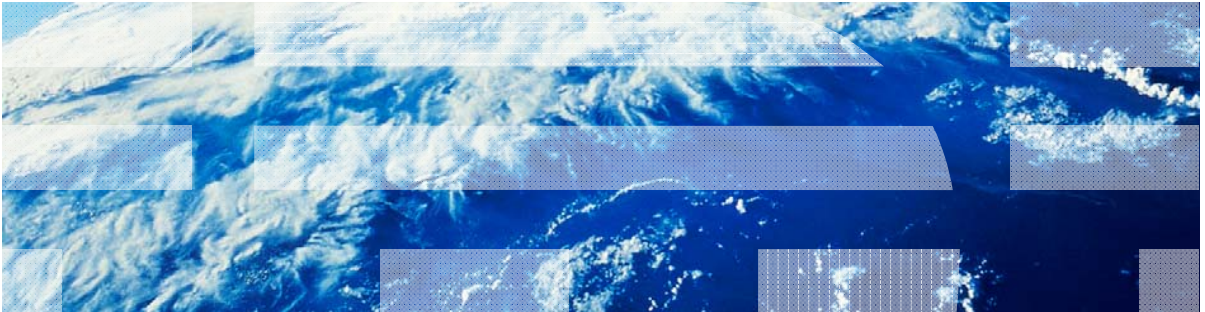


# ***IBM Worklight V6.0.0 Getting Started***

## Setting up your Worklight development environment



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- See <http://www.ibm.com/ibm/us/en/>

# Agenda

- Requirements
- Installing Eclipse
- Installing Worklight Studio
  - Overview
  - Installation
- Appendix: Eclipse Overview

## ***Development environment: choice of operating system***

- Worklight® Studio of the IBM Worklight Developer Edition is supported on the following operating systems:
  - Windows
  - Mac OS
  - Linux
- You can develop IBM Worklight applications with iOS environments on any of these operating systems. However, due to restrictions set by Apple, you can compile an iOS project only on a Mac OS.
- When used on a Mac OS, the Worklight Studio integrates with Xcode (the iOS development environment).
- For more information, see the IBM Worklight user documentation.

# Agenda

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## ***Eclipse: Introduction***

- Multi-purpose Integrated Development Environment (IDE)
- Open source
- Development efficiency:
  - Editor
  - Debugger
  - Source Control
- Worklight Studio is a plug-in for Eclipse that supports the efficient development of rich, multi-channel applications.

## Eclipse Downloading

- Eclipse can be downloaded at <http://www.eclipse.org/>
- The supported versions of Eclipse are:
  - **Eclipse Juno v4.2.2 (SR2)**
  - **Eclipse Classic v4.2.2**

### Eclipse Juno Sr2 Packages



**Eclipse IDE for Java EE Developers**

, (228 MB)

Downloaded 2,567,595 Times [Details](#)



**Eclipse Classic 4.2.2 (32-bit)**

*Date added: March, 1st 2013 - (Freeware)*

## Eclipse Downloading

- After selecting Eclipse IDE for Java EE developers, download the package.



The screenshot shows a web browser window with a navigation bar at the top containing links for Home, Downloads, Users, Members, Committers, Resources, Projects, and About Us. On the left side, there is a sidebar with the text "Downloads Home >>" and three links: "Bit Torrents", "Source code", and "More Packages". Below the sidebar is a section titled "Give Back to Eclipse". The main content area has the heading "Eclipse downloads - mirror selection" and a paragraph stating that all downloads are provided under the terms and conditions of the Eclipse Foundation Software User Agreement unless otherwise specified. Below this, it says "Download eclipse-jee-juno-SR2-win32-x86\_64.zip from:" followed by a link for "[United States] IBM RTP (http)". There is a large green downward-pointing arrow icon. To the right of the arrow, it says "Checksums: [MD5] [SHA1]". At the bottom of the main content area, it says "...or pick a mirror site below."



