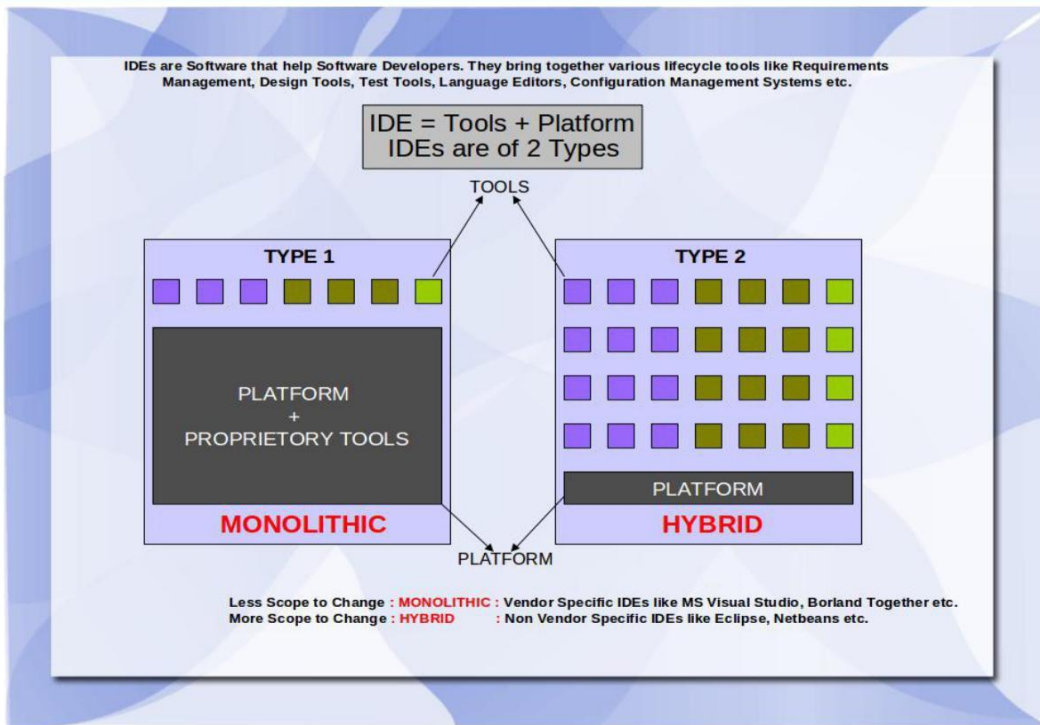
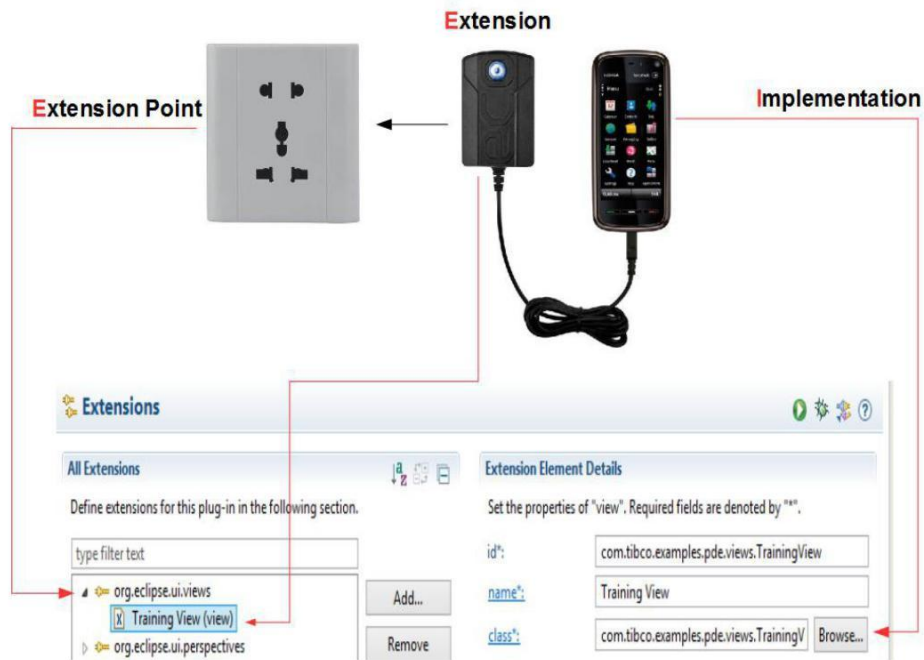


