Developing Fluid Applications Topics
- Fluid User Interface Overview
- Understanding Fluid Development
- Creating Fluid Pages
- Creating and Replicating Fluid Components
- Troubleshooting the Fluid Application
- Additional Information
Developing Fluid Applications Topics

- Fluid User Interface Overview
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What is PeopleSoft Fluid User Interface?

• The next evolutionary step for the PeopleSoft application user experience.
• It takes advantage of the latest web development standards (HTML 5.0 and CSS 3.0).
• Provides a flexible application that can be accessed from a variety of devices and display a suitable interface on multiple form factors.
• Attractive, efficient, and offers the user experience today’s workforce needs and expects.
• The direction of all future PeopleSoft application development.
Taking Advantage of Fluid User Interface

• Implementing the Fluid User Interface *isn’t just* for customers on PeopleSoft 9.2 applications.

• If you are running PeopleSoft 9.2 applications, you can deploy the fluid applications delivered with your latest PUM image.

• If you are running PeopleSoft 9.2 *or* 9.1 applications, you can develop new, custom fluid applications.

• If you are running PeopleSoft 9.2 *or* 9.1 applications, you can convert or extend existing classic PeopleSoft components and pages for fluid deployment. (See *Oracle Red Paper: Converting Classic PIA Components to PeopleSoft Fluid User Interface* < Doc ID 1984833.1 >)
Prerequisites

This session assumes you have a working knowledge of:

• Application Designer
• Portal Registry
• Fluid homepages, tiles, and fluid application usage.
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Tools and Technology Used to Build Fluid Applications

Developers Use the Same Tools!

PeopleTools:
• Application Designer
• PeopleCode

Web Development Technologies:
• CSS 3
• HTML 5
• JavaScript
Reviewing the 8 Steps of PeopleSoft Development

Developers Use the Same Steps!

1. Design application.
2. Create fields.
3. Create record definitions.
4. Build SQL tables.
5. Create pages.
6. Create components.
7. Register components.
8. Test the application.
# Using Application Designer for Fluid Development

## Comparing Usage to Classic Development

<table>
<thead>
<tr>
<th></th>
<th>Layout Approach</th>
<th>Tab Ordering</th>
<th>Applying Styles</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Classic</strong></td>
<td>Pixel-perfect, manual layout. (WYWISWG)</td>
<td>Controlled by Order tab for the page definition.</td>
<td>Fixed Form typically, selected from various drop-downs in the page field properties dialog box.</td>
</tr>
<tr>
<td><strong>Fluid</strong></td>
<td>Create structure.</td>
<td>Controlled by the structure’s rendering order.</td>
<td>Only Free Form, entered on the Fluid tab.</td>
</tr>
</tbody>
</table>
Previewing the Session Activity

Converting Classic to Fluid
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Creating a Fluid Page Definition

To create a fluid page:

1. In Application Designer, select File > New.

2. Select *Page (Fluid)*.
Using Predefined Layout Pages
Understanding Flexible Box Layout (Flex Layout)

Flexible, Dynamic Layout

Per W3C:

*In the flex layout model, the children of a flex container can be laid out in any direction, and can “flex” their sizes, either growing to fill unused space or shrinking to avoid overflowing the parent. Both horizontal and vertical alignment of the children can be easily manipulated.*

See http://www.w3.org/TR/css-flexbox-1/
Using Group Boxes on Fluid Pages

More than a Visual Cue

PeopleTools uses group boxes:

• Create containers for page content.

• Render HTML <div> tags for the page containers.

• Enable CSS to be applied to discrete containers.
Using Subpages

Modular development

You will often see subpages used to hold fluid page content. Subpages:

• Reduce clutter in the layout page.
• Group related fields into separate entities.
• Logically separate business logic.
Working with Fluid Page Properties

![Fluid Page Properties](image-url)
Online Demo: Create a Fluid Page

1. Choose the new definition for your fluid page.
2. Select the layout page for your fluid page.
3. Save your fluid page with the name `MY_PAGE_FL` and specify the language as English.
4. Confirm that you want to save a copy of the PeopleCode associated with `PSL_APPS_CONTENT`.
5. Preview the layout of your fluid page.
Online Demo: Create a Fluid Page (cont.)

This is not a slide – It is the outline and script for the online demo for review.
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Working with Fluid Components

Fluid components:
- Contain sets of fluid pages.
- Include additional custom pages.
- Define fluid banner options.
Setting Fluid Component Properties

Fluid components:

- Set Component Attributes, such as Fluid Mode.
- Select Fluid Banner features, such as the NavBar.
- Specify whether the component will be available for small form factors (Display on Small Form Factor Homepage).
Registering a Fluid Component

When registering fluid components, keep these items in mind in the registration wizard:

• Add the fluid component to the portal registry, a menu, and a permission list.