# Agenda

- Requirements
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## ***Worklight Studio: overview***

- Worklight Studio Developer Edition is an Eclipse plug-in that contains an embedded version of Worklight Server.
- You use Worklight Studio Developer Edition to:
  - Create and modify applications
  - Deploy applications to the embedded Worklight Server
  - Preview and manage applications by using Worklight Console
  - Create custom server-side Java code that can be used by Worklight adapters
  - Create and modify Worklight adapters
  - Deploy Worklight adapters to the embedded Worklight Server
  - Test Worklight adapter procedures

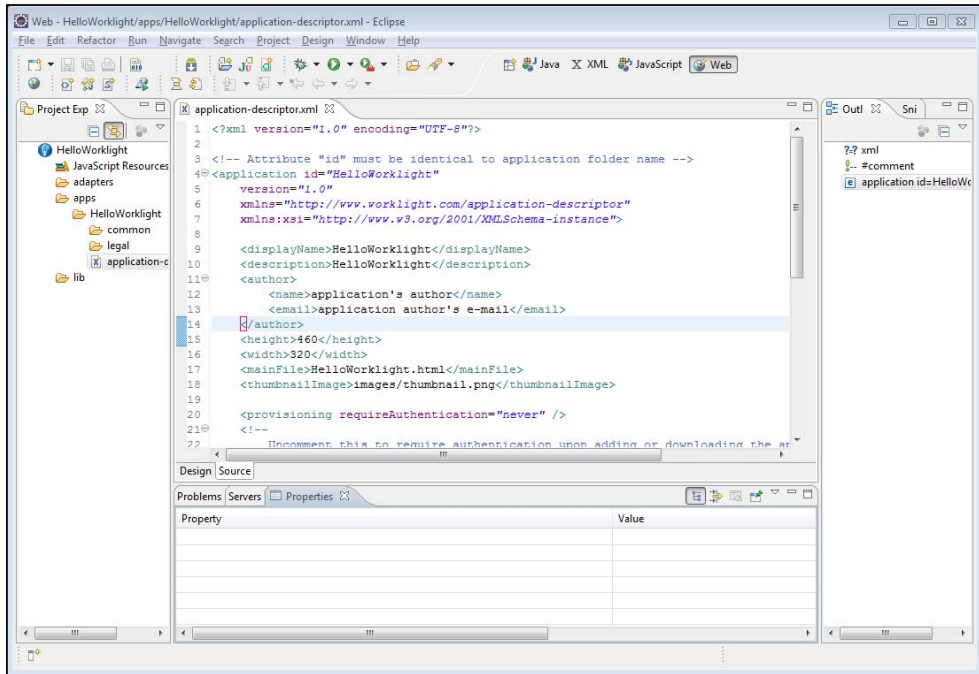
## ***Downloading Worklight Studio***

- You can install Worklight Studio Developer Edition by searching for “worklight” in the Eclipse Marketplace (**Help > Eclipse Marketplace**).
- Alternatively, from Eclipse, you can add the **Worklight Studio Developer Edition** Eclipse update site, and install Worklight Studio directly from the web.
- For more information about how to download and install Worklight Studio, see <http://www.ibm.com/developerworks/mobile/worklight.html>.

