

Policy Center

# Lesson Outline

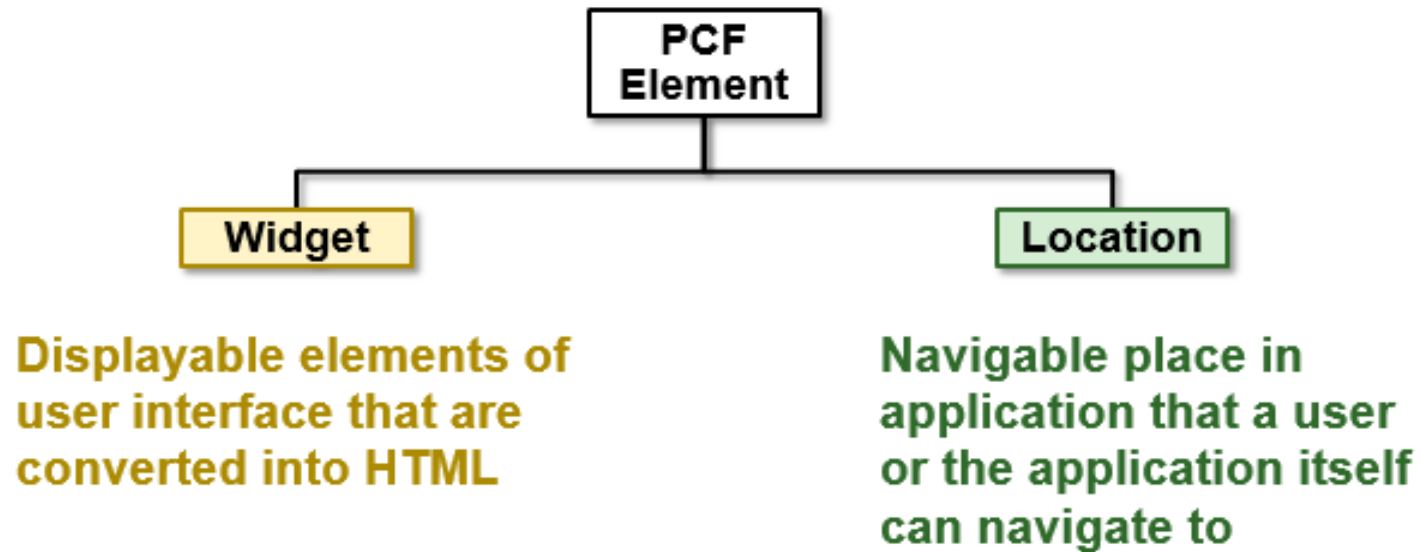
- User Interface Architecture
- PCF Files
- Atomic Widgets
- Input Set
- Display Keys

# Recap

- Data Modal
  - Entity – eti , eix , etx
  - Entity Fields – define the state or nature of a specific instance of the entity
  - Typelists – tti , tix , ttx
- Extending and Creating Entities
  - Datakey – eg. HouseName
  - Arraykey – eg. RouteDetails
  - Foreignkey – eg. HouseDetails
- Typelist and Typefilters
  - Typekey – eg. Occupation
  - TypeFilter – eg. Hospital
- Data Dictionary - Documents the entities and typelists in the application
  - gwXX regen-dictionary

