

SYNERGY 2015

SEATTLE, WA, USA



SYNERGY 2015

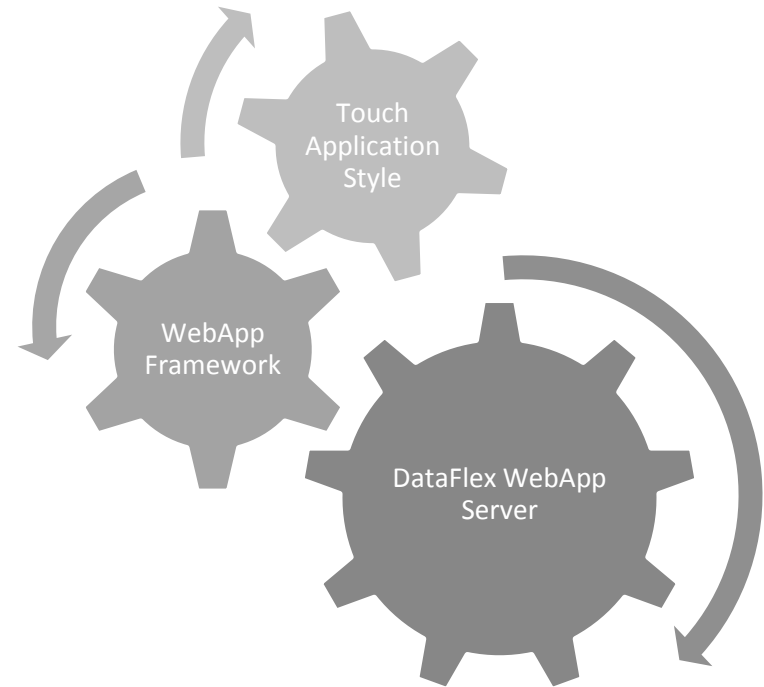
SEATTLE, WA, USA

Understanding the DataFlex Mobile/Touch Class Extensions

Presented by: Harm Wibier

Mobile Application Style

- Extension of the Web Application Framework
 - Web Objects
 - Web Properties
 - Views
 - Controls



Responsiveness

Responsiveness

- **WebSetResponsive**
 - Set web property values for different modes
 - Predefined modes
 - Applied without server communication
 - Rules are inherited by smaller devices
 - Detection based on screen width and user agent string
 - WebSet overrides rules

Set piColumnCount to 12

WebSetResponsive piColumnCount rmTabletPortrait to 8

WebSetResponsive piColumnCount rmMobile to 4

Responsive Modes

- **rmDesktop**
- **rmTablet** (1100 virtual pixels)
 - **rmTabletLandscape**
 - **rmTabletPortrait**
- **rmMobile** (580 virtual pixels)
 - **rmMobileLandscape**
 - **rmMobilePortrait**

- rmDesktop true
- rmTablet true
 - rmTabletLandscape true
 - rmTabletPortrait false
- rmMobile false
 - rmMobileLandscape false
 - rmMobilePortrait false

Set pbRender to true

WebSetResponsive pbRender rmTabletPortrait to false

- rmDesktop 12
- rmTablet 12
 - rmTabletLandscape 12
 - rmTabletPortrait 8
- rmMobile 4
 - rmMobileLandscape 4
 - rmMobilePortrait 4

Set piColumnCount to 12

WebSetResponsive piColumnCount rmTabletPortrait to 8

WebSetResponsive piColumnCount rmMobile to 4

Appearance

Df_Flat_Touch

- New theme supporting mobile features
 - Uses all the latest technologies
 - Font-Icons
 - Font-Face
 - Also usable for the desktop-style

