



Using Options Menus



Jim Wilson

MOBILE SOLUTIONS DEVELOPER & ARCHITECT

@hedgehogjim blog.jwhh.com





What to Expect from This Module



Options Menu Basics

Menu Items as App Bar Actions

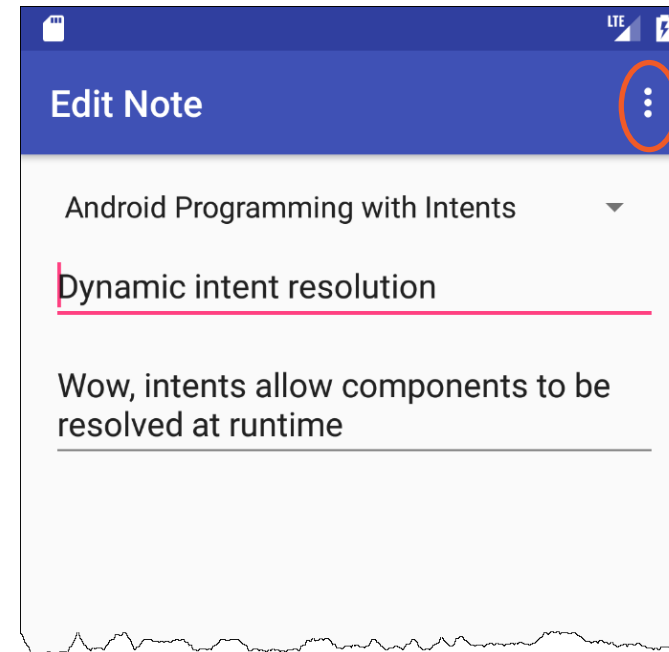
Changing Menu Items at Runtime



Options Menus

Provide actions for an Activity

- Actions available in app bar
- Appear under action overflow by default



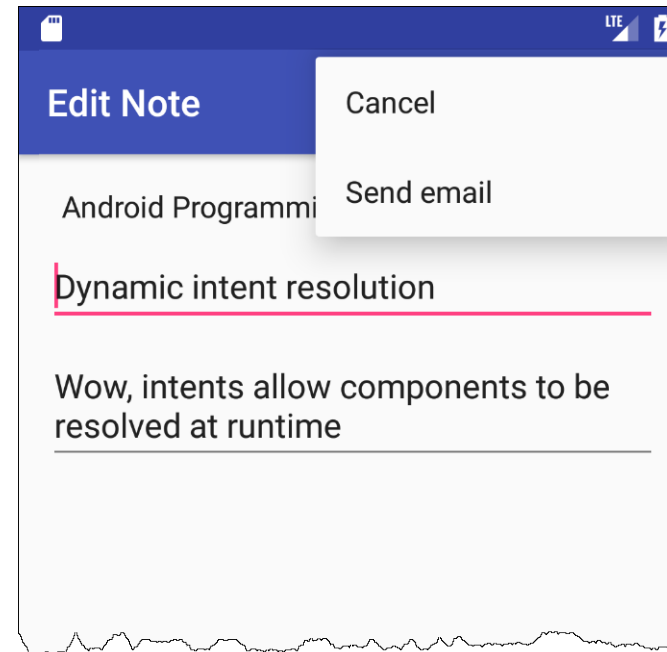
Action
Overflow



Options Menus

Provide actions for an Activity

- Actions available in app bar
- Appear under action overflow by default



Options Menus

Defined in menu resource

- Root of component tree is menu

Each action defined as a menu item

- Has unique ID within menu
- Has a text title



Associating an Options Menu with an Activity

onCreateOptionsMenu

- Receives a menu reference
- Attach menu items to menu
- Inflate menu resource with menu inflater
 - Access with getMenuInflater method



Handling Options Menu Item Selections

onOptionsItemSelected

- Receives MenuItem reference
- Retrieve MenuItem ID value
 - Access with MenuItem.getItemId
- Perform work based on ID value





Menu Items as App Bar Actions

Action overflow menu item challenges

- Not immediately discoverable
- Access takes multiple steps

App bar actions

- Menu items visible on app bar
- Improve access to common menu items
- Normally have icon associated

Making menu item an app bar action

- Use `showAsAction` property





Common ShowAsAction Values

ifRoom

- Display as action when space allows
- Given preference in top-to-bottom order

always

- Always display as action
- Use very sparingly

withText

- Show text with action when space allows
- Can be combined with ifRoom or always



Changing Menu Items at Runtime

Application state can change menu options

- May need to add/remove menu items
- May need to enable/disable menu items





Changing Menu Items at Runtime

onPrepareOptionsMenu

- Override to modify menu state
- Receives reference to current menu
- Initially called before menu displayed

invalidateOptionsMenu

- Call when menu state may need to change
- Schedules call to onPrepareOptionsMenu



Summary



Creating an options menu

- Normally defined as menu resource
- Composed of menu items
 - ID property provides unique identifier
 - Title property provides display text

Associating menu with activity

- Override onCreateOptionsMenu
- Inflate menu resource



Summary



Handling menu item selection

- Override onOptionsItemSelected
- Receives MenuItem reference
- Access ID value with getItemId

App bar actions

- Menu items visible on app bar
- Use showAsAction Property
- Normally have icon associated





Summary



Setting menu state

- Override onPrepareOptionsMenu
- Receives Menu reference
- Can access individual menu items

Triggering change to menu state

- Call invalidateOptionsMenu