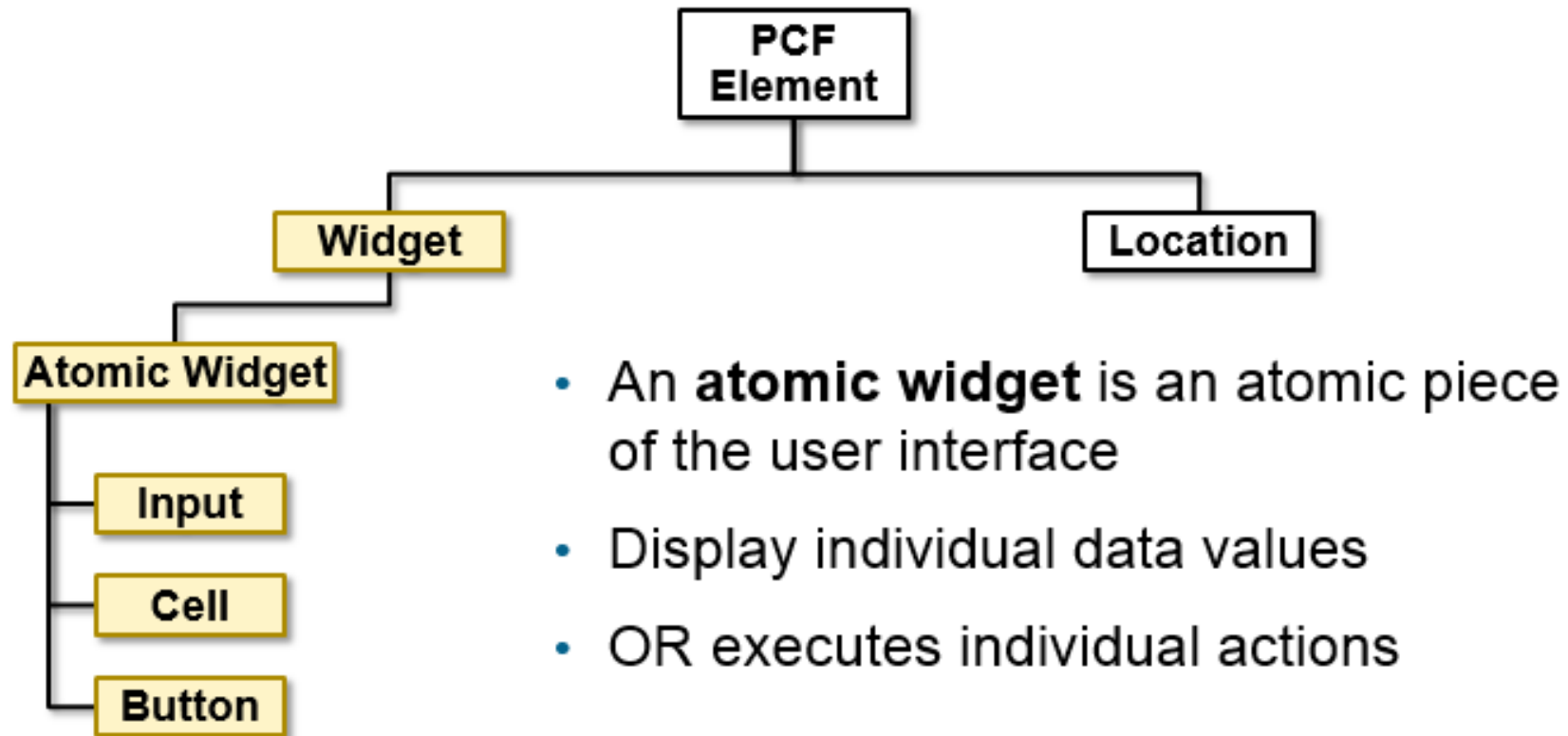
# User Interface Architecture

# User Interface Architecture



The **PCF (Page Configuration File)** object model is a proprietary application framework used to create all Guidewire end-user interfaces

# Atomic Widget



# Atomic Widget Example

- Button

- Cell

- Input

**Addresses**

<input type="checkbox"/>	Primary	Address Type	
<input type="checkbox"/>	<input checked="" type="radio"/>	Home	345 Fir Lane, La Canada, ...
<input type="checkbox"/>	<input type="radio"/>	Business	8982 Merrydale Dr, San F...
<input type="checkbox"/>	<input type="radio"/>	Billing	1253 Paloma Ave, Arcadl...

**Address Detail**

Address Type: Home

Description: Home

Country: United States

Address 1: 345 Fir Lane

Address 2:

Address 3:

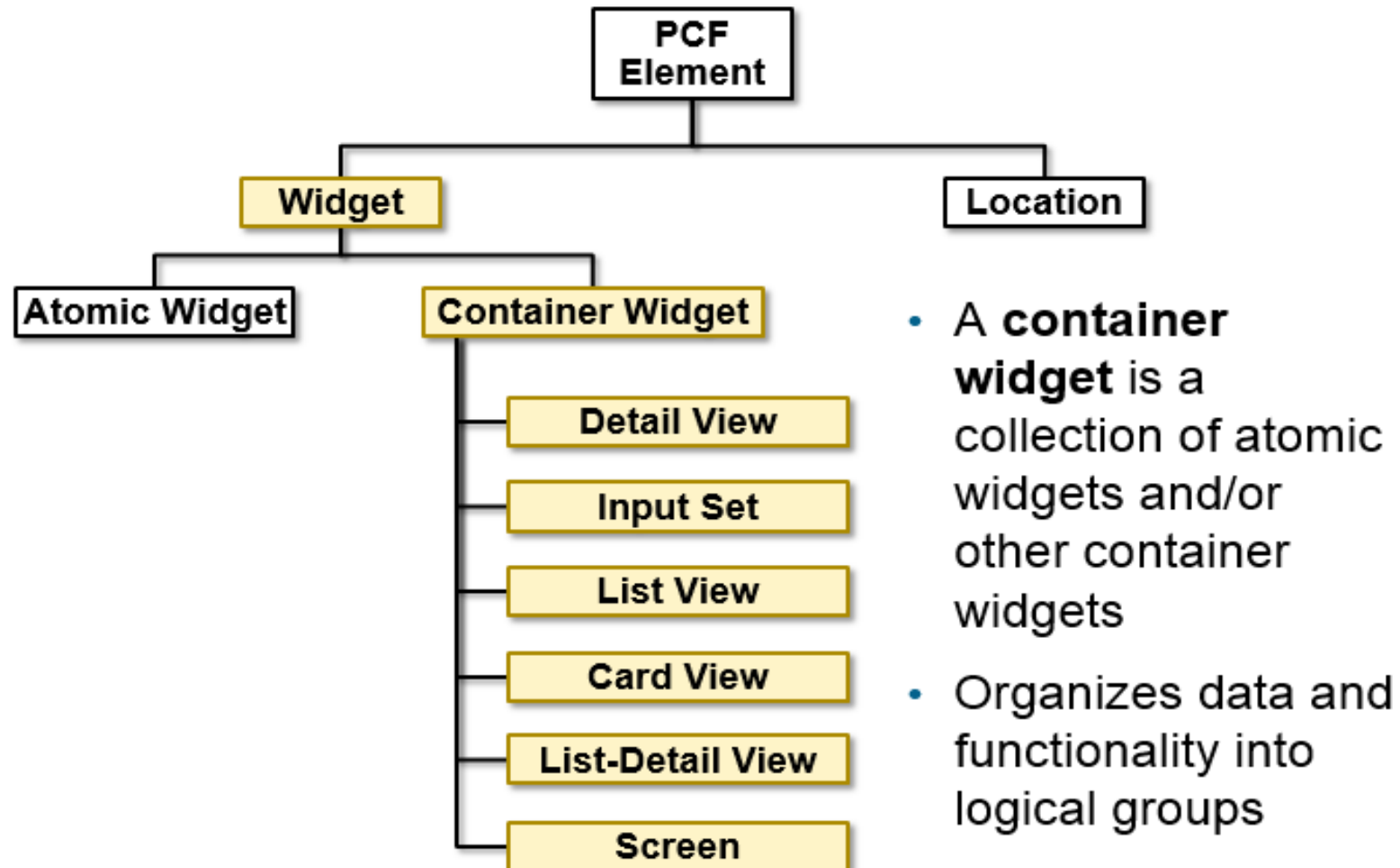
City: La Canada

County:

State: California

ZIP Code: 91352

# Container Widget





# Screen

- Screens are top-level containers
- Every atomic widget, primary view, and secondary view is contained (directly or indirectly) in a screen

Screen

### Summary

[Edit](#) [Suggest Least Busy User](#)

**Basic Information**


Name Eric Andy

Public ID ab:98

Created On 12/06/2013

Assigned User

**Flag Entries**

	View	Date Flagged ↓	Reason	Date Unflagged
	<a href="#">View/Edit</a>	12/06/2013	No email address for this contact.	

**Primary Address**

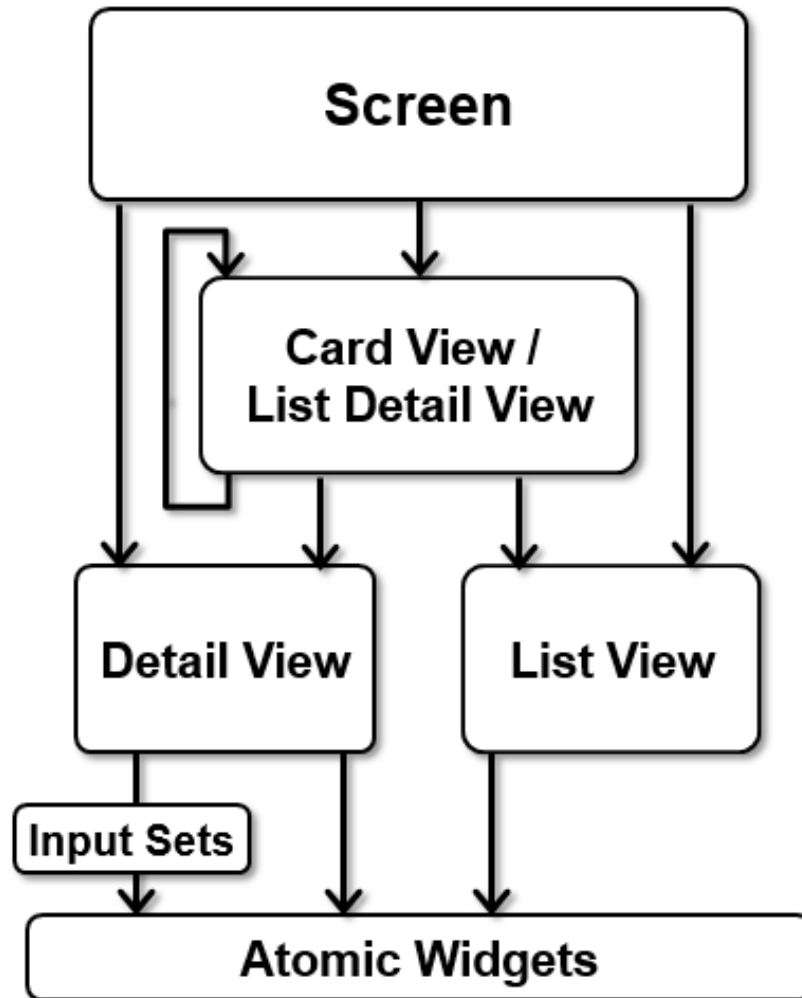
Address 345 Fir Lane  
La Canada, CA 91352  
United States

