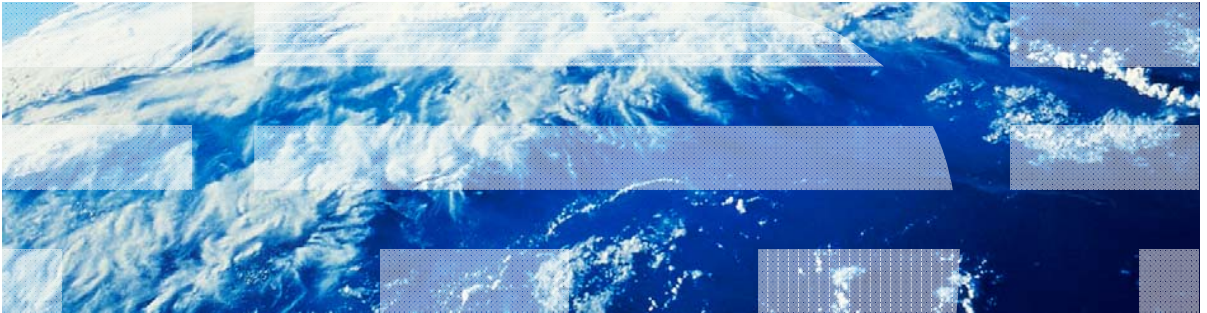


# ***IBM Worklight V5.0.6 Getting Started***

Setting up your Worklight development environment



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

# Agenda

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

## ***Development Environment: Choice of Operating System***

- Worklight® Studio is supported on the following operating systems:
  - Windows
  - Mac OS
  - Linux
- You can develop for 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 V5.0.6 user documentation.

# Agenda

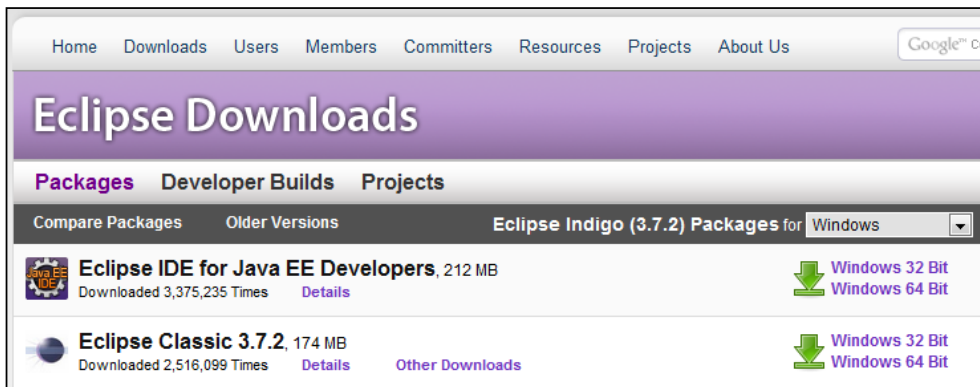
- Requirements
- Installing Eclipse
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  - Installation
- Appendix: Eclipse Overview

## ***Eclipse: Introduction***

- Multi-purpose Integrated Development Environment
- Open source
- Development Efficiency
  - Editor
  - Debugger
  - Source Control
- The Worklight Studio is a robust 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 following editions of Eclipse are supported:
  - Eclipse Classic
  - Eclipse for Java™ Enterprise Edition (Java EE) Developers



The screenshot shows the Eclipse Downloads page. The navigation bar includes links for Home, Downloads, Users, Members, Committers, Resources, Projects, and About Us. The main heading is "Eclipse Downloads". Below this, there are tabs for Packages, Developer Builds, and Projects. The current view is "Eclipse Indigo (3.7.2) Packages for Windows". Two download options are listed:

Package Name	Size	Download Count	Details	Other Downloads	Operating Systems
Eclipse IDE for Java EE Developers	212 MB	Downloaded 3,375,235 Times	<a href="#">Details</a>		Windows 32 Bit Windows 64 Bit
Eclipse Classic 3.7.2	174 MB	Downloaded 2,516,099 Times	<a href="#">Details</a>	<a href="#">Other Downloads</a>	Windows 32 Bit Windows 64 Bit

# Agenda

- Requirements
- Installing Eclipse
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  - Overview
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## ***Worklight Studio: Introduction***

- Worklight Studio is an Eclipse plug-in that contains an embedded version of Worklight Server which simplifies and facilitates the development process.
- Worklight Studio provides a quick and easy way 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

