Design size research & conclusion

Conclusion

* **Desktop primary**
* Design size
* 1,280 pixels
* Responsive Design
* Layouts should render correctly at higher resolutions. A UI may reflow into available space.
* Lower resolutions (below 1280) layouts should be as useful as possible but can include some horizontal scrolling if unavoidable.
* Preferred sizes
* Content size: 960px
* Left menu size: 250px
* Full page card: 880px
* Consideration - If the product manager requests a wider prototype
  + Max 1,440 pixels
  + UX **must** inform the PM that 1,440px width could result in:
    - Display issues for our clients
    - Additional horizontal scrolling
    - Display issues during a demo of our software
      * Especially when using a Surface tablet and projector
* **Responsive UI**
* Higher resolutions
* Vertical layouts can become horizontal
* A UI may reflow into available space.
  + iPad, tablet and lower resolutions
* Horizontal layouts become vertical to avoid horizontal scrolling
* Tabs (overflow) use vertical ellipse instead of horizontal scrolling
* Left menu becomes a hamburger icon
* A UI element may transform from one format to another.
* Tables
* Launch program with default columns. Default columns shouldn’t require horizontal scrolling.
* Max width for iPad – 960 Pixels
* **iPad primary**

Landscape

* Design size: 1024pixels Landscape
* Max table width – 960px
* Standard sizes
* Content: 960px
* Left menu: hamburger icon
* Full page card: 880px

Portrait

* Design size: 768px - Portrait
* Max table width – 700px

Research

Munis Release notes

|  |  |  |
| --- | --- | --- |
|  | **Minimum\*** | **Recommended** |
| Operating System | 32-bit Windows 7 | 64-bit Windows 8.1 or Windows 10 |
| Processor | Intel Core i3 1.8 Ghz | Intel Core i3 2.5+ Ghz *(or better)* |
| Memory | 2 GB RAM | 4+ GB |
| Disk Space | 50 MB | 200 MB |
| Screen Resolution | 1280 x 800 | 1920 x 1080 |

* **Approximate min/max screen sizes in pixels**
* Confluence: 1,350 – horizontal scroll appears
* GWC: 1,250
* Google search: 1,120
* Google sheets: 1,240 – horizontal scroll appears
* Page content: 1,216
* Google Keep: 380 – no horizontal scroll bar
* Card width: 600
* TEG Portal: 350 – horizontal scroll appears but is not needed to view the page
* Content fits at 960
* Text begins to wrap: 1,050 no horizontal scroll
* Hub 1,440 – flexible layout but displays the best at 1,440
* PowerPoint’s default slide size used to design Hub layouts: 1,280 (13.33 inches)
* Chrome settings: 550 – horizontal scrollbar appears
* Google news: 530 – horizontal scrollbar displays
* First break point: 1,020
* Demo’s recommended resolution: 1,600 x 900 affords them an extra web part in dashboard
* Current canvas / artboard sizes in pixels
* Kaila – 1,280
* Esther – 1,280
* Karen – 1,920
* Nick -  1,366
* Joni – 1,280
* Emily – 1,550
* Jay – 1,440
* Kathy – 1,366
* Ben – 1,100
* David – 1,660
* **Screen Res Statistics**
* W3Schools Browser Statistics

<https://www.w3schools.com/browsers/browsers_display.asp>

* RapidTables

http://www.rapidtables.com/web/dev/screen-resolution-statistics.htm

* **Material Responsive UI**
  + <https://material.io/guidelines/layout/responsive-ui.html>

Summary

|  |  |  |
| --- | --- | --- |
| **Site** | **Min Width** |  |
| Confluence | 1,350 |  |
| GWC | 1,250 |  |
| Google search | 1,120 |  |
| Google sheets | 1,240 |  |
| Google Keep Card width: 600 | 380 |  |
| TEG Portal | 350 |  |
| Demo’s recommended | 1,600x900 |  |
| Hub | 1,440 |  |
| PowerPoint’s  default slide size used to design Tyler Hub | 1,280 |  |
| Chrome settings | 550 |  |
| Current UX canvas sizes used to design prototypes  Kaila – 1,280  Esther – 1,280  Karen – 1,920  Nick -  1,366 Adobe Photoshop web most common  Joni – 1,280  Emily – 1,550  Jay – 1,440  Kathy – 1,366  Ben – 1,100  David- 1,660 – ran into issues |  |  |

* Average min screen size, sampling of 10 resources: 1,056
* Average Munis UX design size: 1,424
* Munis release notes: min resolution 1280x800
* Most common resolution 2017
  + W3Schools Browser Statistics: 1,366 x 768
  + Rapid Tables Browser Statistics: combination of 1280x1024, 1280x800, 1280x720
* Two of Material’s breakpoints: 1,280 & 1,440

Future Research

* Standardize on Responsive UI patterns

https://material.io/guidelines/layout/responsive-ui.html#responsive-ui-patterns

Material’s break points: 1,280 or 1,440