Address Type Home

Description

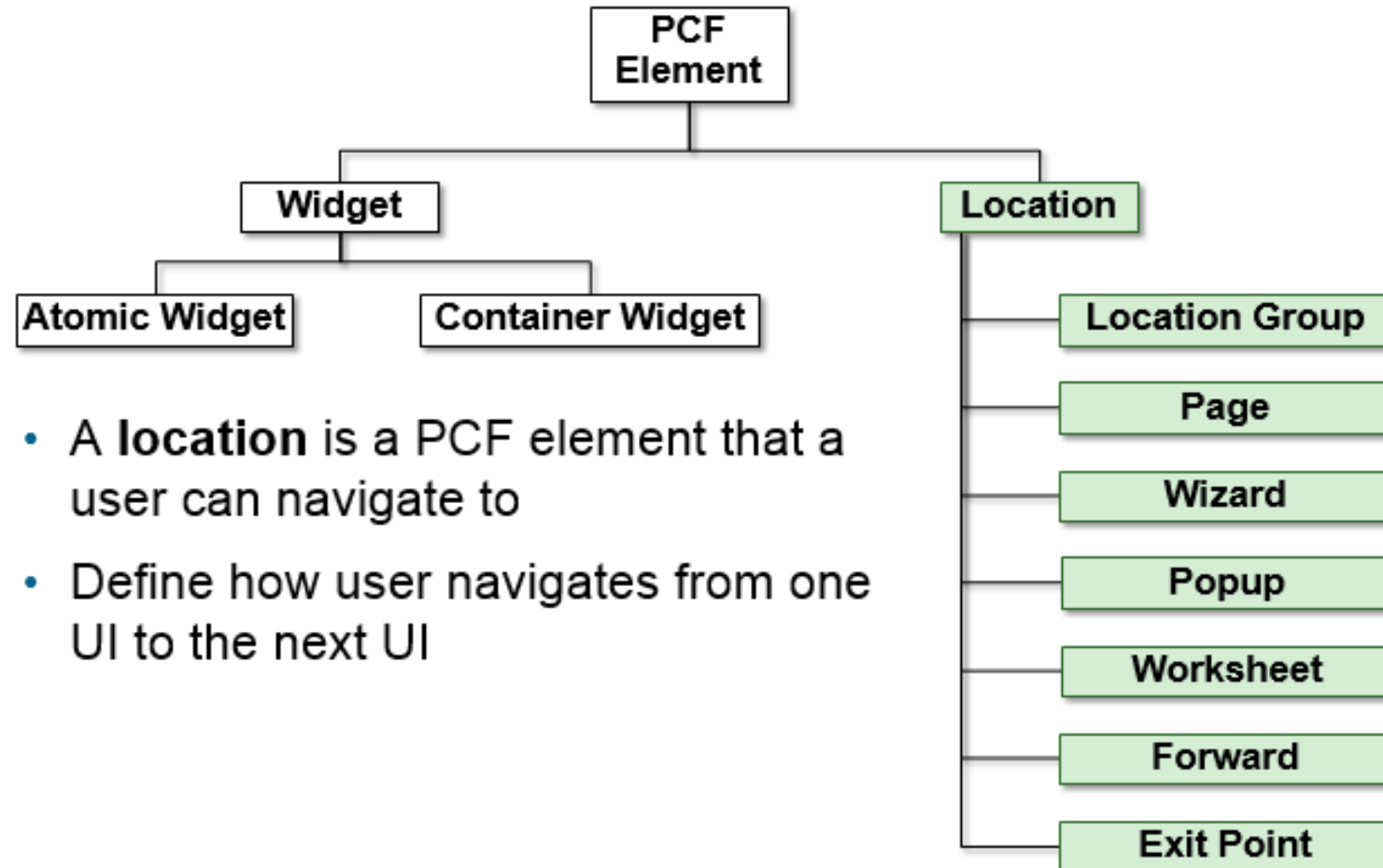
Valid Until

# Widgets Hierarchy

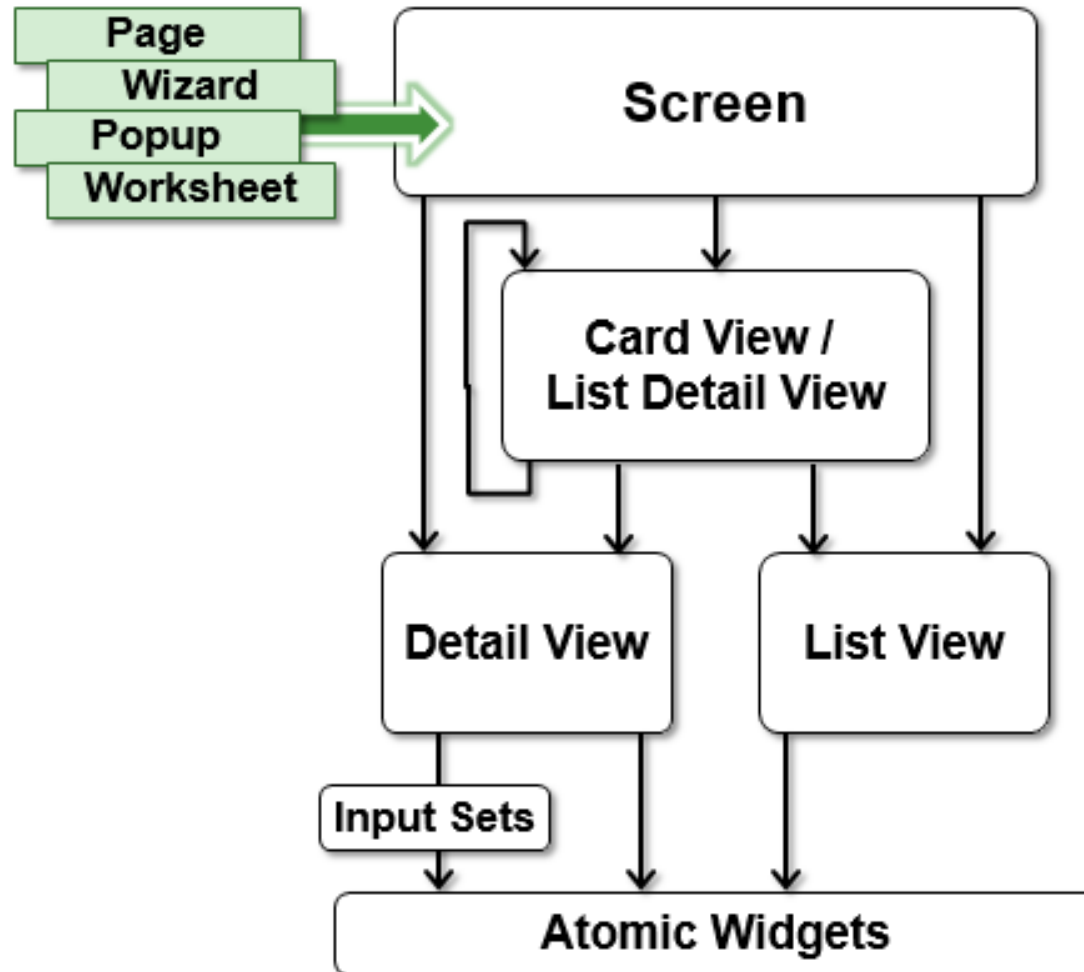


- **Screen**
  - a top-level container one can navigate to
- **Secondary views**
  - collections of primary views organized for usability
- **Primary views**
  - a single object (and its related data) or set of objects
- **Atomic widgets**
  - individual elements of data and/or functionality