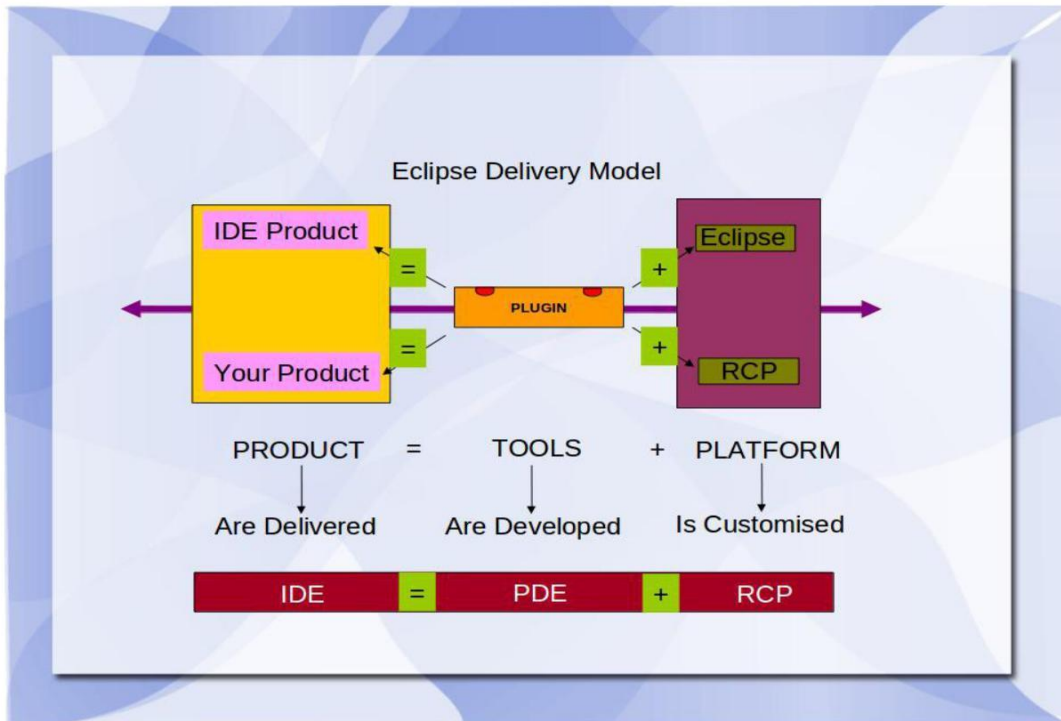
## What is an IDE & Types of IDE



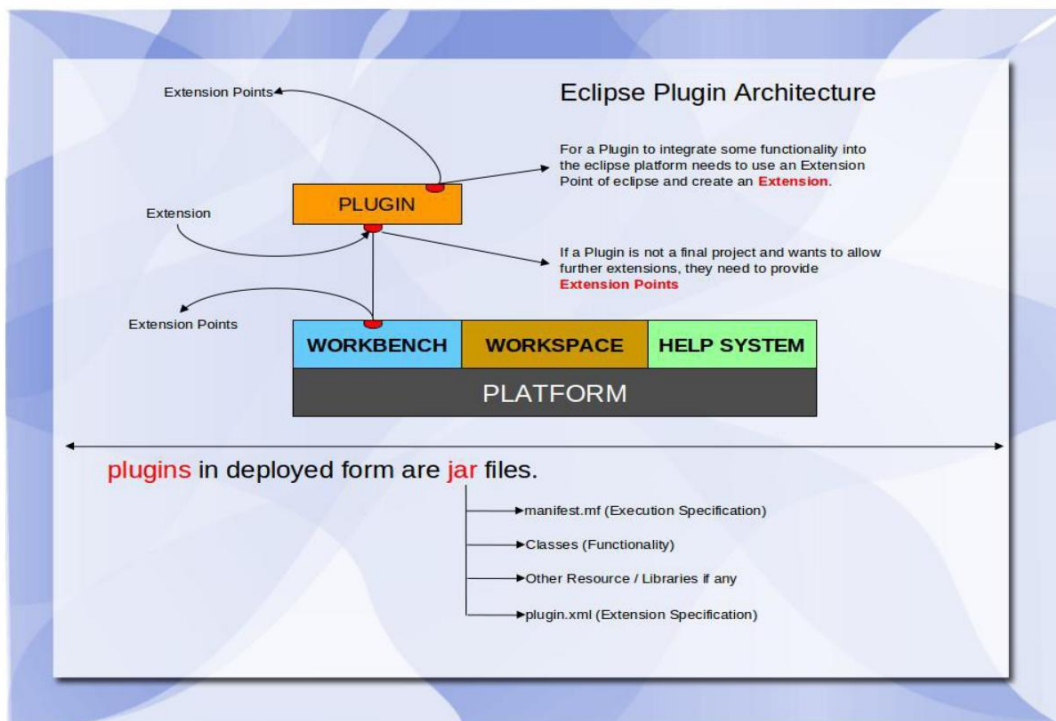
## Extension vs Extension Point



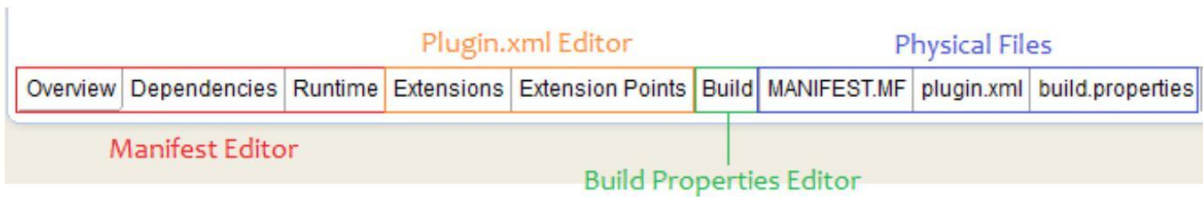
### Eclipse Delivery Model



### Eclipse Plugin Architecture



## Manifest Editor & Its Use



## Selection Service Model

SWT / JFace Widgets attempt to Broadcast Selection around to the IWorkbenchParts / Action Bars  
 IWorkbenchPart is the super class of the IViewPart and IEditorPart

At any given point of time. There can be only 1 Selection Provider  
 Selection from a View/Editor should be made available to  
 1. Other Peer Views / Editors (IWorkbenchPart)  
 2. Actions in the Action Bar (IActionBar - IAction)

Selection Propagation has to happen via Common Agent  
 WorkbenchSite becomes the Common Agent here.  
 Therefore **Selection Provider needs to register to Site.**

Site then takes the responsibility of broadcasting it to  
 1. WorkbenchPage  
 - Page is then responsible to send it to Views / Editors  
 - Therefore **Listener Views / Editors register to Page**  
 2. ActionBar  
 - ActionBar is responsible to send it to Actions  
 - Actions are already registered to ActionBar