Mobile CSS Classes

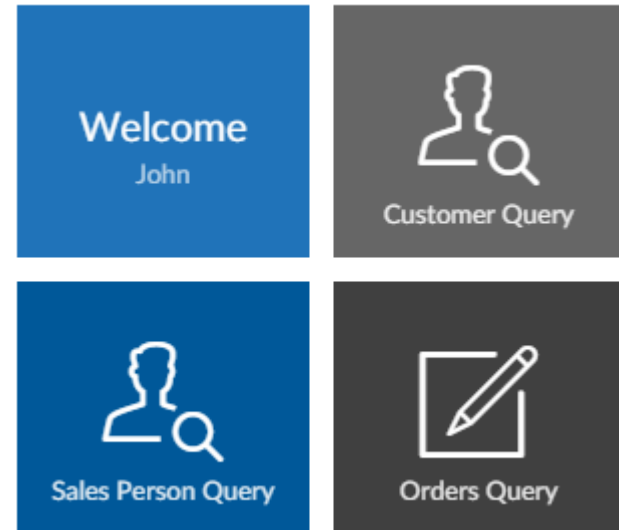
- Controls are used in a different way
- Applying CSS class changes their appearance
- Defined inside the theme
 - Right now only Df_Flat_Touch supports them
- Wizards & Templates apply these
- Help section

Object oList is a cWebList

Set psCSSClass to "MobileList"

Dashboard

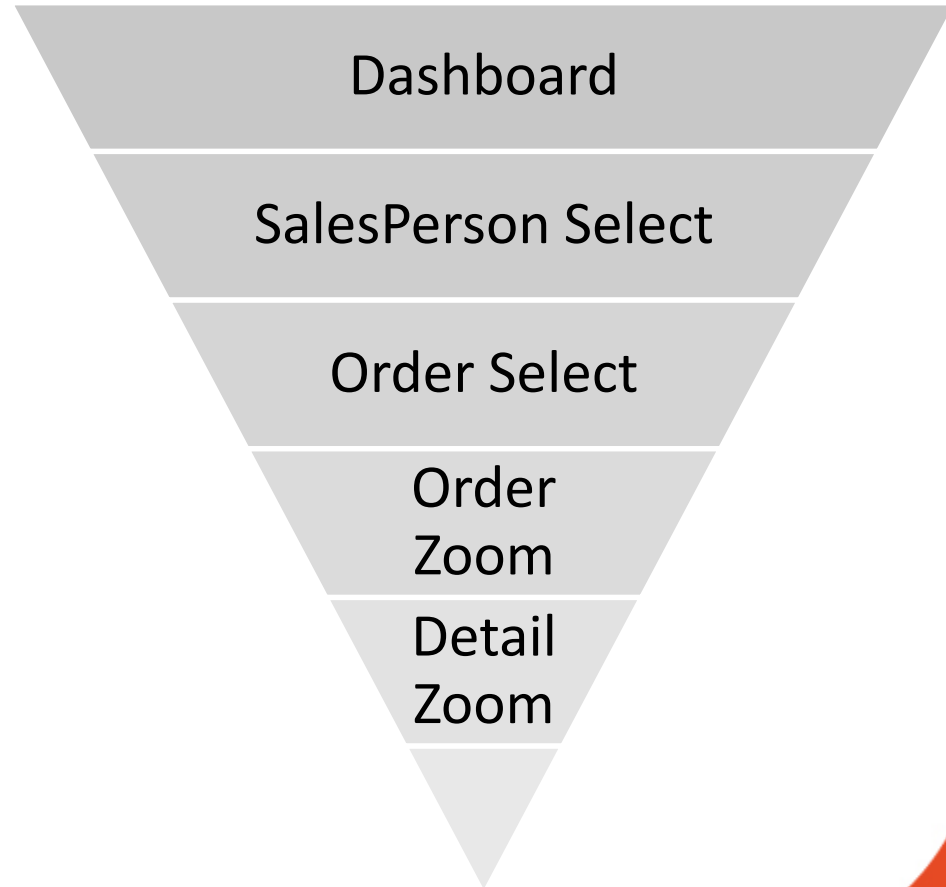
- Pretty basic implementation
 - Based on cWebHtmlBox
 - Heavy usage of CSS Classes
- Copy from at WebOrderMobile



Breadcrumb

Drill-down model

- Navigate from view to view
- Select Views
 - Select a record
 - Multi purpose
 - Drill down to zoom view
- Zoom Views
 - Edit / Display a record



