



Java 核心技术

第二章 Java环境搭建和程序初体验

第二节 Eclipse 安装

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IDE(1)



- 编写程序的工具
 - 记事本/vi: 提供文件编辑功能
 - 增强型记事本: Ultraedit/Editplus/notepad++/Sublime, 提供回退、关键词高亮、批量操作等辅助功能
 - 集成开发环境 (IDE, Integrated Development Environment) : 提供多文件管理、编译、调试等功能

IDE(2)



- IDE集成开发环境

- 相当于一口锅或者一个电饭煲的功能
- 本身没有能源，但可接入能源
- 提高编程操作效率
- IDE之间没有优劣之分
 - 个人习惯
 - 易用程度
 - 是否免费

IDE(3)



- Java IDE
 - Eclipse(市场占有率最高的)
 - NetBeans(Sun官方推荐的)
 - MyEclipse(收费, 基于Eclipse上增加一些辅助插件)
 - IntelliJ IDEA (收费)

IDE(4)

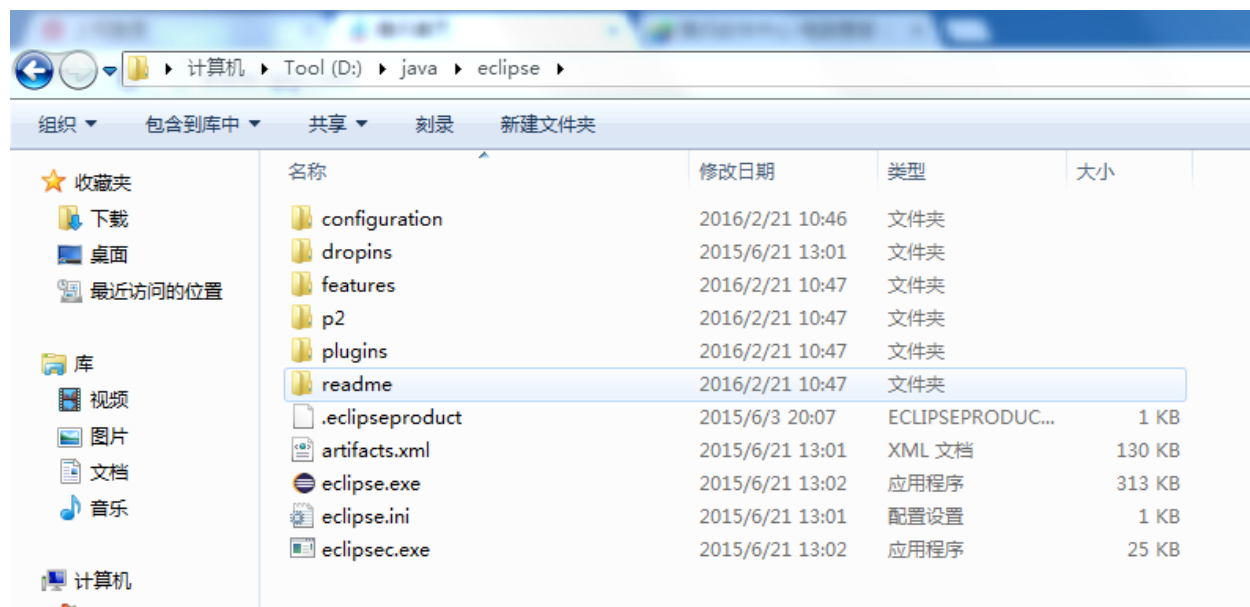


- IDE使用
 - 创建工程
 - 编写/格式化代码
 - 编译/运行
 - 调试
 - 发布

IDE(5)