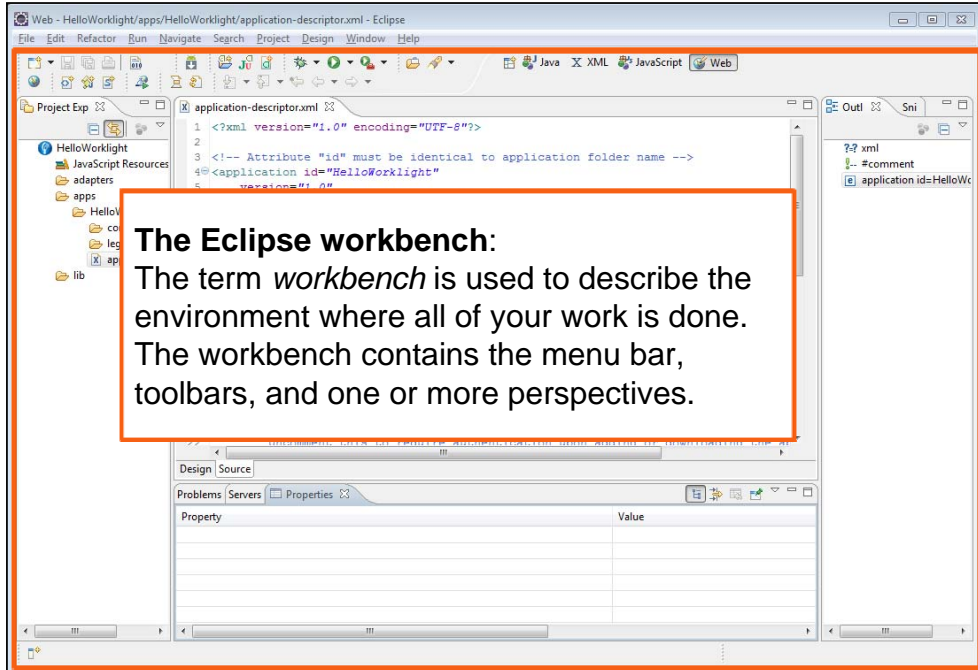
# Agenda

- Requirements
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# Eclipse Terminology: Workbenches



# Eclipse Terminology: Workbenches



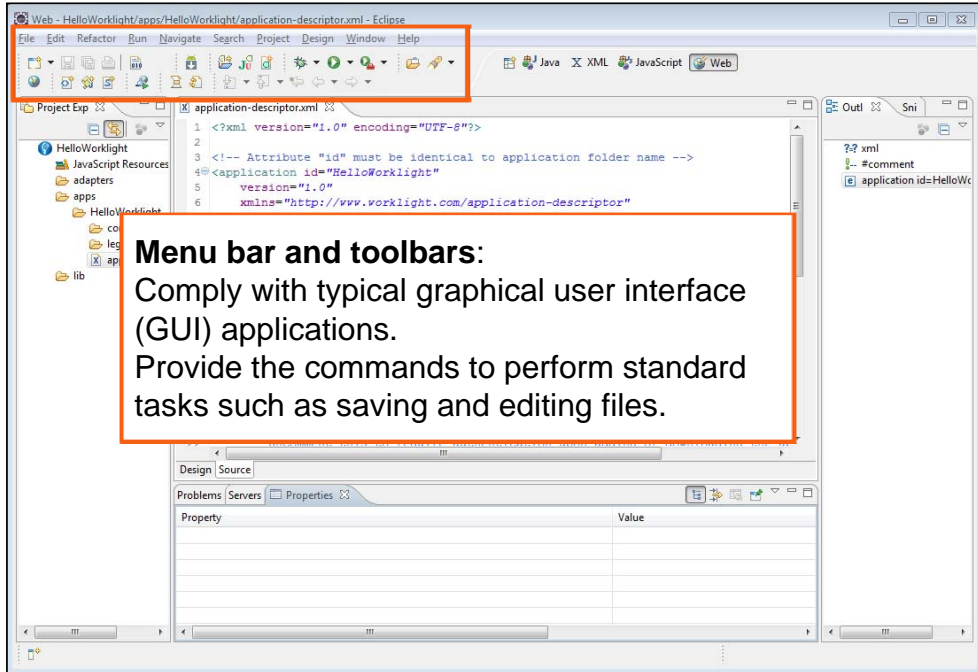
The screenshot displays the Eclipse IDE interface. The top menu bar includes File, Edit, Refactor, Run, Navigate, Search, Project, Design, Window, and Help. Below the menu is a toolbar with various icons. The main workspace is divided into several views: a Project Explorer on the left showing a project structure with folders like 'adapters', 'apps', and 'lib'; a central editor showing an XML file named 'application-descriptor.xml' with the following content:

```
1 <?xml version="1.0" encoding="UTF-8"?>
2
3 <!-- Attribute "id" must be identical to application folder name -->
4 <application id="HelloWorklight"
5     version="1.0" />
```

On the right, there is an 'Out' view showing a snippet of XML code. At the bottom, there is a 'Properties' view with a table for 'Property' and 'Value'.