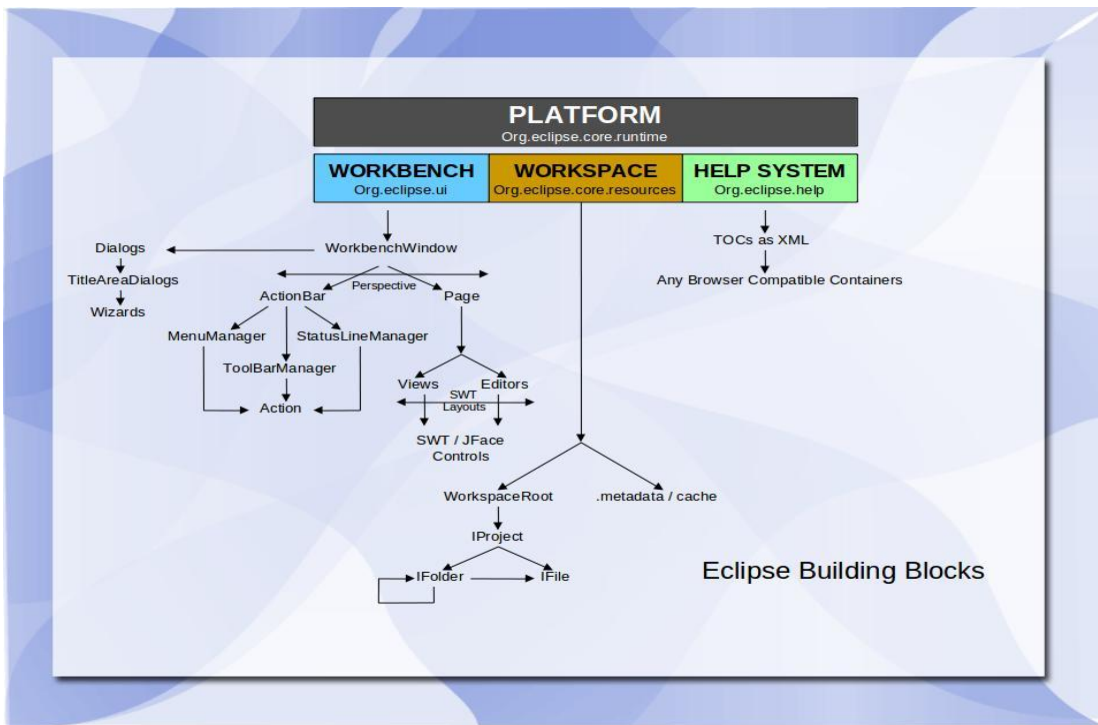
```

            graph TD
                WORKBENCH[WORKBENCH  
Org.eclipse.ui] --> WS[WorkbenchWindow / WorkbenchSite]
                WS --> Page
                Page --> VL[Views]
                Page --> ED[Editors]
                VL --> SWT[SWT / JFace Controls]
                ED --> SWT
                SWT --> SP[Selection Providers Registers to Site]
                SP --> WS
                VL --> PL[WorkbenchPart Listeners Registers to Page]
                ED --> PL
                
```

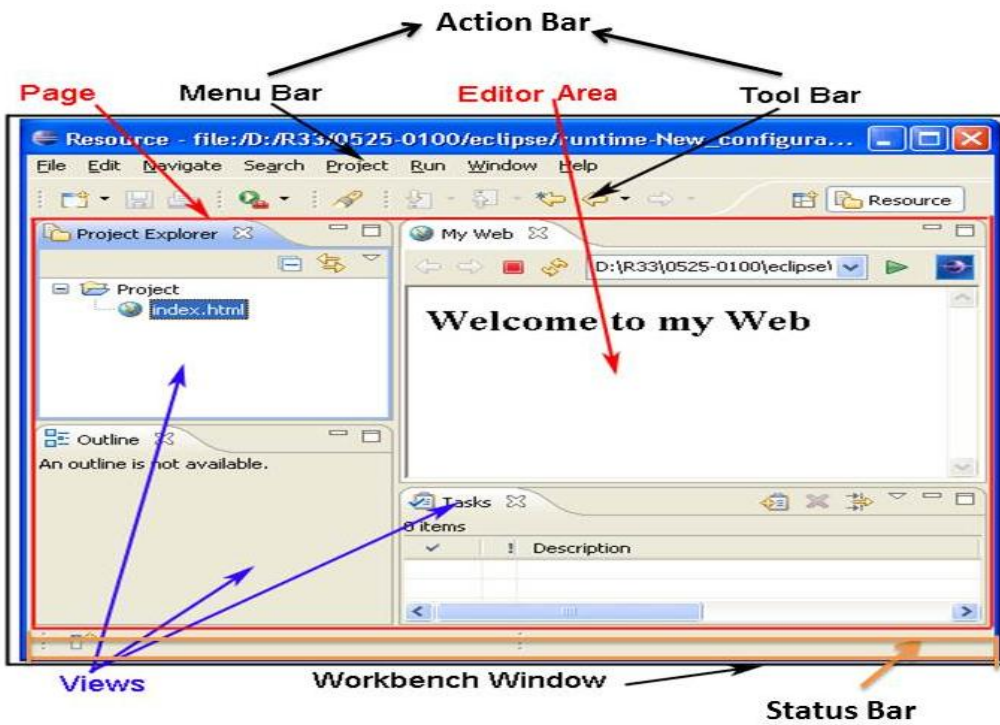
`getSite().getPage().addSelectionListener(ISelectionListener)`  
`getSite().setSelectionProvider(ISelectionProvider)`

Eclipse Service Model

### Building Blocks of Eclipse



### Eclipse IDE Blocks



### Call Hierarchy of TreeViewer's Content and Label Provider

