# How to install JADE on your computer

Print and read this document, and use it as a checklist. There are several steps:

1. Obtain a license to install JADE on your computer
2. Install JADE
3. Optionally Install the Help system documentation files
4. Install the text book's resource folders into \...\Jadebook

For details, see the following sections.

## First, obtain a license to install JADE on your computer

1. Paste https://www.jadeworld.com/developer-center/download-jade into your browser and then press ENTER.

   If the system discovers that you have not yet got a free JADE developer license, it will display a form to enter data for a license.

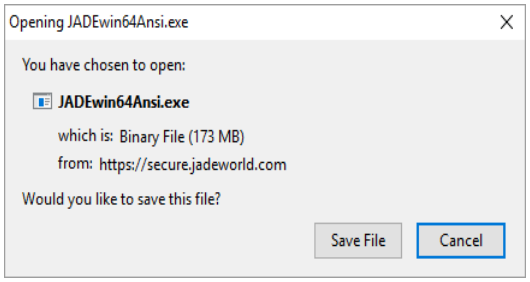
2. Click the button to request the license.

Shortly you will be notified of your license name (which is case-sensitive) and license key (*not* case-sensitive). You can now install JADE.

## Secondly, install JADE on your computer

The steps in this instruction are based on the Windows 10 operating system and the Mozilla Firefox browser.

1. Paste https://www.jadeworld.com/developer-center/download-jade into your browser and then press ENTER. This time you will be led to the file called Full JADE 7.1 for Windows 64 bit (ANSI) (176mb).

   In a Firefox browser, click on it and see from the screen at the right that JADEwin64Ansi.exe is ready to be installed. (Other browsers may initiate the downloading in a different manner; for example, by starting it automatically.

2. Click the **Save File** button, and when the file has been saved to your machine (that is 'downloaded'), click the download toolbar icon in your Firefox browser. (In a Chrome or Edge browser, double-click on the **JADEwin64Ansi.exe** download in the notification bar at the lower left.)
3. The first screen of the JADE 7.1 InstallShield Wizard is next displayed. Go through the wizard screen by screen.
4. On the 'Installation Type' screen, select the option to install a "**Fresh copy**" and then click **Next >**.
5. Select the option for a full "**Development**" system and then click **Next >**.
6. Enter the license name and the license key that you received in response to step 2 of the instruction under "Obtain a license to install JADE on your computer ", earlier in this document, and then click **Next >**.
7. When prompted to select installation folders, select **c:\Jade71** as the location for JADE and then click **Next >**.

   The process will then propose "**JADE**" as the name of the program folder. That's OK, but change it to **Jade71** and then click **Next >**.

8. Click **Finish**. Installation then takes place.

9. We see the JADE ReadMe.txt file displayed. Read it or close it.
10. 'JADE' is a *family* of programs. The shortcuts to the several programs that were installed may be viewed by clicking the path **Start | All apps | Jade71** in the Windows pane at the lower left of your monitor under Windows 10 (or **All programs**, under Windows 7).

    Until the last chapters of the book, we will be using only the *single user* option in the JADE program family. This is the one simply labelled **JADE**, which runs **Jade.exe**.
11. Program install procedures usually create a program shortcut (an 'icon') on the desktop. Curiously, the JADE install process does not, but you can easily create one.

    Under Windows 10, follow again the path **Start | All apps | Jade71 | JADE** and then:

    a. Right-click on the **JADE** shortcut, and then select **More** from the popup menu.

    b. Select Open file location from the submenu

    c. In Explorer, right-click on the selected **JADE** short cut, click on the **Send to** menu item to display a submenu, and then select **Desktop (create shortcut)**

    Under Windows 7, follow the path **Start | All programs | Jade71 | JADE** and then:

    a. Right-click on the **JADE** shortcut

    b. Click on the **Send to** menu item, to display a submenu

    c. From the submenu, select **Desktop (create shortcut)**

    There is now a program shortcut on your desktop for launching JADE. Our preference is to edit the title beneath it from **JADE** to **JADE71 Single User**.[1]

    **Note:** JADE's property parameters are displayed in the desktop shortcut only if you "send" the shortcut to the desktop from the Windows Start menu; *not* if you CTRL+drag it from there. However, the parameters *are* retained and visible if you CTRL+drag the shortcut icon to your desktop from Explorer.
12. Test-launch JADE by double-clicking on that shortcut, then on **OK**. You need not enter anything in the password box. Click **OK**.
13. Close the 'Tip of the Day' box and the Start dialog.
14. Read the 'Feel Free …' page, but check 'Do not show at Start-up' and then **Close**.
15. Now that we know that JADE launches successfully, select **File | Exit**.

## What folders were installed?

The content of the actual program folders that were installed under **c:\Jade71** may be inspected with Windows Explorer; for example, look briefly inside the **bin** and **system** folders.

- bin (containing executable binary files including the unchanging JADE binaries)
- crashlogs
- documentation (containing only a few files such as release notes and upgrade instructions)
- examples
- include
- library
- logs (supports users by enabling roll-forward data recovery in the event of a system failure)
- ProcessDumps
- reportwriter

[1] If you examine the new shortcut (right-click on it; on **Properties** and then **Shortcut**), you will find all of JADE's necessary parameters entered. We look at the options they can select in the chapter on 'Deployment'.

- system (contains 'the repository' – that is all of your JADE schemas and their own databases)
- temp
- wsdl (contains files to support Web services)

If you will be working only on the computer laboratories at a tertiary institution, you may not need to install anything if it has been pre-installed on the laboratory work-stations. However, if you wish to work in parallel at home, also install JADE on your home computer.