**The Eclipse workbench:**  
The term *workbench* is used to describe the environment where all of your work is done. The workbench contains the menu bar, toolbars, and one or more perspectives.

## Eclipse Terminology: Menu bar and Toolbar



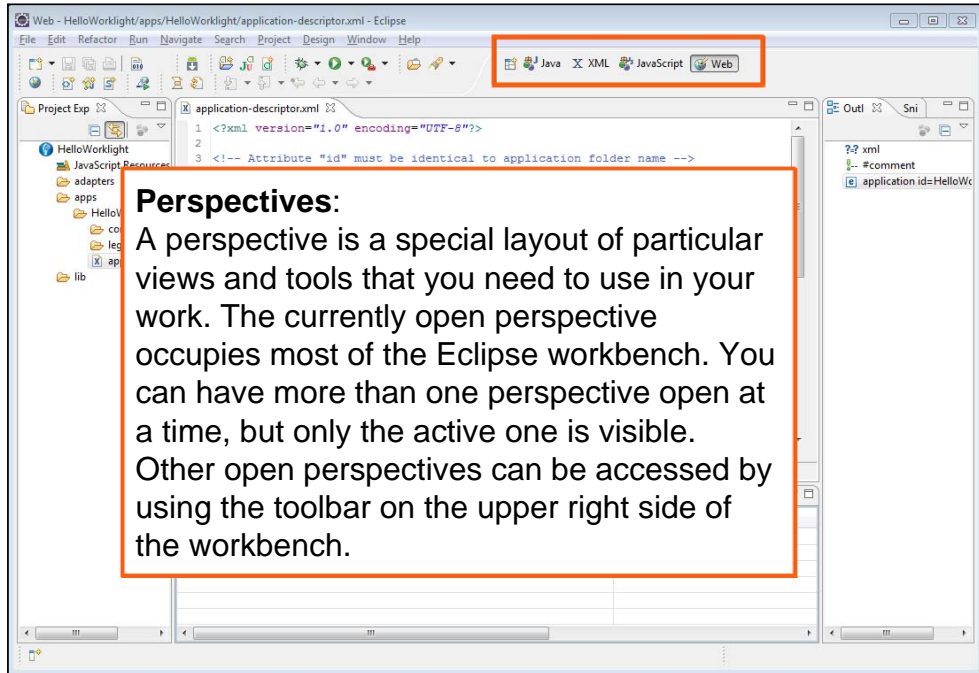
The screenshot shows the Eclipse IDE interface. The menu bar at the top includes File, Edit, Refactor, Run, Navigate, Search, Project, Design, Window, and Help. Below the menu bar is a toolbar with various icons for file operations and development tasks. The main editor window displays the following XML code:

```
1 <?xml version="1.0" encoding="UTF-8"?>
2
3 <!-- Attribute "id" must be identical to application folder name -->
4 <application id="HelloWorklight"
5     version="1.0"
6     xmlns="http://www.worklight.com/application-descriptor"
```

The right-hand side of the IDE shows the Outline view with a tree structure containing an XML file, a comment, and an application ID.

**Menu bar and toolbars:**  
Comply with typical graphical user interface (GUI) applications.  
Provide the commands to perform standard tasks such as saving and editing files.