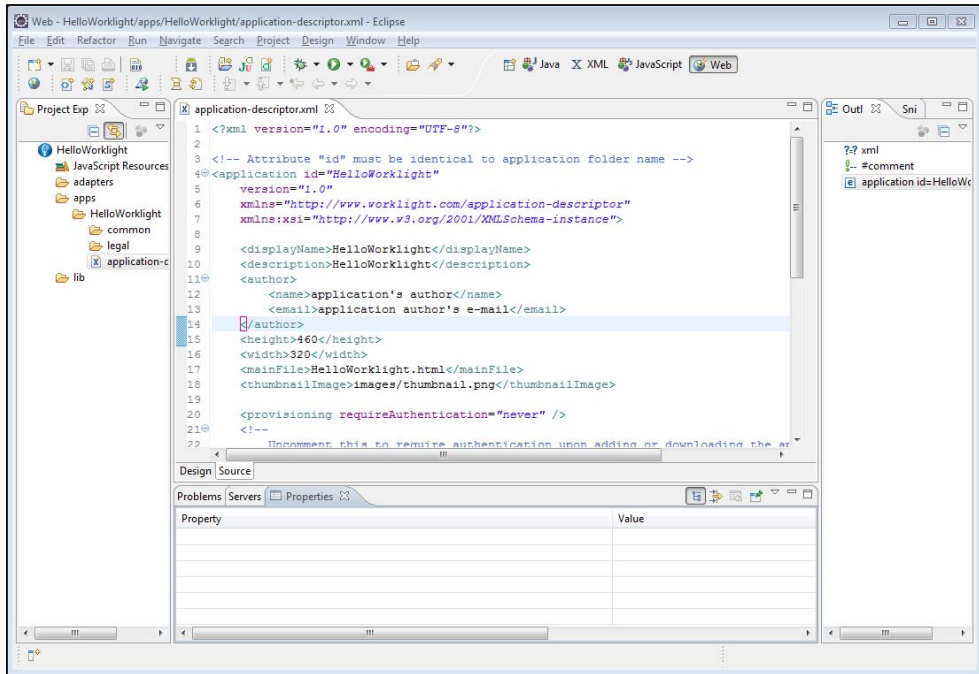
## ***Downloading Worklight Studio***

- Worklight Studio can be found and installed from Eclipse Marketplace (Help -> Eclipse Marketplace)
- Alternatively, from Eclipse, you can add the **Worklight Studio** Eclipse update site, and install Worklight Studio directly from the web.
- See <http://www.ibm.com/developerworks/mobile/worklight.html> for download and installation information.

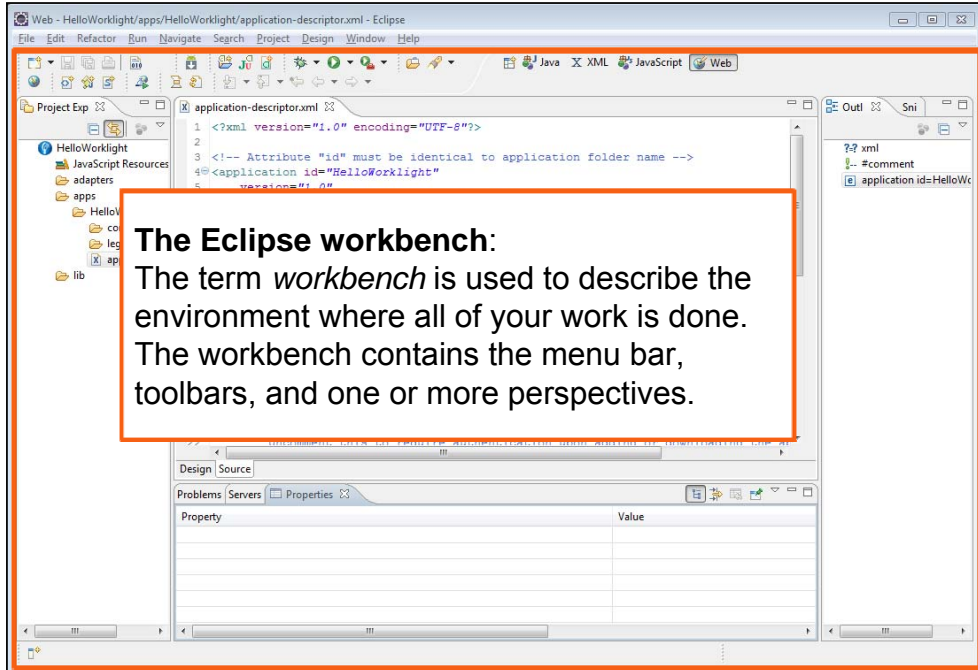
# Agenda

- Requirements
- Installing Eclipse
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# Eclipse Terminology: Workbenches



