

Adobe Experience Manager 6 :

Responsive Websites &
Grid-Based Layouts

Agenda



Responsive Websites & Grid-Based Layouts:

1. Overview
2. Edit Responsive Layouts
3. Setup Responsive Editing
4. Develop for the Grid



Overview





Adaptive vs Responsive

Adaptive

The server response will change to adapt to a defined set of screen size.

- Server-side device detection through a database of user-agents
- Consequence: Different URLs for different devices

Responsive

The design will fluidly change and respond to fit any screen size.

- Client-side feature detection through media queries
- Consequence: Same content delivered to all visitors

Making Content Responsive



Traditional workflow

- A designer mocks the different breakpoints
- A developer implements the mocks for a specific template
- The author picks that template and fills the content

Responsive layout editing

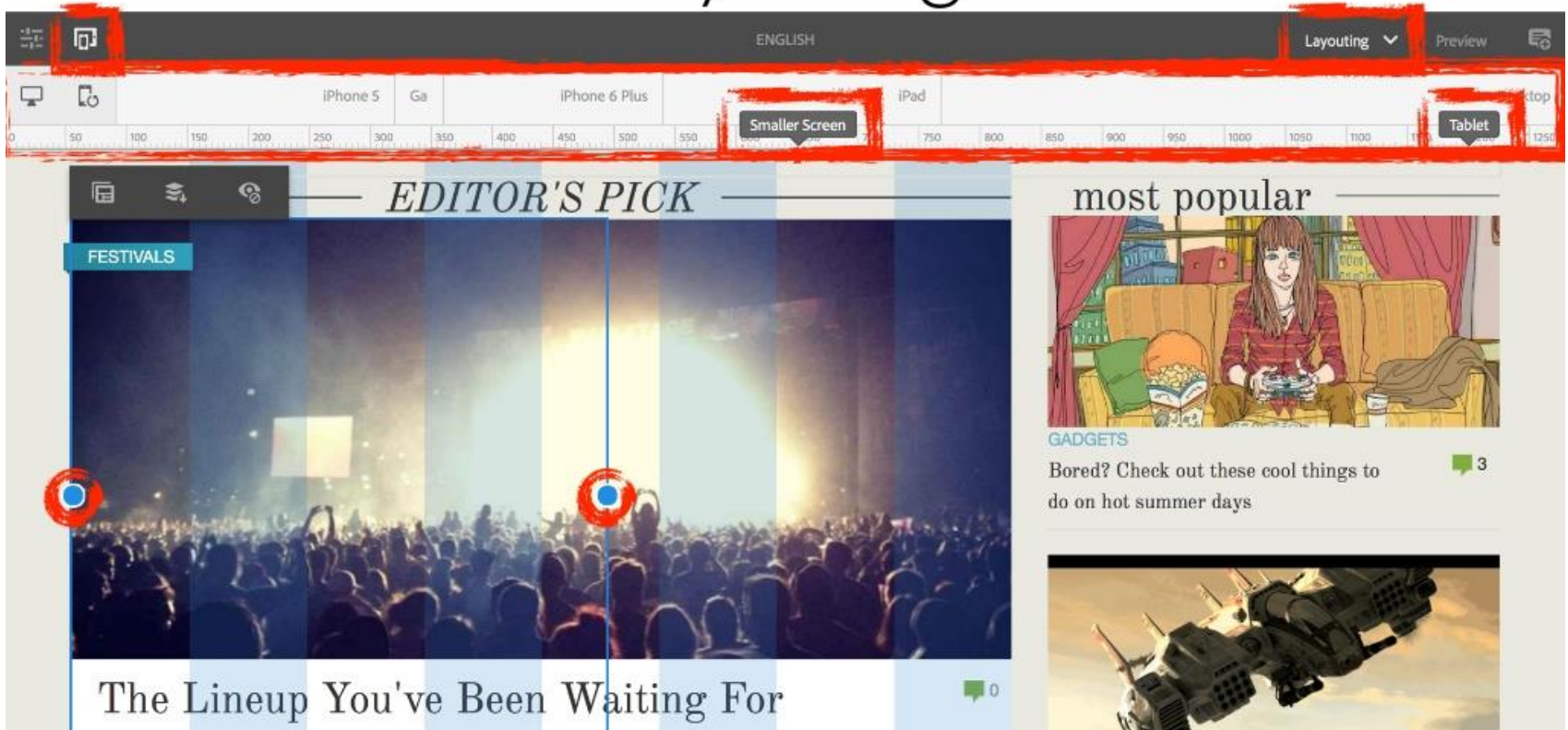
- The author fills the content
- The author can adapt the layout



