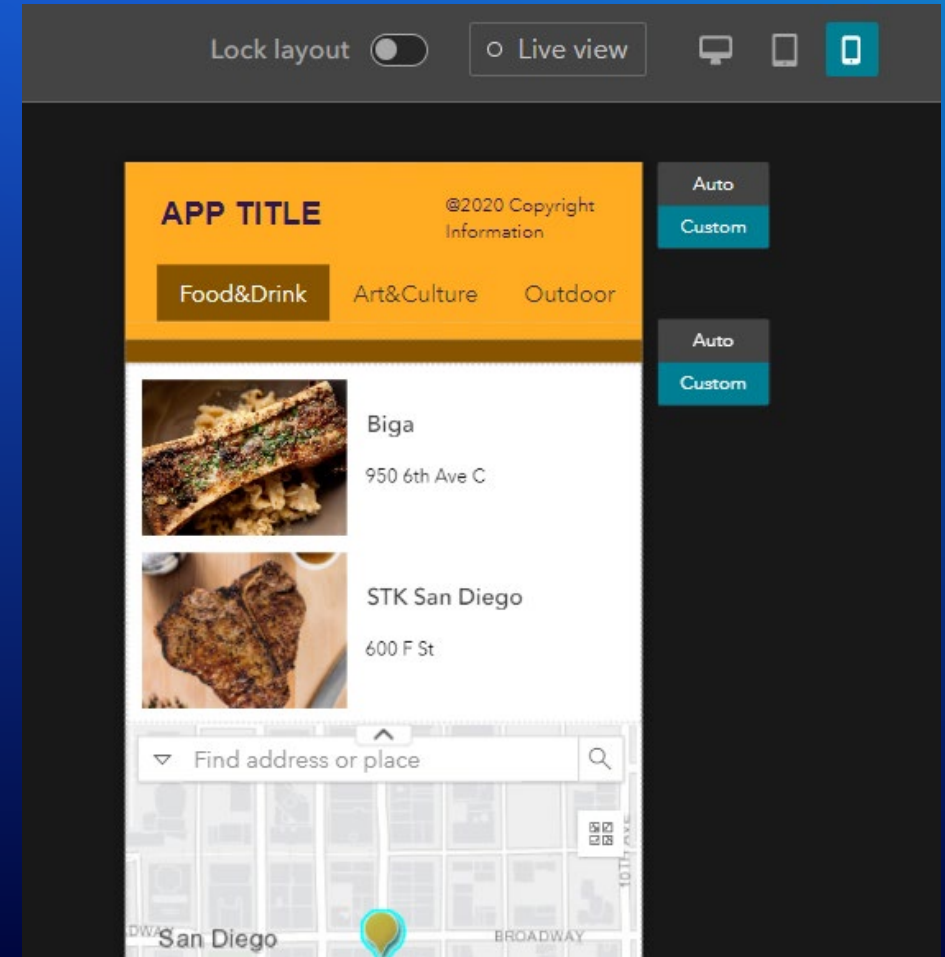
Device Response – Screen size

- Three screen modes
 - Large
 - Medium
 - Small
- Common screen sizes
 - provides common sizes for each type



Device Response – Adjust modes

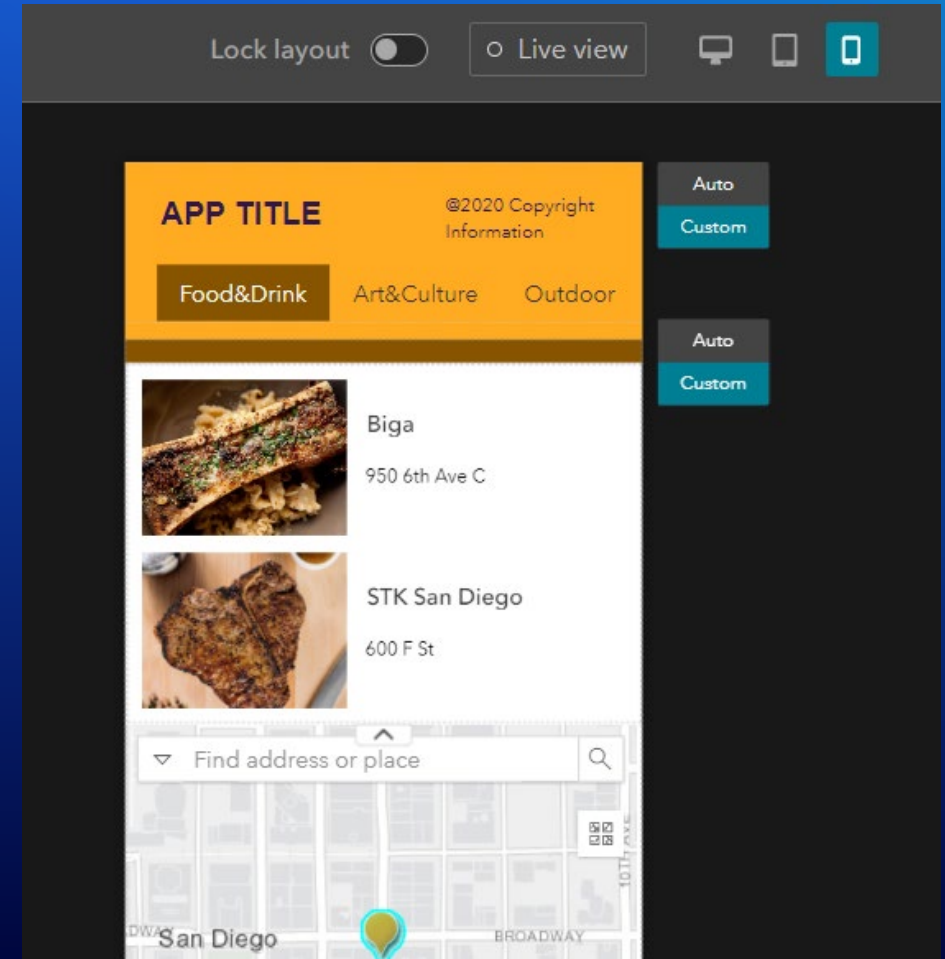
- Auto
 - transform layout automatically
 - widgets in fixed panel are adjusted by scale (relative size & position)
 - row will be transformed into column

