Brooklyn College

# Using stdlib within Netbeans

Lawrence Goetz 10/16/2018

# Contents

Downloading stdlib	2
Sample program	9
Adding stdlib to your project	10

## **Downloading stdlib**



% java Scale mandrill.jpg 298 298







#### **Q + A**

Q. Can I use your code in my project?

A. Our library stdlib.jar is released under the GNU General Public License, version 3 (GPLv3). If you wish to license the code under different terms, please contact our publisher to discuss.

Q. If I use a named package to structure my code, the compiler can no longer access the libraries in stdlib.jar. Why not?

A. The libraries in stdlib.jar are in the "default" package. In Java, you can't access classes in the default package from a named package. If you need to use our libraries with a named package, you can use the packaged version stdlib-package jar.

Warning: if you are taking Princeton COS 126, you must use the default package verison of gur libraries to facilitate grading.

Last modified on September 11, 2017.

Copyright © 2000–2018 Robert Sedgewick and Kevin Wayne. All rights reserved.

https://introcs.cs.princeton.edu/java/stdlib/

Select to download the stdlib-package.jar.

	es			• • Searc	n NetBeansPr	ojects		
rganize 🔻 Share w	vith ▼ Burn New folder							
Favorites 📃 Desktop	Documents library NetBeansProjects				Arra	nge by:	Folder	•
〕 Downloads	Name	Date modified	Туре	Size				
Stropbox	AddNum	8/9/2017 11:23 AM	File folder					
Recent Places	button	4/26/2017 5:00 PM	File folder					
Goetz	Counter	8/10/2017 4:17 PM	File folder					
Jt 🚛	HelloWorld	8/10/2017 4:17 PM	File folder					
liberries	HTML5Application	9/20/2016 11:38 AM	File folder					
Documents	HTML5Application1	2/17/2017 12:07 PM	File folder					
Music	HTML5Application2	2/17/2017 12:08 PM	File folder					
Initial	J Mobile	9/20/2016 11:38 AM	File folder					
Videos	🌗 PayCheck	1/13/2017 1:25 PM	File folder					
I VIGEOS	🌗 RightTriangle	10/16/2018 4:23 PM	File folder					
	🌗 sample	1/12/2017 4:57 PM	File folder					
Local Disk (C)	🌗 speech	4/25/2017 5:28 PM	File folder					
	🌗 Test	8/15/2017 4:35 PM	File folder					
Network	📓 stdlib-package.jar	10/16/2018 4:21 PM	Executable Jar File	152 KB				
14 items								

Place the <u>stdlib-package.jar</u> in your NetBeansProjects folder.

RightTriangle - NetBeans IDE 8.2		
<u>File Edit View Navigate Source Refactor Run Debug Profile Team</u> To	ols <u>W</u> indow <u>H</u> elp	Q - Search (Ctrl+I)
Image: Second	Apply Diff Patch Di <u>f</u> f Add to Favo <u>r</u> ites Open in Terminal	icjava × ■ -   Q, 7, 27 = 1, 19 % % %   21 21   ●     41 = 18
Nojects 🛄 5	<u>A</u> nalyze Javadoc Add to Palett <u>e</u> Create/Update Tests	is license header, choose License Headers in Project Propertie is template file, choose Tools   Templates template in the editor.
	Internationalization	riangle;
Navgator	<u>N</u> etBeans Platforms Ant <u>V</u> ariables	<pre>ghtTriangle {     ic void main(String[] args) { </pre>
	Libraries Servers Cloud Providers Templates DTDs and XML Schemas Palette Plugins Options	<pre>L0 Vold main(string[] args) {     .square(0.5, 0.5, 0.5);     .setPenColor(StdDraw.BLUE);     .line(0.5, 0.5, 0.9, 0.5);     .line(0.5, 0.8, 0.5, 0.8);     .line(0.5, 0.8, 0.5, 0.5);     .circle(0.7, 0.65, 0.25); </pre>
	righttriangle.RightTriangle >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	0) main ≫ 82
🗗 🐻 Output Analyzer		1) 16:29 INS

From the Tools menu, select Libraries.



#### Select to add a New Library

New Library	×
Library <u>N</u> ame:	stdlib
Library <u>T</u> ype:	Class Libraries
	OK Cancel

Give it the name **stdlib** and then press OK.



Select the stdlib from the Libraries panel and then select Add JAR/Folder.

Look in: 🕕 NetBeansProjects 🔹 🍺 📂 🛄 🗸
Recent Items AddNum button Counter HelloWorld
Desktop MTML5Application Desktop MTML5Application2 Mobile
My Documents PayCheck Sample Sample
Computer 1 Computer 1 Comput
Network     File name:     stdlib-package.jar     Add JAR/Folder       Files of type:     Classpath Entry (folder, ZIP or JAR file)     Cancel

Select the stdlib-package.jar file and press Add JAR/Folder.

Ant Library Manager					
Libraries location: Global Libraries		•			
Libraries:					
Hamcrest 1.3 Hibernate 4.3.x Hibernate 4.3.x Modelgen Hibernate 4.3.x(JPA2.1) Java Tree API JAX-WS 2.2.6 JAXB 2.2.5 JAXB-ENDORSED JUnit 4.12 JWS Ant Tasks MySQL JDBC Driver Persistence (JPA 2.1) Persistence JPA2.1 PostgreSQL JDBC Driver Spring Framework 3.2.7 Spring Framework 4.0.1 stdlib Swing Layout Extensions TestNG 6.8.1	4 III >	Library Name: stdlib Classpath Sources Javadoc Library Classpath: C:\Users\Staff\Documents\NetBeansProjects\stdlib-pack Add JAR/Folder Add URL Remove Move Up Move Up Move Down			
New Library Remove					
		OK Cancel Help			

### Press **OK**.

That's it. You have added the stdlib to your Global Libraries. This will allow you to add the stdlib to any project you are working on.

## Sample program

```
package righttriangle;
public class RightTriangle {
    public static void main(String[] args) {
        StdDraw.square(0.5, 0.5, 0.5);
        StdDraw.setPenColor(StdDraw.BLUE);
        StdDraw.line(0.5, 0.5, 0.9, 0.5);
        StdDraw.line(0.9, 0.5, 0.5, 0.8);
        StdDraw.line(0.5, 0.8, 0.5, 0.5);
        StdDraw.circle(0.7, 0.65, 0.25);
    }
}
```



Notice how there are errors on line 12-17 for StdDraw. That class is part of stdlib. We need to add that to our project.

# Adding stdlib to your project



In your project, **right click** on the **Libraries** menu and select **Add Library**.

Add Libra	iry		×
Available Lib	raries:		
2	hipernate 4.5.X Modelgen		
	Java Tree API	^	<u>C</u> reate
	JAXB 2.2.5		
	JAXB-ENDORSED		
	JAX-WS 2.2.6		
	JUnit 4.12		
	JWS Ant Tasks		
	MySQL JDBC Driver		
	Persistence (JPA 2.1)		
	Persistence JPA2.1		
	PostgreSQL JDBC Driver	=	
	Spring Framework 3.2.7		
	Spring Framework 4.0.1		
	stdlib		
	Swing Layout Extensions		
<b></b>	TestNG 6.8.1	Ŧ	
	Add Library		Cancel
		_	

Select the stdlib and then select Add Library.

You must include the import statement below:

# import edu.princeton.cs.introcs.\*;



The errors on 12-17 have disappeared. Now you are ready to run your project.



The results from running your project using stdlib.