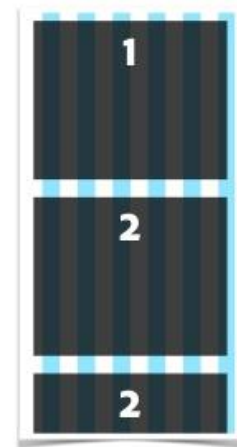
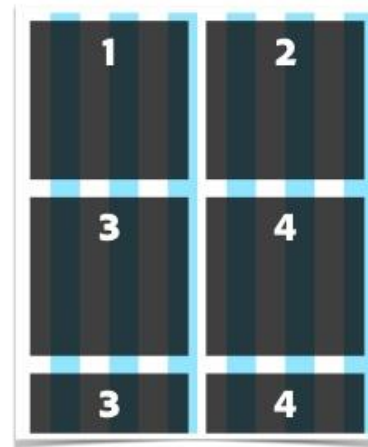
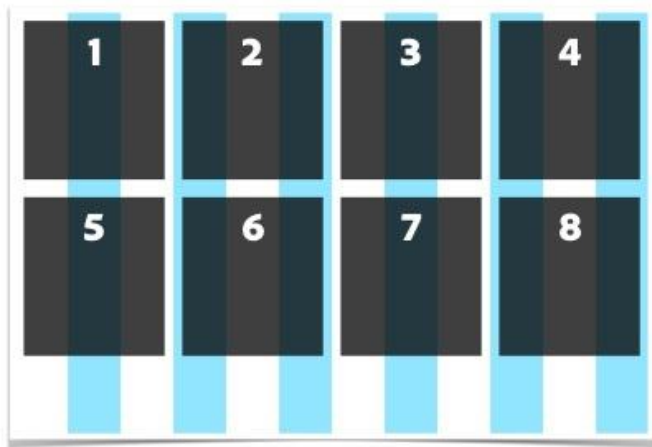
Edit Responsive Layouts



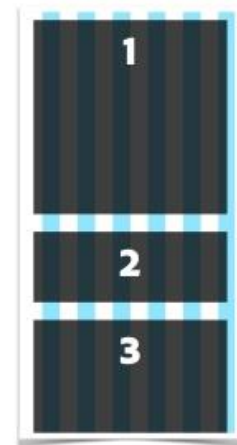
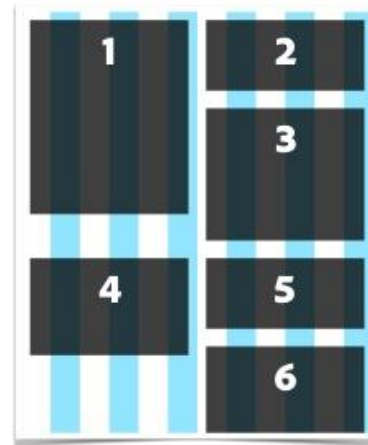
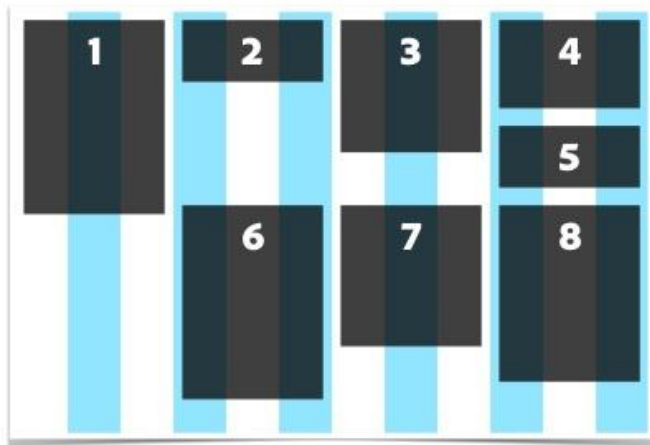
Layouting