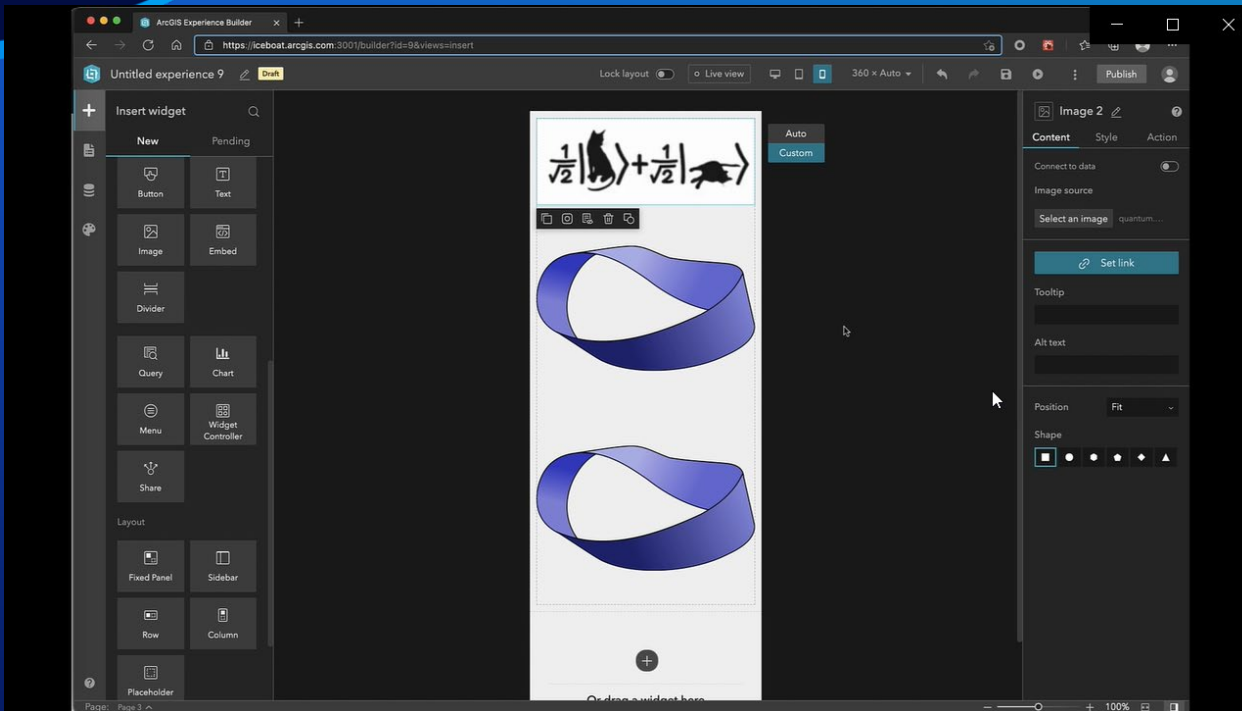


Device Response – Adjust modes

■ Custom

- arrange widgets manually
- adjust widget's size and position to fit current screen size
- ExB app remembers the customization in different screen size (responsive app)





Demo

Device Response

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Device Response – More

Another session:

ArcGIS Experience Builder: Mobile optimization

Resources

Experience Builder Documentation

- Manage page

<https://doc.arcgis.com/en/experience-builder/build-apps/add-a-page.htm>

- Layout widgets

<https://doc.arcgis.com/en/experience-builder/configure-widgets/column-widget.htm>

- Screen group

<https://doc.arcgis.com/en/experience-builder/build-apps/add-screen-groups.htm>

- Size & Position

<https://doc.arcgis.com/en/experience-builder/configure-widgets/style-settings.htm>

- Device Response

<https://doc.arcgis.com/en/experience-builder/build-apps/design-for-mobile-devices.htm>



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