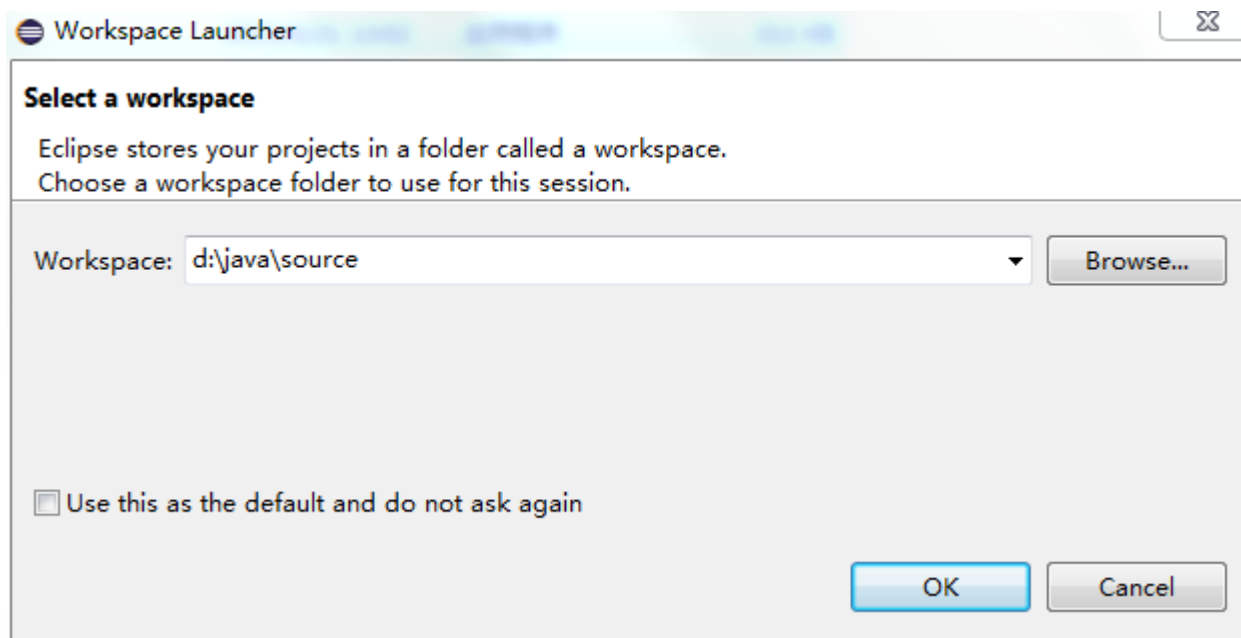
- 下载eclipse的安装包，解压到d:\java\eclipse目录即可



IDE(6)