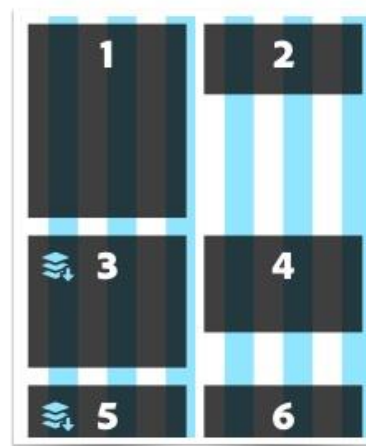
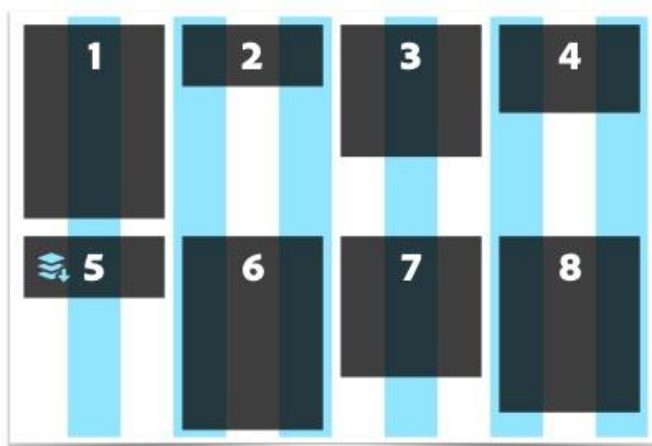
Floating



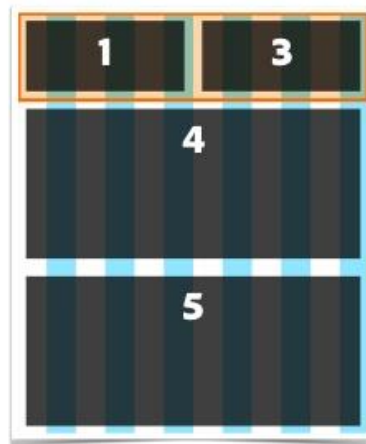
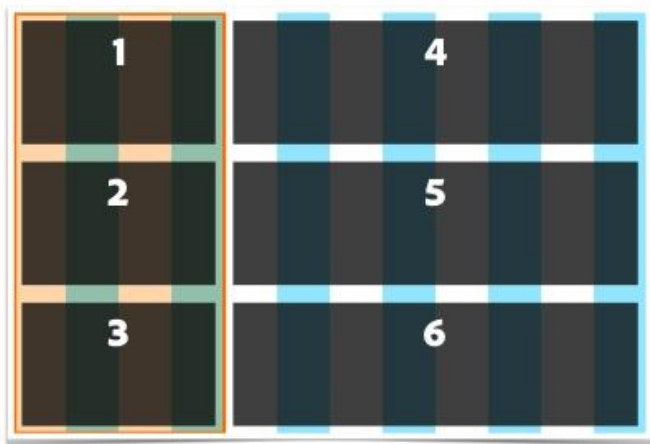
Floating



Breaking



Hiding



Setup Responsive Editing





0. Enable the Responsive Emulator

Register page components for simulation

- List the `slings:resourceType` of your pages in an OSGi config for `com.day.cq.wcm.mobile.core.impl.MobileEmulatorProvider`

Specify the device groups

- On `jcr:content` node of the site root, add the following property:
`jcr:content[nt:unstructured]`
`@cq:deviceGroups=["/etc/mobile/groups/responsive"]`



