

How to Install (then Test) the Netbeans Bundle at Home (for CIS 3344)

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1. Overview

As you can see from the Contents above, in this lab, you will install the Netbeans bundle and then test that it works. The “Netbeans bundle” is several different pieces of software that are pre-configured to work together. The best thing about installing the bundle is that you do not have to mess around with configuration settings or trying to get each piece of software to recognize the others. It just works. The Netbeans Bundle includes:

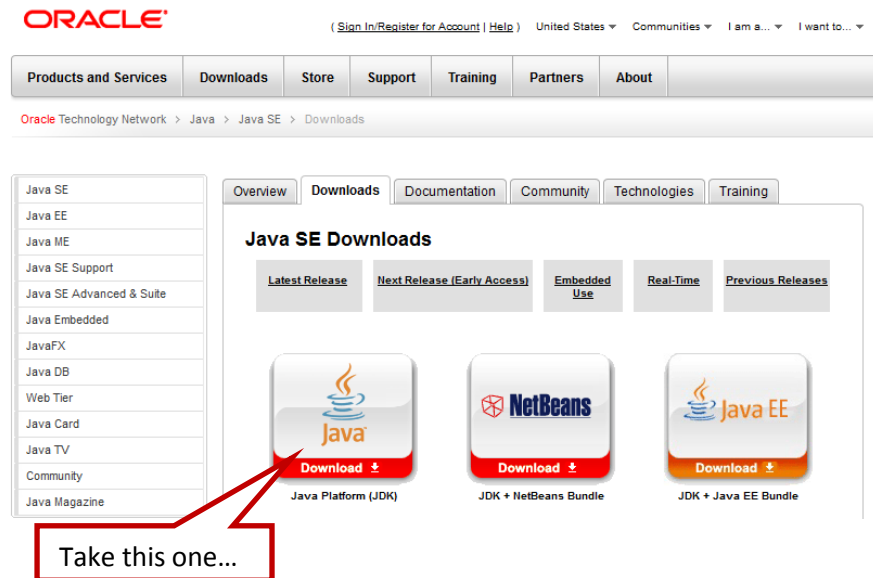
- Netbeans (open source java editor and compiler),
- Apache (open source web server software), and
- Tomcat/Glassfish (two different open source JSP servers) – this is needed later in the semester when we will create JSP Web APIs.

If you do not already have a java SDK (software development kit) installed, you will have to do that first. It is very important (for your success in this course) to be sure that you have a good working development environment at home!

2. *Install or update your java SDK*

First, you need a recent version of the java SDK (software development kit), the SE version (standard edition). If you don't already have one, google "download java SDK"

<http://www.oracle.com/technetwork/java/javase/downloads/index.html> and install the plain SE JDK for your operating system. Do not select the NetBeans bundle from this site, because that's not what we need.



3. Install Netbeans Bundle

- Google “download netbeans” to get to: <http://netbeans.org/downloads/>
- Select the latest version that offers all technologies (right bottom download) because we will need Glassfish later in the semester.

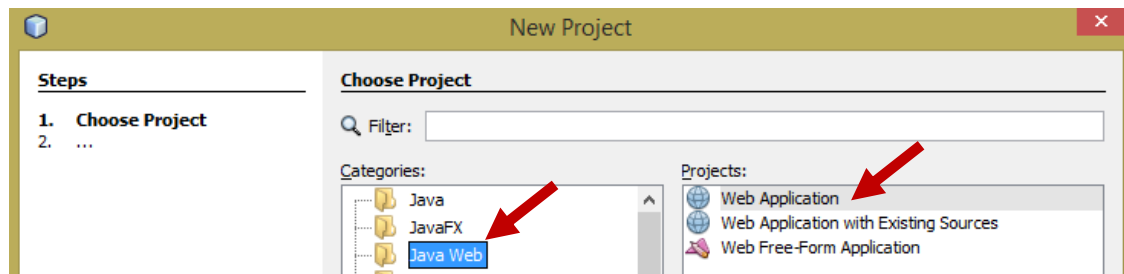
NetBeans IDE Download Bundles					
Supported technologies *	Java SE	Java EE	C/C++	PHP	All
NetBeans Platform SDK	•	•			•
Java SE	•	•			•
Java EE		•			•
Java ME					•
Java Card™ 3 Connected					•
C/C++			•		•
Groovy					•
PHP				•	•
Bundled servers					
GlassFish Server Open Source Edition 3.1		•			•
Apache Tomcat 7.0.11		•			•
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Take this one...