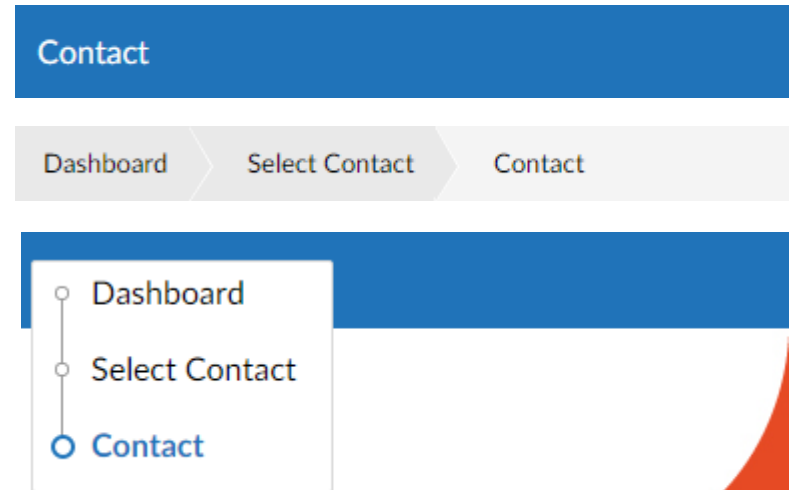
Breadcrumb

- cWebViewStack
 - Controller object maintaining the view stack data
 - Updated by the view classes

Object oViewStack is a cWebViewStack
End_Object

cWebBreadcrumb

- Control displaying the breadcrumb
- Listener of the viewstack object
- peBreadcrumbStyle determines mode
 - crumbCaption
 - crumbHorizontal
 - crumbDropDown



Breadcrumb Captions

- **SetBreadcrumbCaption**
 - Shown inside the breadcrumb bar / dropdown
- **SetHeaderCaption**
 - Shown in crumbCaption mode
 - Shown as caption of the dropdown mode
- **OnNavigateForward** would be the place to do it!
- **psCaption**
 - Default static caption

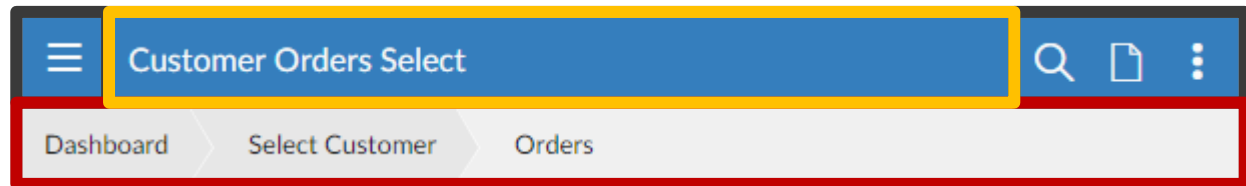
Application Structure

Object structure

- oWebApp
 - oViewStack
 - oHeaderPanel
 - Hamburger menu
 - Breadcrumb
 - Action menu
 - oView
 - DDO Structure
 - Action group

Header structure

- oHeaderPanel
 - oMenuPanel
 - oActionPanel
 - oBreadcrumbPanel
 - oCaptionPanel



Specifics

- Two breadcrumbs
 - One for mobile / caption on the tablet
 - One for tablet & desktop
- “HeaderPanel” CSS Class on oHeaderPanel

Object oHeaderPanel is a cWebPanel

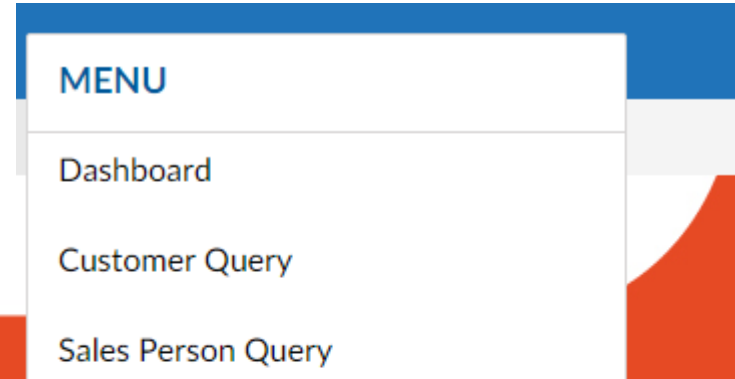
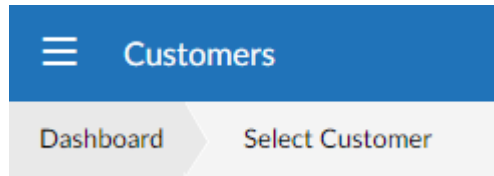
Set peRegion to prTop