# Location

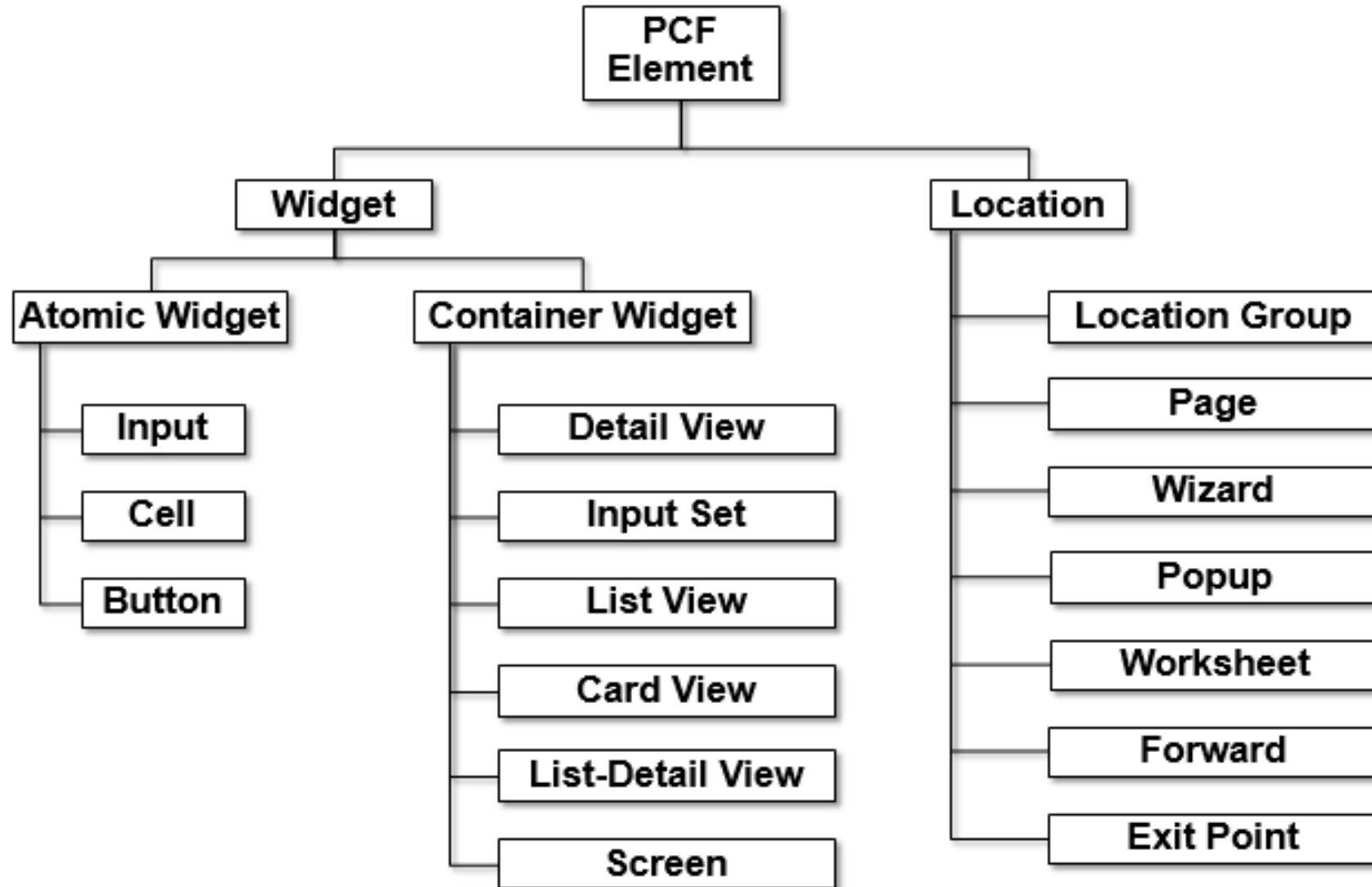


# Container widgets and Location



- A location references a specific screen
- Screens form the bridge between what the application displays and how users work and navigate in the application

# PCF hierarchy



# PCF Commands

# Basic PCF commands

- ALT+SHIFT+I : Location info
- ALT+SHIFT+L : Reload PCFs
- ALT+SHIFT+W : Widget Inspector
- ALT+SHIFT+E : Open PCF in Studio

# Deploy PCF Files

## Restart Server

- PCFs read at server startup



Page  
Configuration  
File

## Reload PCFs

- ALT+SHIFT+L
  - Internal debug tools enabled
- Internal Tools
  - Reload → Reload PCF Files



Page  
Configuration  
File



# Atomic Widgets

# Steps to creating an atomic widget

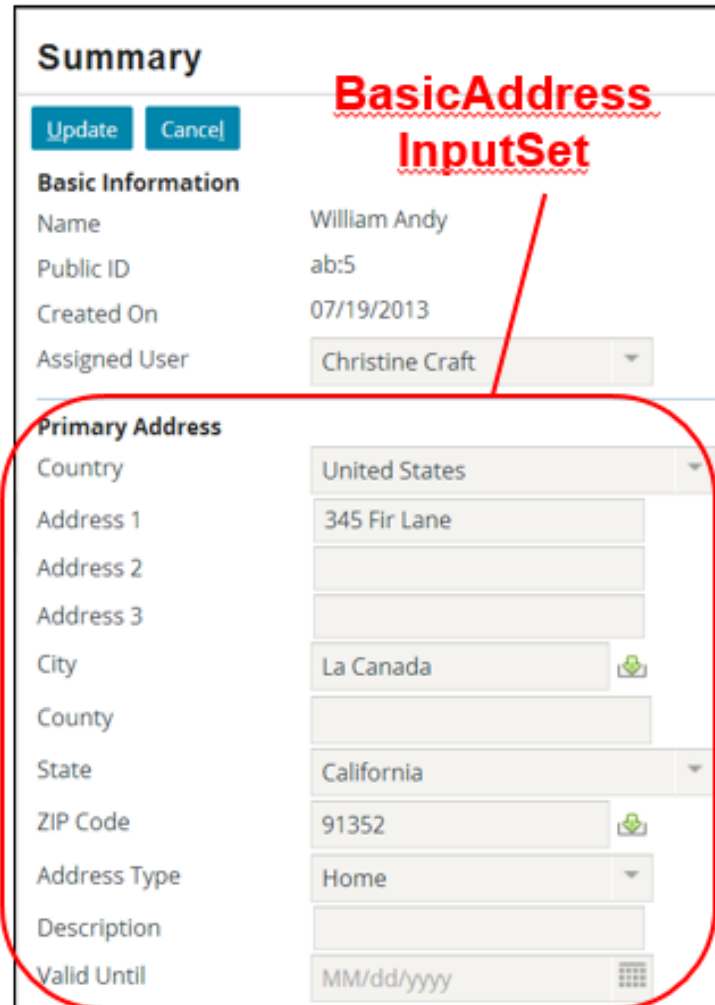
1. Find tool for given type of widget in PCF editor toolbox
2. Drag tool onto PCF editor canvas
3. Specify required properties
  - ▶ ID
  - ▶ If widget displays data, which field does data come from?
4. Specify label
5. Optionally specify additional properties

# Task – Add Atomic Widgets

- Add the below Input in SubmissionWizard\_PolicyInfoDV.pcf
- House Name
- House Number
- Foundation Date

Input Set

# Input sets



**Summary**

[Update](#) [Cancel](#)

**Basic Information**

Name William Andy

Public ID ab:5

Created On 07/19/2013

Assigned User Christine Craft

**Primary Address**

Country United States

Address 1 345 Fir Lane

Address 2

Address 3

City La Canada

County

State California

ZIP Code 91352

Address Type Home

Description

Valid Until MM/dd/yyyy

**BasicAddress InputSet**

- An **input set** is a named group of widgets
  - Can contain only widgets that can be put in detail views
- Uses:
  - Reuse single set of inputs across multiple detail views
  - Extend single instance of visibility or editability logic across multiple widgets

# Example of input set reuse

The image displays two overlapping screenshots of a web application interface, illustrating the reuse of an input set for addresses.