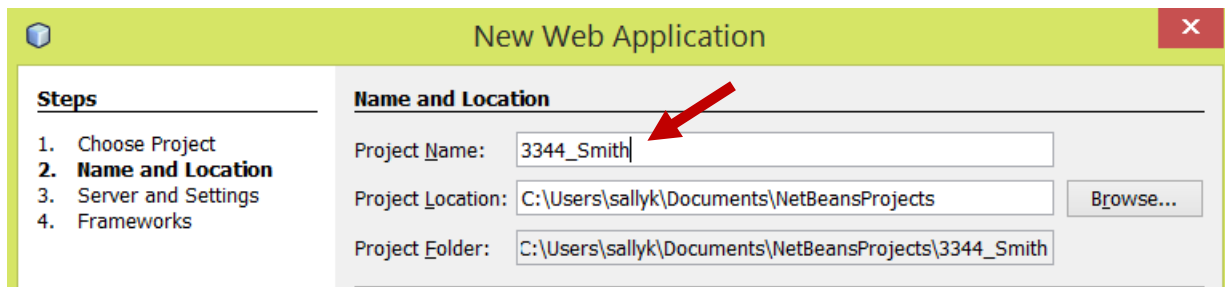
4. Test your Netbeans Installation

After installing Netbeans, test to make sure it works by creating a simple Web Application project as described below.

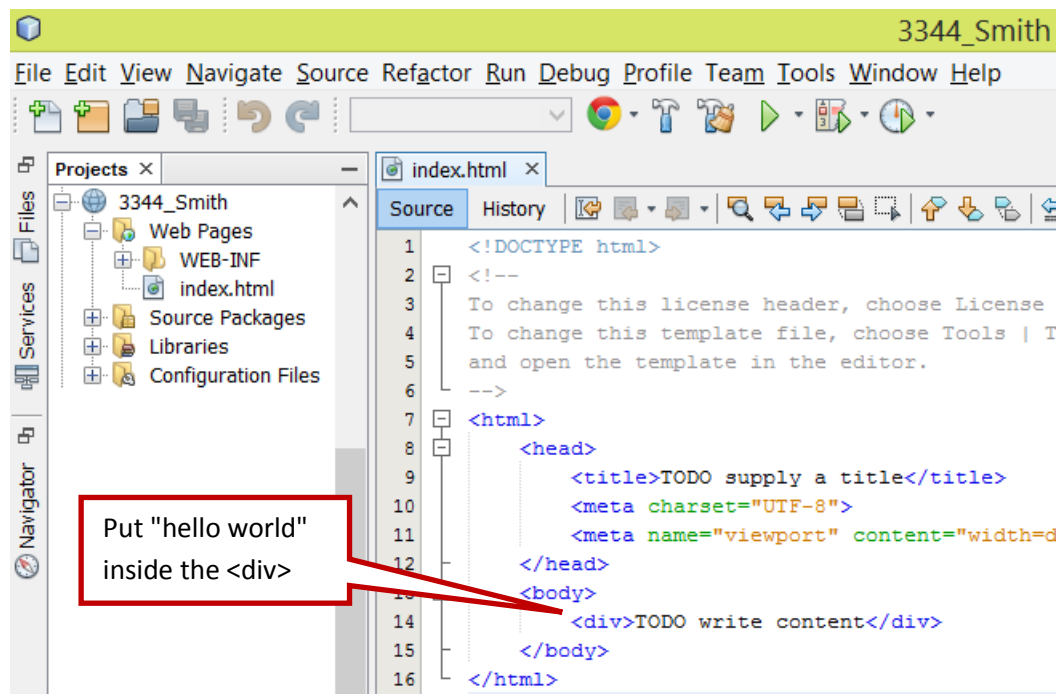
- Click on "File – New Project"
- Under Categories, select “Java web”
- Under “Projects” select “Web Application”.