# Eclipse Terminology: Perspectives



The screenshot shows the Eclipse IDE interface. At the top, a toolbar contains icons for different perspectives: Java, XML, JavaScript, and Web. The 'Web' perspective icon is highlighted with an orange box. Below the toolbar, the main workspace displays an XML file named 'application-descriptor.xml' with the following content:

```
1 <?xml version="1.0" encoding="UTF-8"?>
2
3 <!-- Attribute "id" must be identical to application folder name -->
```

On the right side, the 'Out' view shows the following content:

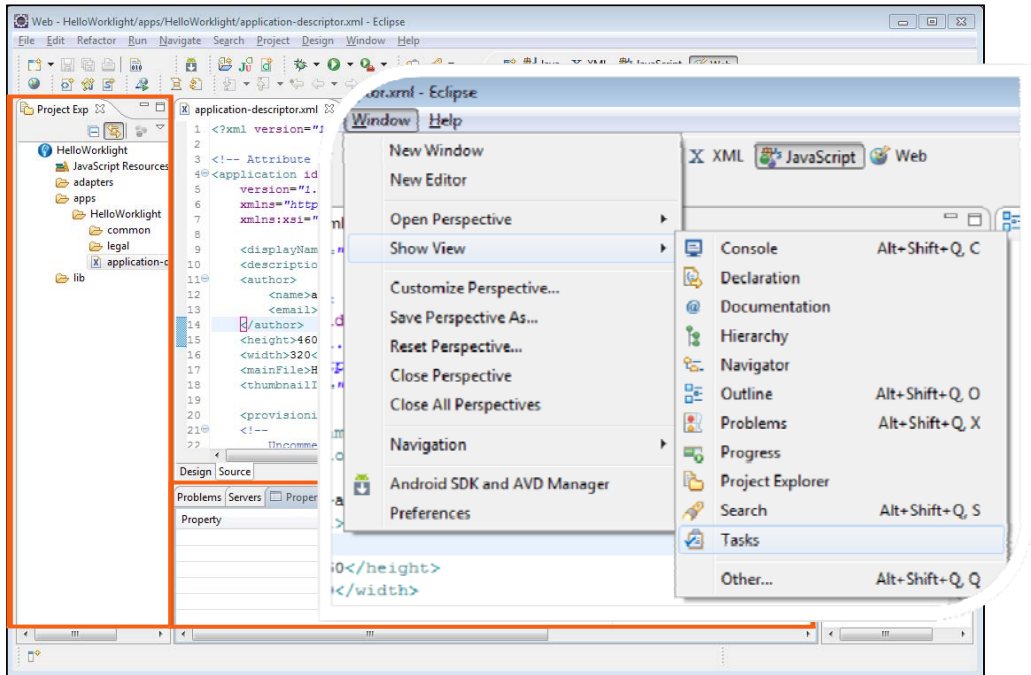
```
?? xml
|-- #comment
[e] application id=HelloW
```

**Perspectives:**  
A perspective is a special layout of particular views and tools that you need to use in your work. The currently open perspective occupies most of the Eclipse workbench. You can have more than one perspective open at a time, but only the active one is visible. Other open perspectives can be accessed by using the toolbar on the upper right side of the workbench.