**Top Screenshot (Addresses List/Detail View):**

- Left Panel (Actions):** Summary, Details, **Addresses (3)**, Notes (0), Analysis, Interactions, History.
- Right Panel (Addresses):** Buttons: Update, Cancel, Add, Remove, Delete Secondary Address. Table:

<input type="checkbox"/>	Primary	Address Type	
<input checked="" type="checkbox"/>	<input checked="" type="radio"/>	Home	345 Fir Lane, La Canada, ...
<input type="checkbox"/>	<input type="radio"/>	Billing	2345 S Sycamore St, Bro...
<input type="checkbox"/>	<input type="radio"/>	Billing	1700 Menlo Park Dr, Me...
- Address Detail (Bottom):** Address Type: Home, Description: Home, Country: United States, Address 1: 345 Fir Lane, Address 2: , Address 3: , City: La Canada, County: , State: California, ZIP Code: 91352.

**Bottom Screenshot (Summary View):**

- Left Panel (Actions):** Summary, Details, **Addresses (3)**, Notes (0), Analysis, Interactions, History.
- Right Panel (Summary):** Buttons: Update, Cancel. **Basic Information:** Name: William Andy, Public ID: ab:S, Created On: 07/19/2013, Assigned User: Christine Craft. **Primary Address:** Country: United States, Address 1: 345 Fir Lane, Address 2: , Address 3: , City: La Canada, County: , State: California, ZIP Code: 91352, Address Type: Home, Description: , Valid Until: MM/dd/yyyy.

Red boxes highlight the address input fields in both views. A red arrow points from the 'Address 1' field in the Summary view to the 'Address 1' field in the Address Detail view, demonstrating that the same input set is reused.

- BasicAddressInputSet used on both Summary detail view and Addresses listdetail view

# Steps to implement input set

1. Create input set PCF
2. Specify the required variable(s)
3. Add atomic widgets to input set
4. Reference input set from parent container(s)
  - Reference can optionally include "shared logic"
5. Reload UI metadata