# Eclipse Terminology: Workbenches



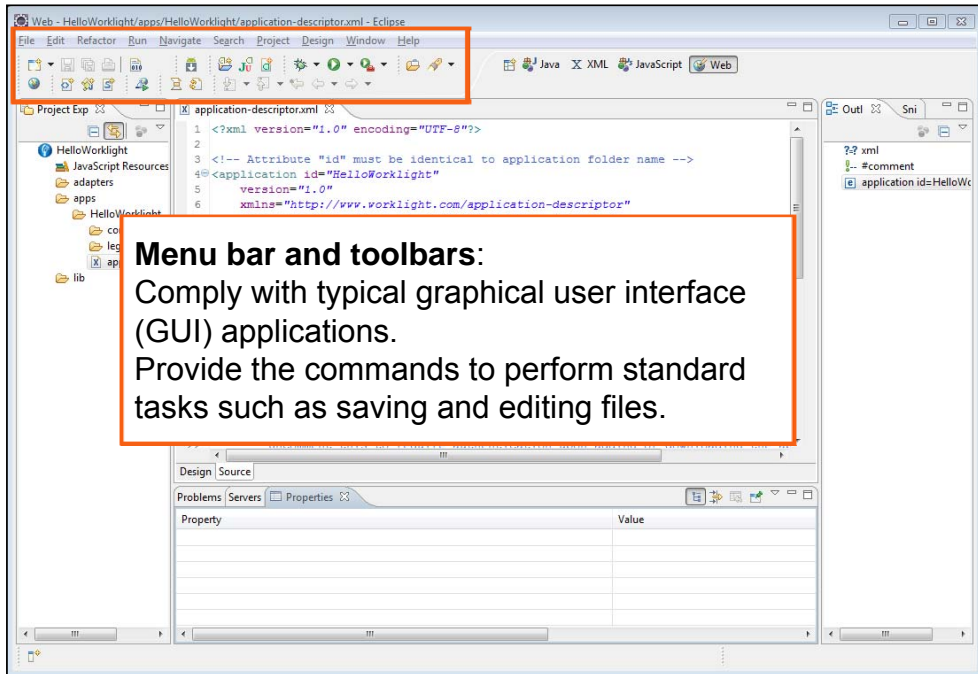
The Eclipse workbench:

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.

```
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" />
```

Property	Value

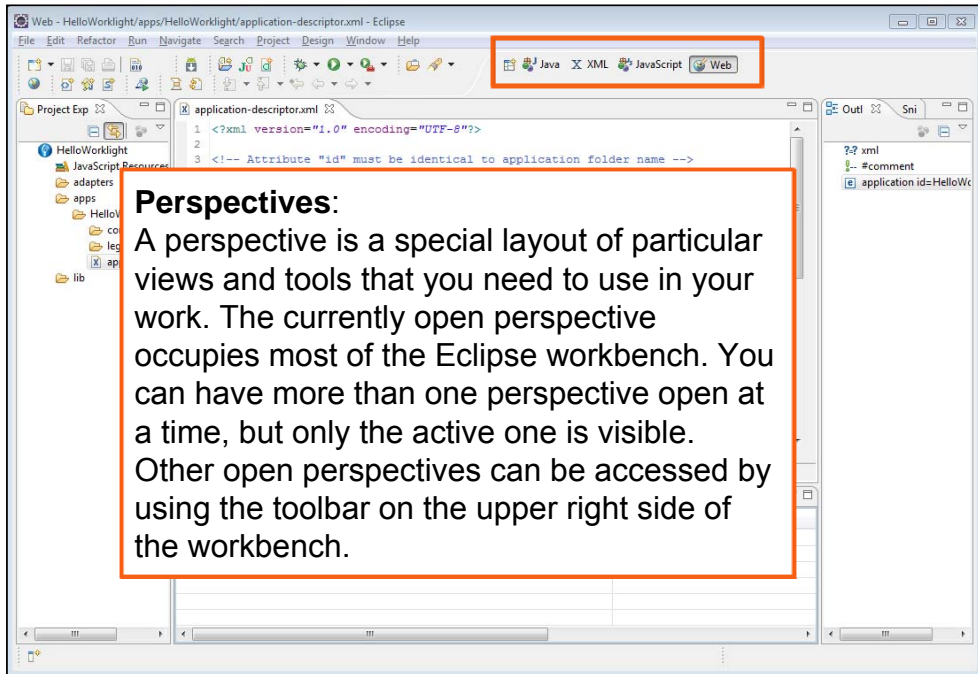
## Eclipse Terminology: Menu bar and Toolbar