1. Enable the Layouting Mode

Specify the breakpoints

→ On jcr:content node of the site root, add following node structure:

```
jcr:content[nt:unstructured]
  cq:responsive[nt:unstructured]
    breakpoints[nt:unstructured]
      phone[nt:unstructured]
        @title="Smaller Screen"
        @width=650
      tablet[nt:unstructured]
        @title="Tablet"
        @width=1200
```



2. Enable the Responsive Grid

Use the responsive paragraph system

→ Replace the parsys with the responsive one:

```
@resourceType="wcm/foundation/components/responsivegrid"
```

Include the responsive stylesheet

→ Copy the following file into your client library:

```
/etc/designs/geometrixx-media/clientlibs/css/grid.less
```

→ Adapt the breakpoints and the number of columns to your needs

Develop for the Grid





A Project's Grid Configuration

```
@import (once) "/etc/clientlibs/wcm/foundation/grid/grid_base.less";
```

```
/* maximum amount of grid cells to be provided */
```

```
@max_col: 12;
```

```
.aem-Grid {  
  .generate-grid(default, @max_col);  
}
```

```
/* smaller screen (phone) breakpoint */
```

```
@media (max-width: 650px) {  
  .aem-Grid {  
    .generate-grid(phone, @max_col);  
  }  
}
```

```
/* tablet breakpoint */
```

```
@media (min-width: 651px) and (max-width: 1200px) {  
  .aem-Grid {  
    .generate-grid(tablet, @max_col);  
  }  
}
```



Persistence in JCR Content

The component size is saved on the resource node

```
jcr:content[nt:unstructured]
  parsys[nt:unstructured]
    image[cq:Component]
      @sling:resourceType="wcm/foundation/components/image"
      ...
    cq:responsive[nt:unstructured]
      default[nt:unstructured]
        @width=4
      phone[nt:unstructured]
        @width=12
```



The Grid Markup

```
<div class="aem-Grid aem-Grid--12">  
  <div class="aem-GridColumn aem-GridColumn--default--2">  
    Col 1  
  </div>  
  <div class="aem-GridColumn aem-GridColumn--default--8">  
    Col 2  
  </div>  
  <div class="aem-GridColumn aem-GridColumn--default--2">  
    Col 3  
  </div>  
</div>
```

The Grid Markup





Floating Rendering

```
<div class="aem-Grid aem-Grid--12">  
  <div class="aem-GridColumn aem-GridColumn--default--2">  
    Col 1  
  </div>  
  <div class="aem-GridColumn aem-GridColumn--default--8">  
    Col 2  
  </div>  
  <div class="aem-GridColumn aem-GridColumn--default--2">  
    Col 3  
  </div>  
  <div class="aem-GridColumn aem-GridColumn--default--6">  
    Col 4  
  </div>  
</div>
```

Floating Rendering





Leverage Breakpoints

```
/*
  grid.less
  smaller screen breakpoint
*/
@media (max-width: 650px) {
  .aem-Grid {
    .generate-grid(phone,
                    @max_col);
  }
}
```

```
<div class="aem-Grid aem-Grid--12">
  <div class="aem-GridColumn
    aem-GridColumn--default--2
    aem-GridColumn--phone--12">
    Col 1
  </div>
  <div class="aem-GridColumn
    aem-GridColumn--default--8
    aem-GridColumn--phone--6">
    Col 2
  </div>
  <div class="aem-GridColumn
    aem-GridColumn--default--2
    aem-GridColumn--phone--6">
    Col 3
  </div>
</div>
```

Leverage Breakpoints





Custom Behaviour

→ hide item

```
<div class="aem-Grid aem-Grid--12">  
  <div class="aem-GridColumn  
    aem-GridColumn-default--4  
    aem-GridColumn-phone--hide">
```

Col 1

```
</div>
```

```
<div class="aem-GridColumn  
  aem-GridColumn-default--4">
```

Col 2

```
</div>
```

```
<div class="aem-GridColumn  
  aem-GridColumn-default--4  
  aem-GridColumn-phone--newline">
```

→ force new line

Col 3

```
</div>
```

```
</div>
```

Custom Behaviour

