

### ArcGIS Experience Builder: Mobile optimization

Wei Ying



### **Topics:**

- 1. What Is Responsive Web Design
- 2. How does ExB support responsive design
- 3. Demo
- 4. 7 Tips of responsive design in ExB

# Responsive Web Design

### Responsive web design

- Make web pages render well on a variety of devices and window or screen
- Web app/ web pages can be accessed from multiple devices: desktop, tablet, mobile
- There are a verity of screen sizes



# Responsive deign in ExB

### Responsive deign in ExB - Screen sizes

- ExB provides three screen modes:
  - Large
  - Medium
  - Small
- Provides most common screen sizes



1024 × 768

1280 × 800

1280 × 1024

1366 × 768

1440 × 900

1536 × 864

1600 × 900

1920 × 1080

601 × 962

600 × 1024

768 × 1024

800 × 1280 834 × 1112

414 × 736

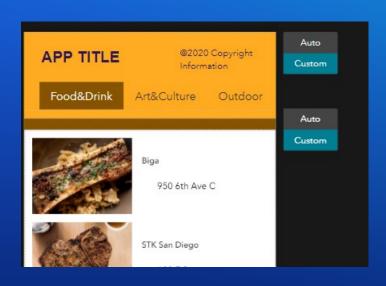
360 × 640

360 × 720

360 × 740

375 × 667

- ExB provides two responsive modes
  - Auto
  - Custom



### Auto:

- Transform layout automatically in different screen sizes
- Fixed layout:
  - Relative size and position transformed by screen scale
- Structural layout:
  - Row transformed into column (horizontal to veridical)
- Compound layout:
  - Screen group (side-by-side docks becomes up-and-down)

### **Custom:**

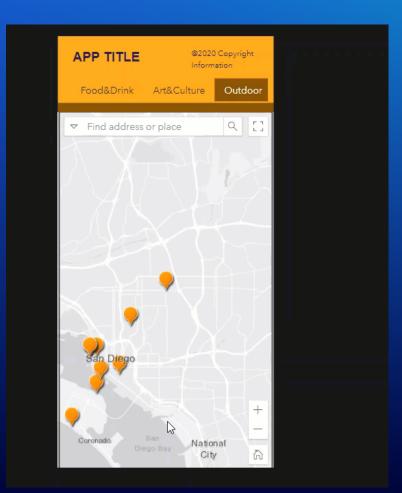
- Allow to arrange widgets manually
- Adjust widget's size and position to fit the screen size
- Allow to remove specific widget in smaller screen size ( not delete! )
- Allow to add additional widget in smaller screen size
- ExB app remembers the customization in different screen size (responsive app)

### **Attentions** in custom mode:

- 1. Widget shared in different screen mode, the content/ configuration shared
- 2. Do not change content/ configuration that are shared, e.g. adjust text sizes
- 3. Only size and position can be customized in different device modes
- 4. Do not delete a widget directly, but move it to Pending List
- 5. Pending list save the widgets that are not synced up in different screen modes
- 6. Once custom layout enabled, any newly added widget in one device mode, will not be auto synced to others
- 7. You can sync up other device mode manually by inserting widget from Pending list

### Responsive deign in ExB – Other support

- All templates provided by ExB have already customized for responsiveness
  - App/ page template
  - Block template
  - Screen group template
- ExB deals with some behavior responsive for end users
  - Pop up in small device
  - Map tools responsive





### Demo Mobile optimization Wei Ying

## 7 Tips for Responsive Design in ExB

### 7 Tips for responsive design in ExB

- 1. Make the best use of structural layout widgets to organize content
  - Row, Column, Sidebar and etc.
- 2. If fixed layout is used, pay attention to size and position (unit)
  - pay attention to the alignment and offset
- Design the app content first and customize layout finally
- 4. Add new/ duplicate specific widget and change the content format
  - e.g. smaller text size in mobile device; use icon menu in small screen
- 5. Remove unbefitting or unnecessary widgets to pending list
- 6. Preview all available screen sizes
- 7. Use ExB provided templates for convenience

### Recommend

### Another session:

ArcGIS Experience Builder: Designing apps with Style and Layout

### **Experience Builder Documentation**

- Layout widgets <a href="https://doc.arcgis.com/en/experience-builder/configure-widgets/column-widget.htm">https://doc.arcgis.com/en/experience-builder/configure-widgets/column-widget.htm</a>
- Size & Position https://doc.arcgis.com/en/experience-builder/configure-widgets/style-settings.htm
- Device Response <a href="https://doc.arcgis.com/en/experience-builder/build-apps/design-for-mobile-devices.htm">https://doc.arcgis.com/en/experience-builder/build-apps/design-for-mobile-devices.htm</a>