**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.

```
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"
```

# Eclipse Terminology: Perspectives



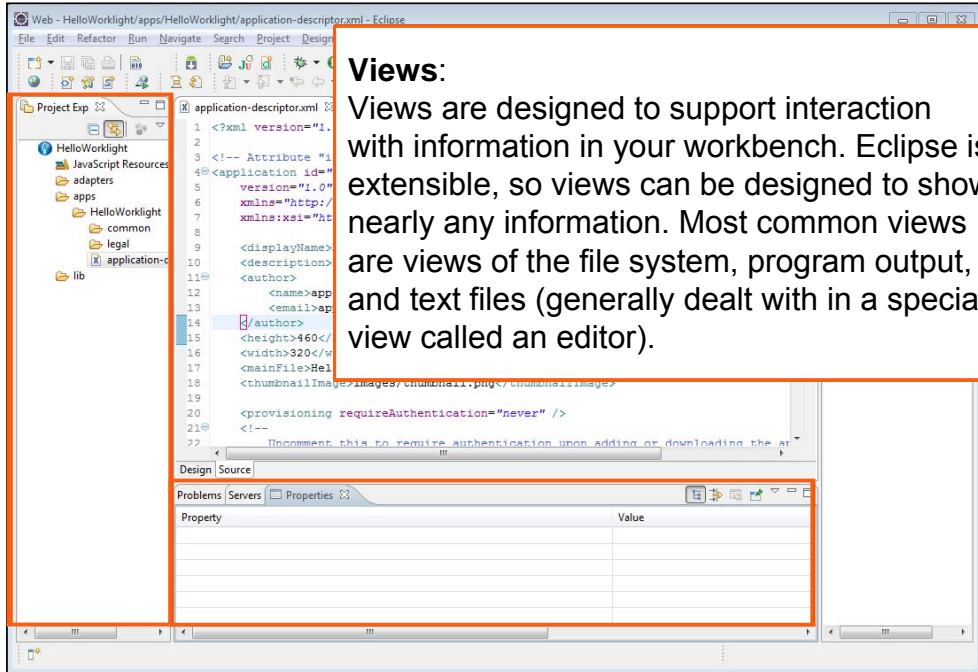
The screenshot shows the Eclipse IDE interface. The title bar reads 'Web - HelloWorldlight/apps/HelloWorldlight/application-descriptor.xml - Eclipse'. The menu bar includes 'File', 'Edit', 'Refactor', 'Run', 'Navigate', 'Search', 'Project', 'Design', 'Window', and 'Help'. The toolbar contains various icons, with a red box highlighting the perspective icons: Java, XML, JavaScript, and Web. The 'Web' icon is currently selected. The Project Explorer on the left shows a tree view with 'HelloWorldlight' as the root, containing folders for 'adapters', 'apps', 'HelloWorldlight', 'components', 'legacy', and 'application'. The main editor area displays the XML file '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 -->
```

The Outline view on the right shows the XML structure with a selected element: 'application id=HelloWorldlight'.

**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



The screenshot shows the Eclipse IDE interface. On the left is the Project Explorer showing a project named 'HelloWorklight' with sub-projects like 'adapters', 'apps', 'common', 'legal', and 'lib'. The main editor displays an XML file named 'application-descriptor.xml' with the following content:

```
1 <?xml version="1.0" encoding="UTF-8" ?>
2
3 <!-- Attribute 'id' is required -->
4 <application id="application-descriptor"
5     version="1.0"
6     xmlns="http://www.ibm.com/xmlns/prod/ibm-application-descriptor"
7     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
8     xsi:schemaLocation="http://www.ibm.com/xmlns/prod/ibm-application-descriptor
9         http://www.ibm.com/xmlns/prod/ibm-application-descriptor-1.0.xsd"
10     <displayName>
11         </displayName>
12     <description>
13         </description>
14     <author>
15         </author>
16     <height>460</height>
17     <width>320</width>
18     <mainFile>HelloWorklight
19     <thumbnailImage>images/thumbnail.png</thumbnailImage>
20     <provisioning requireAuthentication="never" />
21 <!-- Uncomment this to require authentication upon adding or downloading the artifacts -->
22 </application>
```

On the right side, there is a Properties view with a table for properties:

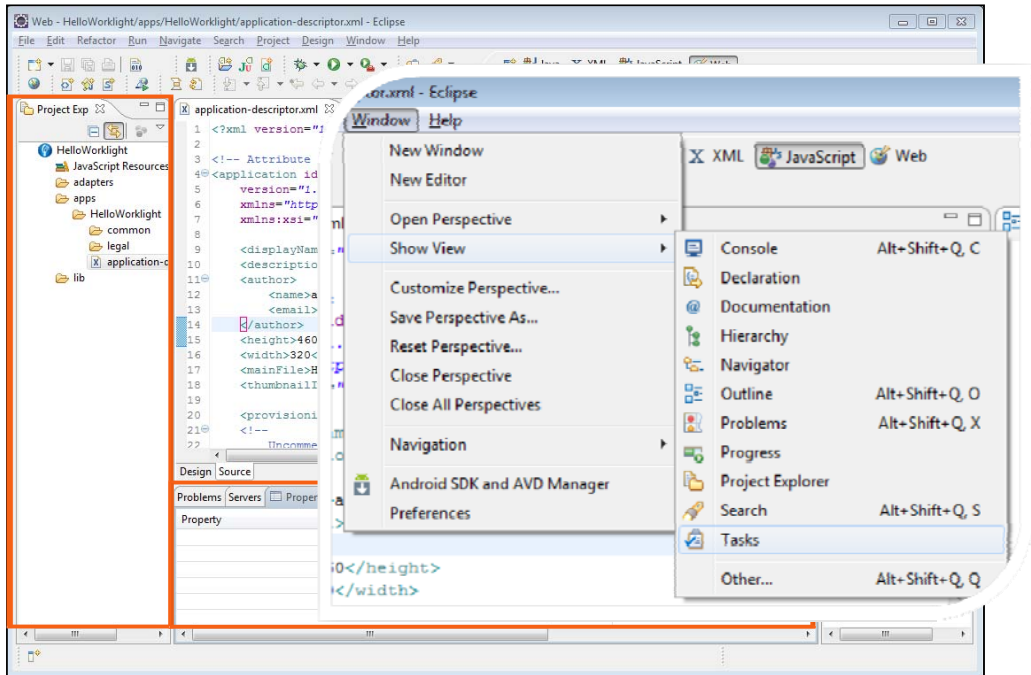
Property	Value

## Views:

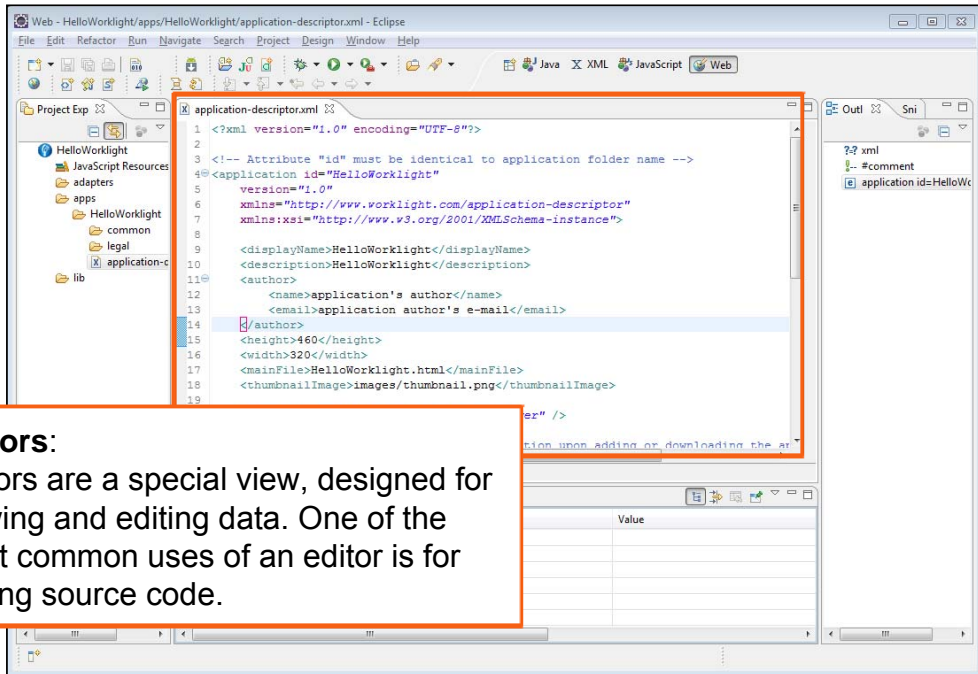
Views are designed to support interaction with information in your workbench. Eclipse is extensible, so views can be designed to show nearly any information. Most common views are views of the file system, program output, and text files (generally dealt with in a special view called an editor).



## Eclipse Terminology: Views (continued)



# 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.vorlight.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 text box in the foreground 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.

## *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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