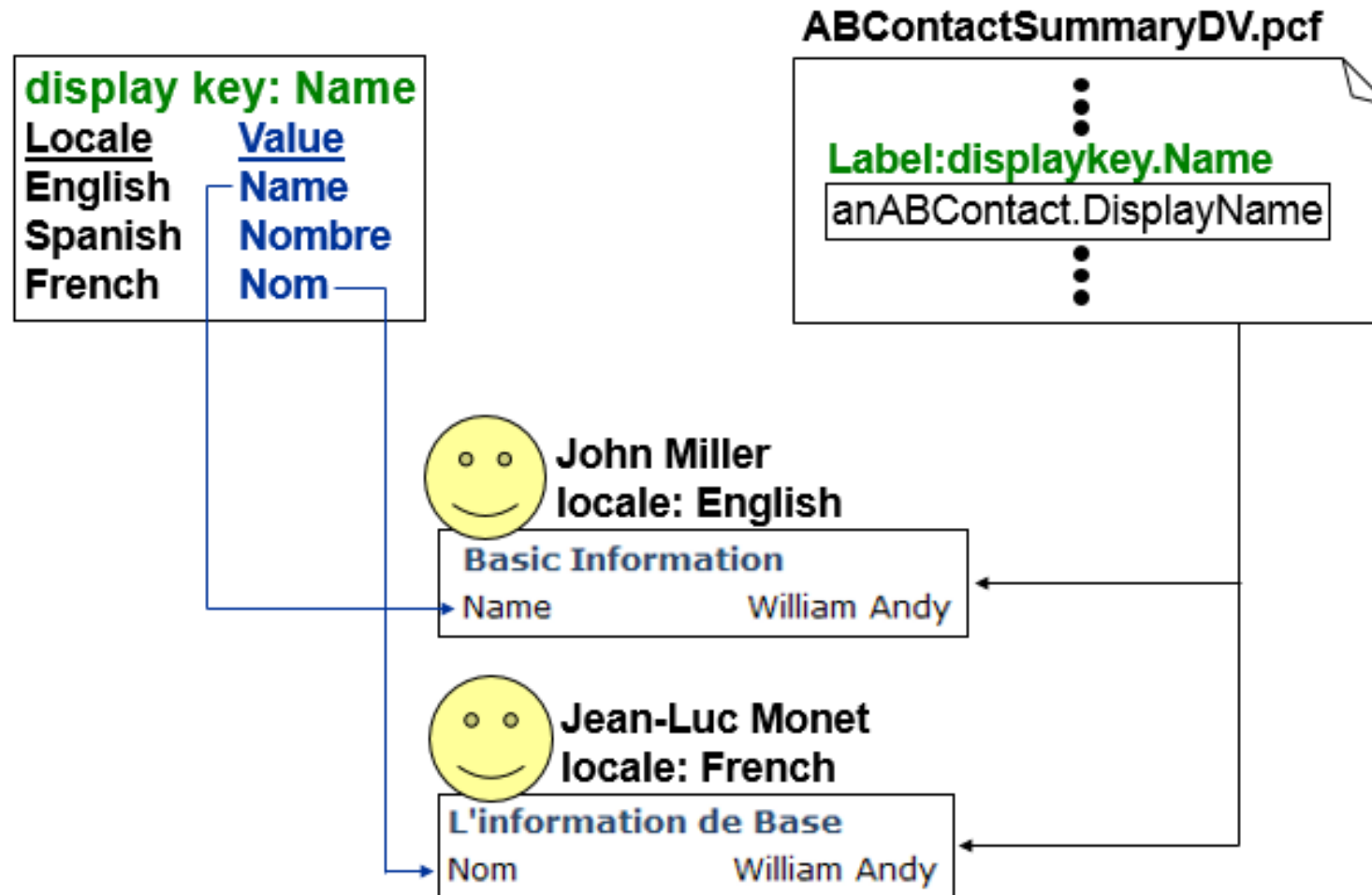
# Task – Create Input Set

- Move the House Details to a separate InputSet
- Create an InputSet “HouseDetails”
- Add the house details to the input set
- Refer the Input set in multiple pages using InputSetRef :
  - SubmissionWizard\_PolicyInfoDV.pcf
  - SubmissionWizard\_ReviewSummaryDV.pcf

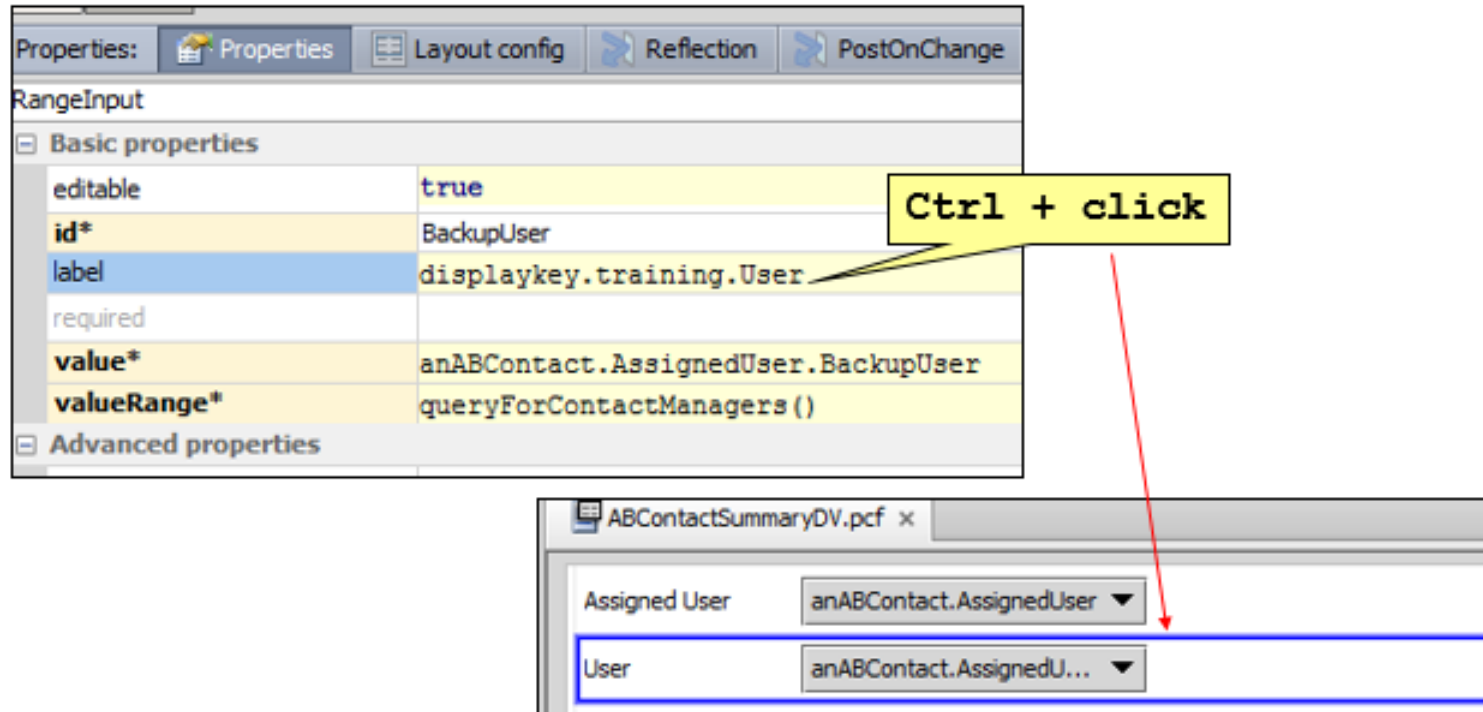


Display Keys

# Display Keys



# Viewing display keys from widget



- To view virtually any item referenced in property of PCF file:
  - Hold down Ctrl key
  - Click reference to item

# Task – Label from Display Key

- Populate the Input added to SubmissionWizard\_PolicyInfoDV.pcf through display keys
  - House Name
  - House Number
  - Foundation Date
- Change House Name to Home Name

# Summary

- Overview of UI Architecture
- Widgets – Atomic and Container Widget
- Locations – Page , Popup, Wizard
- PCF Hierarchy
- Create Atomic Widgets
- Create Input Set
- Display Keys

Thank You