• Select *Target Content* for component access.

• The Folder Name must be a sub-folder within the Fluid Pages content reference folder.
Registering a Fluid Component (cont.)

[Image of registration wizard for creating content reference and folder administration]

- **Folder Name**: PTFL_PEOPLETOOLS
- **Content Reference Name**: USERMAINT_SELF_FL_GBL
- **Content Reference Label**: USERMAINT_SELF_FL_GBL
- **Long Description (254 Characters)**: USERMAINT_SELF_FL_GBL
- **Sequence Number**: 1
- **Template Name**: DEFAULT_TEMPLATE
- **Object DevId**: PFT - PeopleTools
- **Node Name**: [Optional input]

Folder Administration:
- **Name**: PTFL_PEOPLETOOLS
- **Parent Folder**: Fluid Pages
- **Copy to**: PeopleSoft Applications

Additional details:
- **Open URL**:
- **Open URI Base**: http://localhost/psp(ps)/
Verifying Fluid Component Content Reference

To confirm fluid component registration:

• Locate the content reference in the portal registry.
• View the content reference in the Add Tile dialog box.
Online Demo: Creating and Registering a Fluid Component

1. USERMAINT_SELF_FL.GBL (Component)
2. Component Properties
3. Header Toolbars
Online Demo: Creating and Registering a Fluid Component (cont.)
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Touching Up the Fluid Page

Clean up tasks:

• Tile display.
• Page label.
• Grid layout type.
• Add buttons.
• Modify styling.
Changing the Tile’s Appearance

The tile is the first element a user sees when accessing a fluid application. Therefore, it should:

• Be labeled intuitively.
• Use graphical characteristics to aid in quick identification.
Changing the Tile’s Appearance (cont.)

These content reference settings enable you to update the tile appearance quickly:

• General: Label
• Fluid Attributes: Image Name
Updating the Page Identifier
Updating the Grid Layout Type

To update the grids on your fluid page:
1. Open Grid Properties dialog box.
2. On the Use tab, select a fluid Grid Layout type.
Adding a Save Button

Because fluid pages do not use the classic portal header and footer constructs, you can:

- Add required buttons manually.
- Create a footer page containing buttons for a component.
Working with Inline and Block Elements

• Inline elements flow with text and generally assume a position on the same line.
• Block elements naturally appear below other elements when needed.
• Placing a layout group box around inline elements, makes them block elements, by default.

Password

Change password  Change or set up forgotten password help
Modifying Style

For every fluid page or fluid control, you can use the Free Form Style group box to:

- Extend the default styles applied.
- Override the default styles applied.
Modifying Style (cont.)

Adding a Standalone Style

Some styles you can apply directly to a page element.

These styles are not dependent on any other style applied previously.
Modifying Style (cont.)

Adding Style Within a Construct

Unlike standalone styles, some styles need to be applied:

• To a specific construct, or structure.
• In a specific order, with other styles applied previously.
Online Demo 3: Touching Up the Converted Fluid Application (tile)
Online Demo 3: Touching Up the Converted Fluid Application (Banner label)
Online Demo: Touching Up the Converted Fluid Application (Grids and Save Button)
Online Demo: Touching Up the Converted Fluid Application (Applying Style)

1. Free Form Style
   - Override PeopleTools Style?
   - Default Style Name: psc_primary

2. Save

3. Password
   - Change password
   - Change or set up forgotten password help

4. psc_column.2
   - Override PeopleTools Style?
   - Default Style Name: psc_column.2

5. psc_column.1of2
   - Change or set up forgotten password help
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Information on Fluid User Interface Development

PeopleSoft Online Help - PeopleSoft PeopleTools 8.54:
- Fluid User Interface Developer’s Guide
- Application Designer Developer’s Guide
- PeopleCode API Reference

My Oracle Support: PeopleSoft Fluid User Interface Documentation Updates (Doc ID 1909955.1):
- PeopleSoft Fluid Documentation Updates
- PeopleSoft Fluid User Interface CSS Guide

Oracle Red Paper: Converting Classic PIA Components to PeopleSoft Fluid User Interface (Doc ID 1984833.1)
Additional Resources

Courseware

Oracle University Training

• PeopleSoft Fluid User Interface Rel 8.54 (2 Days)
• PeopleSoft PeopleTools I/II Rel 8.53 (5 Days)
• PeopleTools Portal and PeopleSoft Interaction Hub Administration (5 Days)
• PeopleSoft PeopleCode Rel 8.53 (5 Days)
Hardware and Software
Engineered to Work Together