## Thirdly, optionally install the help and documentation files

The Help system is invaluable. It can be based on HTML5 (web) or on PDF (print). The PDF option will need Adobe Reader installed, which is used by JADE to access the Help system in PDF format.

If you do not want to use the default web (HTML5) format Help system, download and install the PDF version format of the online documentation. If your computer lacks Adobe Reader, which is used by JADE to manage the Help system in PDF format. Adobe Reader which is available as a free download from www.adobe.com.

1. To add the JADE documentation in Portable Document Format (PDF) to the **documentation** folder created during the full development installation, download the full JADE product information library in PDF (print) format from https://www.jadeworld.com/developer-center/resource-library/
2. Click the JADE 7.1 - Windows self-installing documentation package (51mb) URL, to download all files.

The self-installer will install the files into the correct directory; that is, **c:\Jade71\documentation**.

## Finally, install the text's resource folders into \...\Jadebook

The resource files, such as demonstration schemas, were created for the text book.

1. From https://www.jadeworld.com/developer-center/learn-jade, select the *Resource files for text book* option to download scores of files created by the author and friends of the text book. They are usually specific to the text, which frequently refers to them.[2]
2. Click the **Save File** button, and when the file has been saved (downloaded) to your machine, click the download toolbar icon in a Firefox browser (or executable in your notification bar at the bottom of your browser in other browsers), and then select the downloaded **Jadebook** by double-clicking in it.
3. You will be asked where you want to put the folder called **\Jadebook**. The default location is **c:\Users\<user-name>\Jadebook**.[3] This corresponds to **<*user-name*>\Documents\Jadebook**.
4. You are free to click the Browse button and navigate to a different location. For example, you might navigate to **c:\Users\<*user-name*>\Courses.**

   Be sure to append **\Jadebook** so that it reads **c:\Users\<*user-name*>\Coursework\Jadebook**, and then click **Finish**.

The location of the folder corresponding to **\Jadebook** will also be noted in the **JadeBook.ini** file; that is:

```
[JadeBookAt]
DataAt = c:\Jadebook
VideosAt = c:\Jadebook
```

This information is consulted by several of the demonstration programs so that they can access the media stored there.

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[2] For example, the text's index indexes all of the programs that are about to be put into the **\Demos** folder.

[3] It may be placed elsewhere. Vista and Windows 7 may incline towards placing this folder at **c:\Users\Public\Public documents\Jadebook**, or some similar path. Wherever it is, the installation will create a file **c:\Windows\JadeBook.ini** to point to its location.

## Non-text book resources on the JADE web site

The Jade Software Corporation web site provides advanced resources for you to explore, but they are not referred to by the text book.

- Example Schemas (JADEExamples.exe), that you can download and extract to a destination of your choice, from https://www.jadeworld.com/developer-center/learn-jade.

  These examples include the Erewhon demonstration system, which is a large JADE example, created by Jade Software Corporation. It is a rich source of advanced knowledge and is the firm's (Jade's) own 'demonstration-bed" for its techniques. The *Erewhon Demonstration Reference* document is available at either of the following.

  https://www.jadeworld.com/developer-center/resource-library/white-papers/

  https://www.jadeworld.com/docs/jade-71/Default.htm

- The JADE tutorials, at https://www.jadeworld.com/developer-center/learn-jade/tutorials/.
- The JADE Developer's course, at https://www.jadeworld.com/developer-center/learn-jade.
- The White Papers are written by JADE experts to explain particular technical issues. They are fascinating and useful, as you progress in your abilities with JADE. To view them, see either of the following.

  https://www.jadeworld.com/developer-center/resource-library/white-papers/

  https://www.jadeworld.com/docs/jade-71/Default.htm

## Contact and helpdesk support for students

Jade Software Corporation maintains a primary web site at www.jadeworld.com. There is much interesting material there, including case studies of industrial installations.

There is a forum web site at http://forums.jadeworld.com/, within which students may post questions and receive answers from the JADE community.

Alas, the JADE Free Developer license for tertiary students does not grant you access to programming help, tuition from the author of the text book, or from the JADE Support desk. Much as they would wish to help you, it is logistically impossible.

Faced with a baffling problem? Solutions, in the following order can be:

1. Your first source of help is yourself, via your text. Try the index! Try the chapter on debugging.
2. Try the extensive Help system built into JADE. (As with all computer help systems, the hardest task is knowing what term to search for. Read \Assistance\The Help System.pdf.)
3. Search the **\Demos** schemas for sample solutions.
4. Ask your tutor.
5. Ask your lecturer or course supervisor, who *does* have access to JADE Support.

## Note for tertiary institution network administrators

1. Assistance is available from JADE Software Corporation in setting up and optimizing a computer laboratory installation of JADE.

   For example, in a tertiary institution's student computer network, the individual students' **\system** folders will probably be located in their personal file-storage volumes, such as their **P:** drive.

2. In our experience, it may be necessary to allocate more disk space to students using JADE (especially if they are slow to delete other files). If students report outages of storage, they may be creating very large log files. Check the initialization file (jade.ini) and reduce the size of log files.

3. The files in **\Jadebook\DataFiles** assume that the files in **c:\Jadebook** are *shareable* and *read-only*. (In early years, they were *read-write*, which was unwise.) Read-only protects the master copies from casual alteration or overwriting, but means that a student must copy a data file to his or her personal folder before reading it or altering it.

**Note:** The "Backup parameters" section of the text book (Chapter 32) describes parameter values that can be set for log files in the jade.ini file.