

Responsive Form Design



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OVERVIEW



- **Responsive Form Design Discovery**
- **PL/B Language Support**
- **Examples**
 - **AppMaster**
 - **JqmSamp**
 - **TestDesign**
 - **UserTest**

Responsive Form Design Discovery



- **Responsive Form Design Discovery**

- **Responsive Web Design (RWD)**

“An approach to web design that makes web pages render well on a variety of devices and window or screen sizes.”

- **Fluid grid concept uses relative units like percentages**
 - **Flexible images sized using relative units inside container**
 - **Media queries allow different CSS styles by device display characteristics**
 - **Responsive layouts automatically adjust/adapt to device screen size**

- **https://en.wikipedia.org/wiki/Responsive_web_design**

Responsive Form Design

Discovery



- **PL/B Form Design**

- **GUI Objects are positioned relative to WINDOW/PANEL parent origin.**
- **Object Properties/Methods Used to control Positions and Sizes**
 - **Height, Width, Left, and Width**
 - **Dock and Anchor**
 - **WINDOW 'Scale' Method**
- **Forms designed to Windows OS controls**

Responsive Form Design

Discovery



- **PL/B Form Design for PWS**
- **PLF & PWF forms are Rendered into Web Pages**
- **Positions/Sizes are ‘absolute’**
 - https://www.w3schools.com/css/css_positioning.asp
- **Units in ‘px’ pixels where 1px = 1/96th of 1 in**
 - https://www.w3schools.com/cssref/css_units.asp
- **CSS Classes are used for HTML objects**
- **PWF Extensions added as Properties and CLIENT methods**

Responsive Form Design Discovery



- **PL/B Form Design Rules for Responsive Forms**

- **Design Simplified PWF Forms**
- **Design to the smallest required Device ViewPort**
- **Design using Panels for Containers**
- **CSS3 Styles can be used like:**
 - **‘units’ with percentages**
 - **‘@media’ to apply different styles for different media type/devices**
 - **FlexBox** https://www.w3schools.com/css/css3_flexbox.asp
- **Use Relative Units like Percentages for HTML Objects**
 - **WEBxxxxx Properties**

PL/B Language Support



•PL/B Instructions for Responsive Form Design

•METHOD

•CLIENT.AddCss [See Manual Description](#)

•PROPERTIES

•WEBCLASS [See Manual Description](#)

•WEBHEIGHT [See Manual Description](#)

•WEBLEFT [See Manual Description](#)

•WEBPOSITION [See Manual Description](#)

•WEBTOP [See Manual Description](#)

•WEBWIDTH [See Manual Description](#)

PL/B Language Support

- **PL/B Instructions for Responsive Form Design**

- **APPMASTER Sample Program**

[Sunide AppMaster](#)

- **Uses Responsive Design Techniques**

- **Simple Form Design**

- **CSS Classes**

- **CSS FlexBox**

- **‘@media’ Device Rules**

- **PL/B Language Extensions**

- [Azure Run AppMaster No CSS](#)

- [Azure Run AppMaster](#)

PL/B Language Support

- **PL/B Instructions for Responsive Form Design**

- **jQuery Mobile Support**

[Link jQuery Mobile](#)

- “jQuery Mobile is a HTML5-based user interface system designed to make responsive web sites and apps that are accessible on all smartphone, tablet, and desktop devices”

- Use ‘.plm’ Mime

‘JqmSamp.plm’

- **RUNTIME Methods**

- JqmOptions

[Show Method Description](#)

- JqmPage

[Show Method Description](#)

- [JqmSample Demo Descriiption](#)

- [Azure Run JqmSample Demo](#)

PL/B Language Support

- **PL/B Instructions for Responsive Form Design**

- **SETMODE *PercentConvert**

[See Manual Description](#)

- **Converts HTML object positions and sizes to percentages**

- **(1) Only Convert LEFT/WIDTH to relative percent of its parent width**

- **(2) Converts LEFT, WIDTH, and TOP property values to a percentage relative to width and height of its parent.**

- **Maximized Responsive Design Concept with Minimal Effort**

- [Sunide TestDesign](#) Azure Run: [TestDesign](#) or [TestDesignPercent](#)

- [Sunide UserTest](#) Azure Run: [UserTest](#) , [UserTest%](#) , [UserTest+](#)

Responsive Form Design Examples



- Sunide: [AppMaster.pls](#)

- Run: [AppMaster](#), [AppMasterNoCss](#), or [AppMasterPercent](#)

- Sunide: [JqmSamp.pls](#)

- Run: [JqmSamp](#)

- Sunide: [TestDesign.pls](#)

- Run: [TestDesign](#) or [TestDesignPercent](#)

Questions?