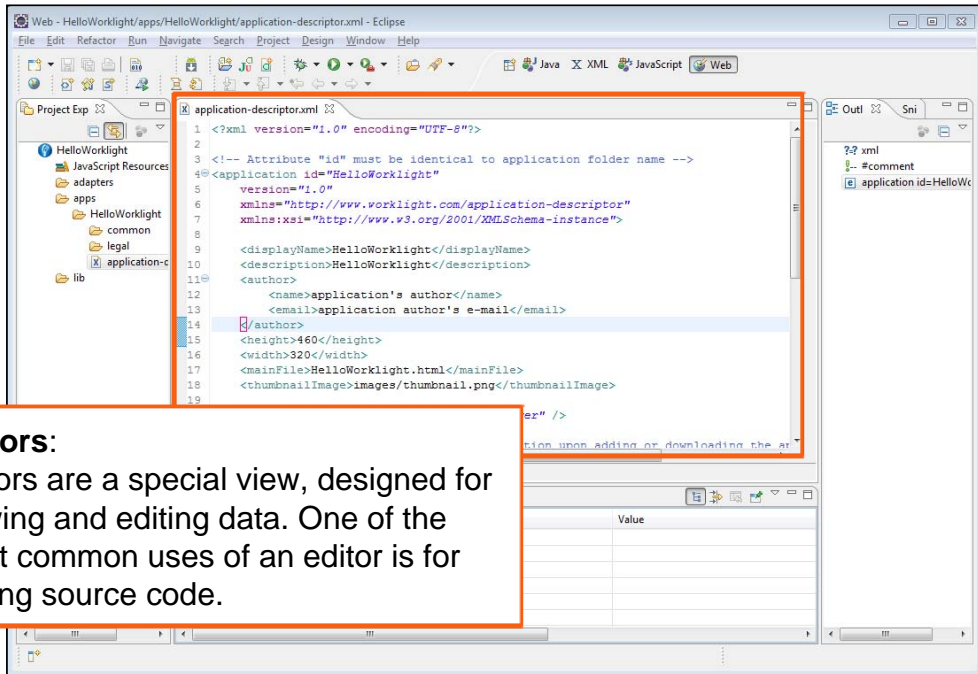




## Eclipse Terminology: Views (2 of 2)



# Eclipse Terminology: Editors



The screenshot shows the Eclipse IDE interface. The main editor window, titled "application-descriptor.xml", contains the following XML code:

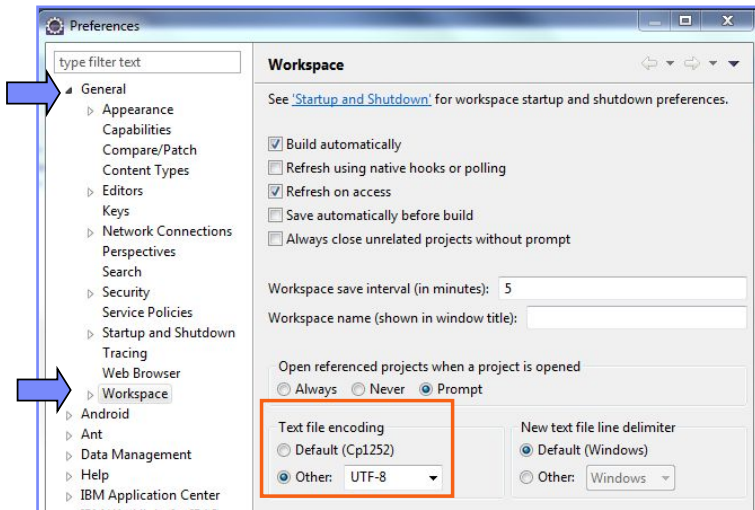
```
1 <?xml version="1.0" encoding="UTF-8"?>
2
3 <!-- Attribute "id" must be identical to application folder name -->
4 <application id="HelloWorklight"
5     version="1.0"
6     xmlns="http://www.worklight.com/application-descriptor"
7     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
8
9     <displayName>HelloWorklight</displayName>
10    <description>HelloWorklight</description>
11    <author>
12        <name>application's author</name>
13        <email>application author's e-mail</email>
14    </author>
15    <height>460</height>
16    <width>320</width>
17    <mainFile>HelloWorklight.html</mainFile>
18    <thumbnailImage>images/thumbnail.png</thumbnailImage>
19
```

The callout box contains the following text:

**Editors:**  
Editors are a special view, designed for viewing and editing data. One of the most common uses of an editor is for editing source code.

# Eclipse

- Before beginning to create projects and work with your eclipse installation, go to **Window > Preferences > General > Workspace**, and change the text file encoding to **UTF-8**.



## *Useful Keyboard Shortcuts*

- CTRL + F: find
- CTRL + K: find next
- CTRL + J: incremental find next
- CTRL + L: go to line
- CTRL + SHIFT + R: open resource
- CTRL + Q: last edit location
- ALT + ← (left): back
- ALT + → (right): forward
  
- Note: CTRL key is for Linux and Windows. Use CMD key on Mac instead.

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