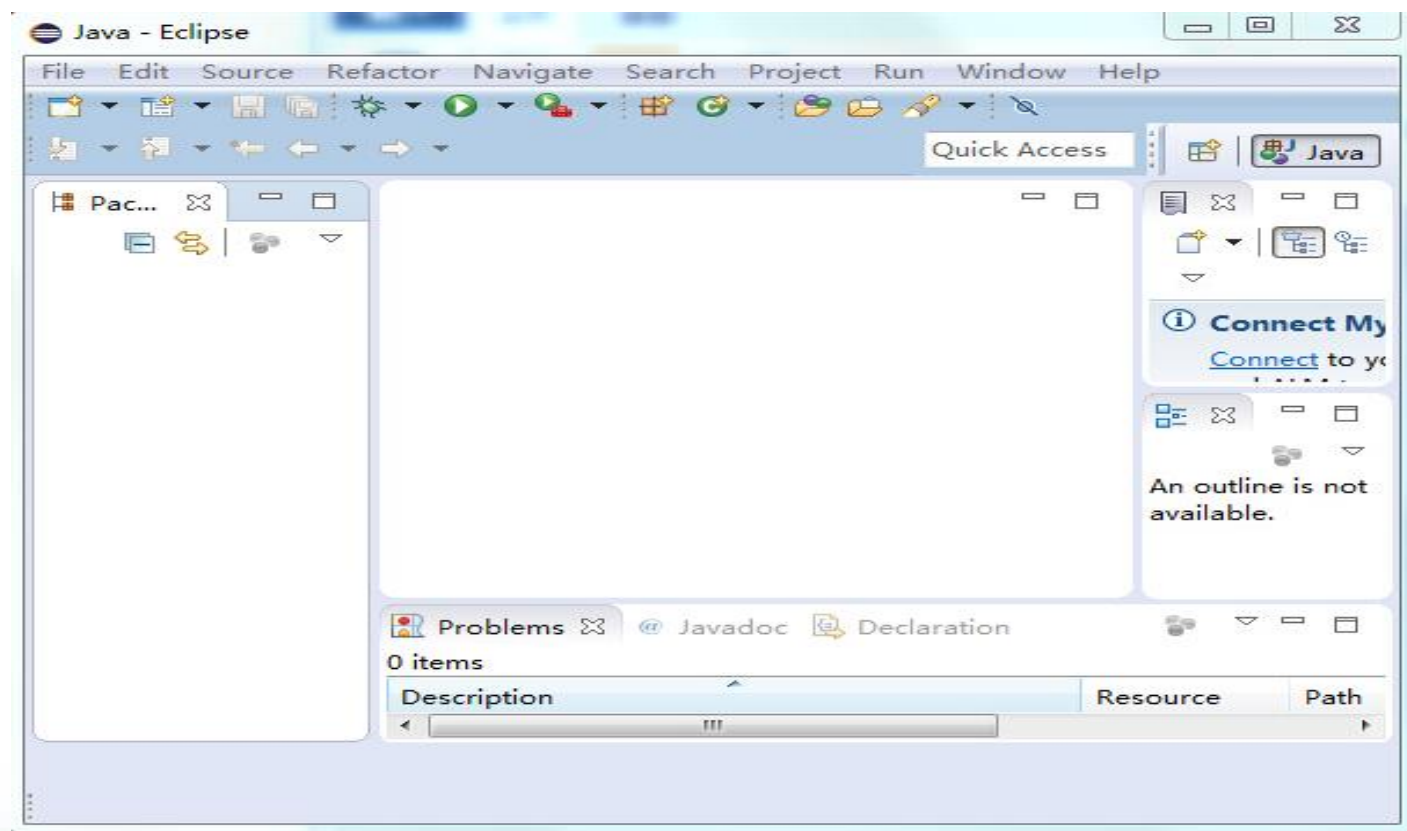
- 双击eclipse.exe, 首先进入工作空间(workspace)配置
 - 一个工作空间可以包含多个project



IDE(7)



- 正常IDE界面



IDE(8)



- 新建一个工程项目 (Java Project): first

The image shows the 'New Java Project' dialog box in an IDE. The title bar reads 'New Java Project'. The main heading is 'Create a Java Project' with a subtitle 'Create a Java project in the workspace or in an external location.' and a folder icon. The 'Project name' field contains 'first'. The 'Use default location' checkbox is checked, and the 'Location' field shows 'D:\java\source\first' with a 'Browse...' button. Under the 'JRE' section, 'Use an execution environment JRE:' is selected, with 'JavaSE-1.8' chosen from the dropdown. Other options are 'Use a project specific JRE:' (set to 'jdk1.8.0_45') and 'Use default JRE (currently 'jdk1.8.0_45')' with a 'Configure JREs...' link. The 'Project layout' section has 'Create separate folders for sources and class files' selected, with a 'Configure default...' link. The 'Working sets' section has 'Add project to working sets' unchecked, and the 'Working sets' dropdown is empty with a 'Select...' button. At the bottom are buttons for '?', '< Back', 'Next >', 'Finish', and 'Cancel'.

New Java Project

Create a Java Project
Create a Java project in the workspace or in an external location.

Project name: first

☒ Use default location
Location: D:\java\source\first [Browse...](#)

JRE

☒ Use an execution environment JRE: JavaSE-1.8
☐ Use a project specific JRE: jdk1.8.0_45
☐ Use default JRE (currently 'jdk1.8.0_45') [Configure JREs...](#)

Project layout

☐ Use project folder as root for sources and class files
☒ Create separate folders for sources and class files [Configure default...](#)