Set psCSSClass to "HeaderPanel"

Menu's

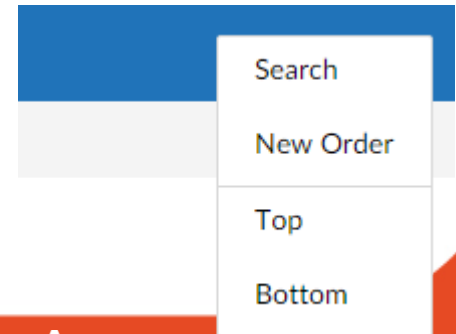
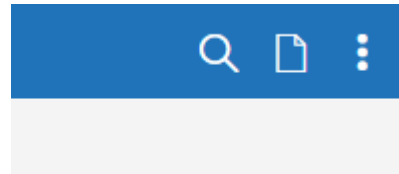
Hamburger Menu

- cWebMenuButton
 - Button that shows a floating menu
 - Menu displays as a multi level list
 - Works with regular menu items
 - cWebMenuItem objects



Action menu's

- cWebActionBar (subclass of cWebToolBar).
 - Toolbar style menu with expandable items section.
 - Available space determines number of items shown.
 - Controlled by peActionDisplay of cWebMenuItem.
- Usually combined with cWebMenuGroup



Menu groups

- cWebMenuGroup
 - Place menu items outside the menu object.
 - Use inside a view to hide menu items with the view.
 - Works with all menu classes.
 - Use psGroupName bind menu and group(s).

Touch Lists

cWebList extensions

- Momentum scrolling
 - Elastic IOS like scrolling
 - Stops at full rows
- Multiline rows
 - Increase touch area
 - Make better looking lists
- Fixed column widths

Customers		
500 Plus News Magazine		
39 Hartland, WI, 53029		\$0.00
A & B Car Rental-Baranof Moto		
82 Sitka, AK, 99835		\$2,382.00
A Child's Garden		
86 Morgan Hill, CA, 95037		\$0.00
A New Leaf		
27 Imperial, NE, 69033		\$12,661.00
A S A P Services		
85 Fayetteville, AR, 72701		\$493.00
A-A-B Fashion Uniforms		
31 Tulsa, OK, 74114		\$756.00
Absoraka Cruise & Travel		
100 Cody, WY, 82414		\$1,840.00
Access Miles		
1 Miami, FL, 331766017		\$10,198.00

Multi line rows

- `pbNewLine`
 - Makes a column start at a new line
- `piListColSpan`
 - Makes a column span multiple columns
- `piListRowSpan`
 - Makes a column span multiple rows

Mobile list CSS

- “MobileList” on the list
 - Removes lines
 - Changes spacing
 - Selected row
- “RowCaption” on a column
 - Increases text size
- “RowDetail” on a column
 - Changes text color

Customers			
500 Plus News Magazine	39	Hartland, WI, 53029	\$0.00
A & B Car Rental-Baranof Moto	82	Sitka, AK, 99835	\$2,382.00
A Child's Garden	86	Morgan Hill, CA, 95037	\$0.00
A New Leef	27	Imperial, NE, 69033	\$12,661.00
A S A P Services	85	Fayetteville, AR, 72701	\$493.00
A-A-B Fashion Uniforms	31	Tulsa, OK, 74114	\$756.00
Absoraka Cruise & Travel	100	Cody, WY, 82414	\$1,840.00
Access Miles	1	Miami, FL, 331766017	\$10,198.00

Conclusion

How to get started?

- Download & install the latest Alpha
 - <ftp://ftp.dataaccess.com/pub/products/dataflex/Software/Testing/>
- Read the DOC
 - What's new > What's New in DataFlex 2014 - 18.1 > **The Mobile/Touch Application Style**
- Use MobilePlay workspace for testing
 - Contains Order Entry database and DD's

What's coming?

- Alpha 2 was released two weeks ago
 - First version with the Mobile Application Style
- Alpha 3 will be released soon
 - Lots of bugfixes based on first feedback
- We need your help in testing this!
 - Report issues on the forum

Thank you for your time!

Questions?