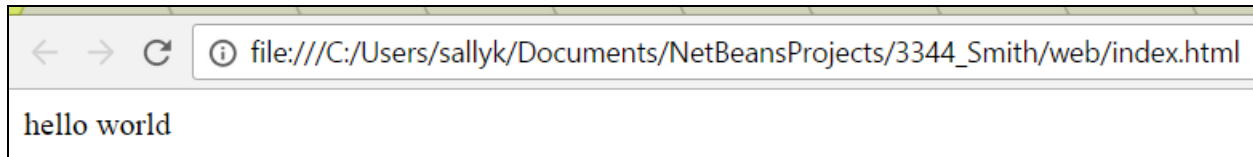
- Type in a project name, for example, "3344_YOURNAME", then **accept all other defaults**, clicking Next, until the wizard is finished.



- Once the wizard is done, you should see your new web application project in the NetBeans's project pane (as shown below).
- If you open up that project, you'll see a folder called "Web Pages" with a file index.html inside. This shows the simplest HTML tags (and structure) that you need for web page.
- In the edit area, replace the text that says "TODO write content" with "Hello World".

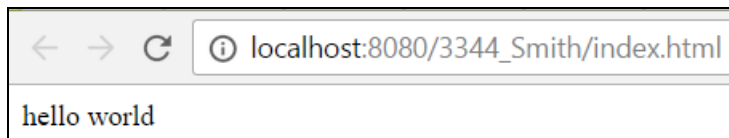


Save your file, then **right click** anywhere in the edit area and select **"View"**. This should open up a browser that has the file name and path in the address bar. You should see "hello world" in the body of the browser window.

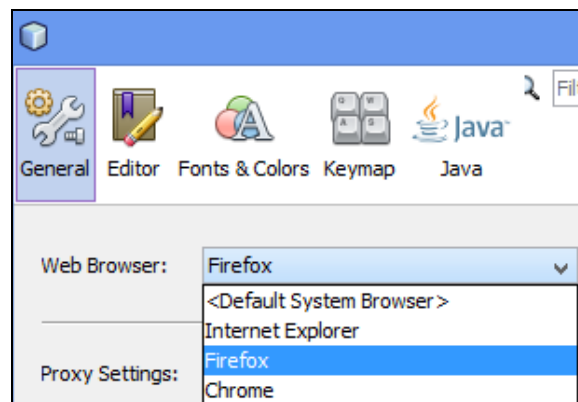


If all you wanted to do is edit and view HTML, you could use any editor (including NotePad) and any browser. You could double click on your html file from File Explorer (would bring up the browser like shown above), then edit your file, save it, then refresh your browser.

However, to take advantage of the HTTP protocol, **right click** (anywhere in edit area) and select **"Run File"**. This will invoke Apache (web server software that was installed on your PC/MAC when you installed the bundle) to "serve up" your web. When you "run" (instead of "view") your file, you'll see a web address that is more like what you are used to seeing when you browse the internet: a domain name, (not necessarily a port number like 8080), but then a file name.



Even though Firefox may not be your favorite browser, Firefox provides better syntax error checking when you right click a page and "View Source". Firefox will show syntax errors in red font (from "View Source"). So (for the first couple of labs) click on "Tools – Options" and make sure that Firefox is the browser that NetBeans will use to test your pages.



Once we begin coding in JavaScript, you'll want to change the default browser to Chrome (because it has a built in debugger).