Working sets

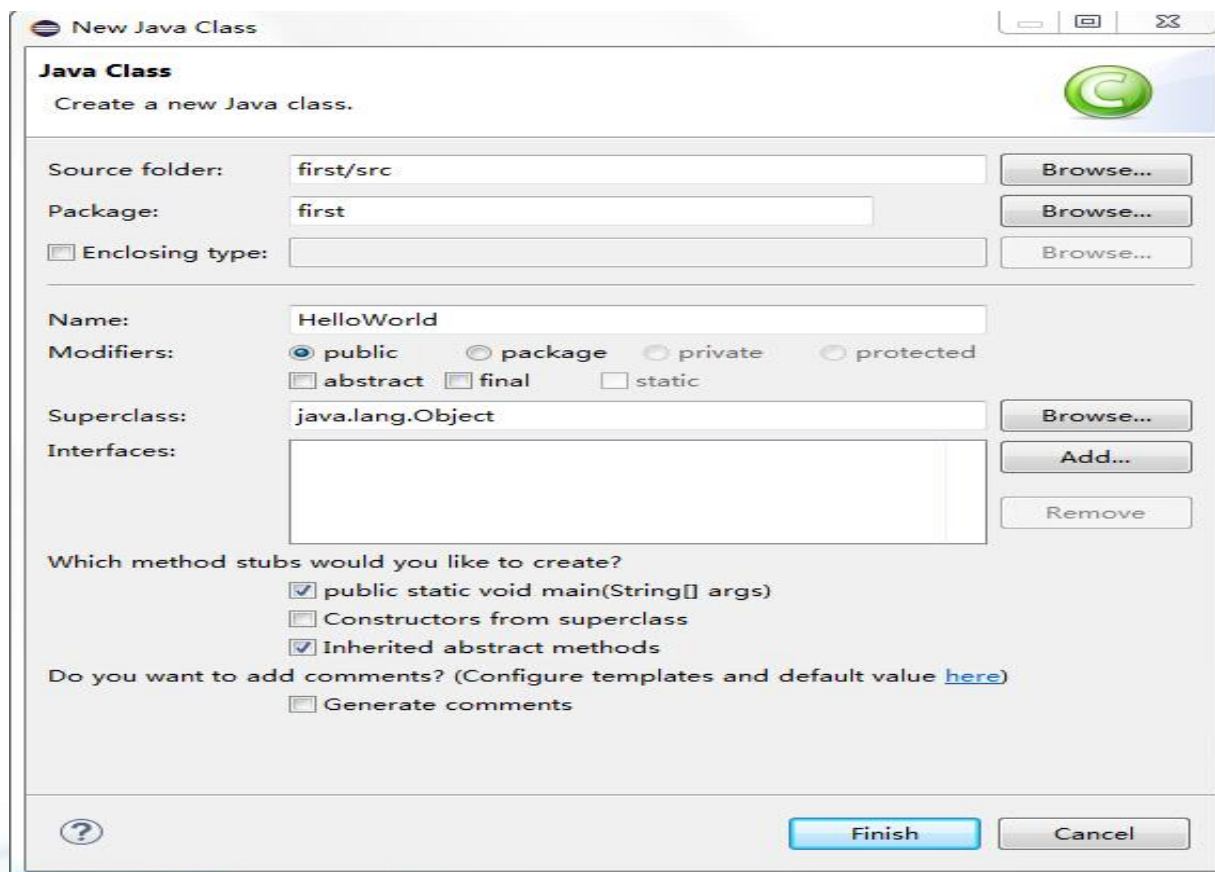
☐ Add project to working sets
Working sets: [Select...](#)

? < Back Next > Finish Cancel

IDE(9)



- 右击first项目的src目录，新建一个class



IDE(10)



- 输入HelloWorld程序内容

A screenshot of the Eclipse IDE interface. The title bar reads "Java - first/src/first/HelloWorld.java - Eclipse". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar contains various icons for file operations and development. The Package Explorer on the left shows a project named "first" with a sub-package "src", which contains a sub-package "first" and a file "HelloWorld.java". The main editor window displays the code for "HelloWorld.java".

```
1 package first;
2
3 public class HelloWorld {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         System.out.println("Hello world!");
8     }
9
10 }
11
```


IDE(11)



- 总结

- 对于大多数开发者，使用IDE效率更高
- IDE没有优劣之分，根据自身和团队能力选择
- IDE使用可以精通，但不能忘记Java原始的编译和运行方法



谢谢!