

Intro to Swing

Using Java Swing

Today's Overview

Git Exercise

Swing basics

Swing Exercise

More Downloads!!

Get the latest material

```
shabbir@shabbir-Aspire-S3-391: ~/ecse321/ecse321tutW16
shabbir@shabbir-Aspire-S3-391:~$ cd
shabbir@shabbir-Aspire-S3-391:~$ cd ecse321/
shabbir@shabbir-Aspire-S3-391:~/ecse321$ cd ecse321tutW16/
shabbir@shabbir-Aspire-S3-391:~/ecse321/ecse321tutW16$ ls -la
total 2076
drwxrwxr-x 3 shabbir shabbir  4096 Jan 12 15:53 .
drwxrwxr-x 4 shabbir shabbir  4096 Jan 12 15:58 ..
-rw-rw-r-- 1 shabbir shabbir 893368 Jan 12 15:53 01-Installing Software.pdf
-rw-rw-r-- 1 shabbir shabbir 1211184 Jan 12 15:53 02-gitandgithub.pdf
drwxrwxr-x 8 shabbir shabbir  4096 Jan 12 15:53 .git
-rw-rw-r-- 1 shabbir shabbir   16 Jan 12 15:53 README.md
shabbir@shabbir-Aspire-S3-391:~/ecse321/ecse321tutW16$ git pull
```

Travel to tutorial folder

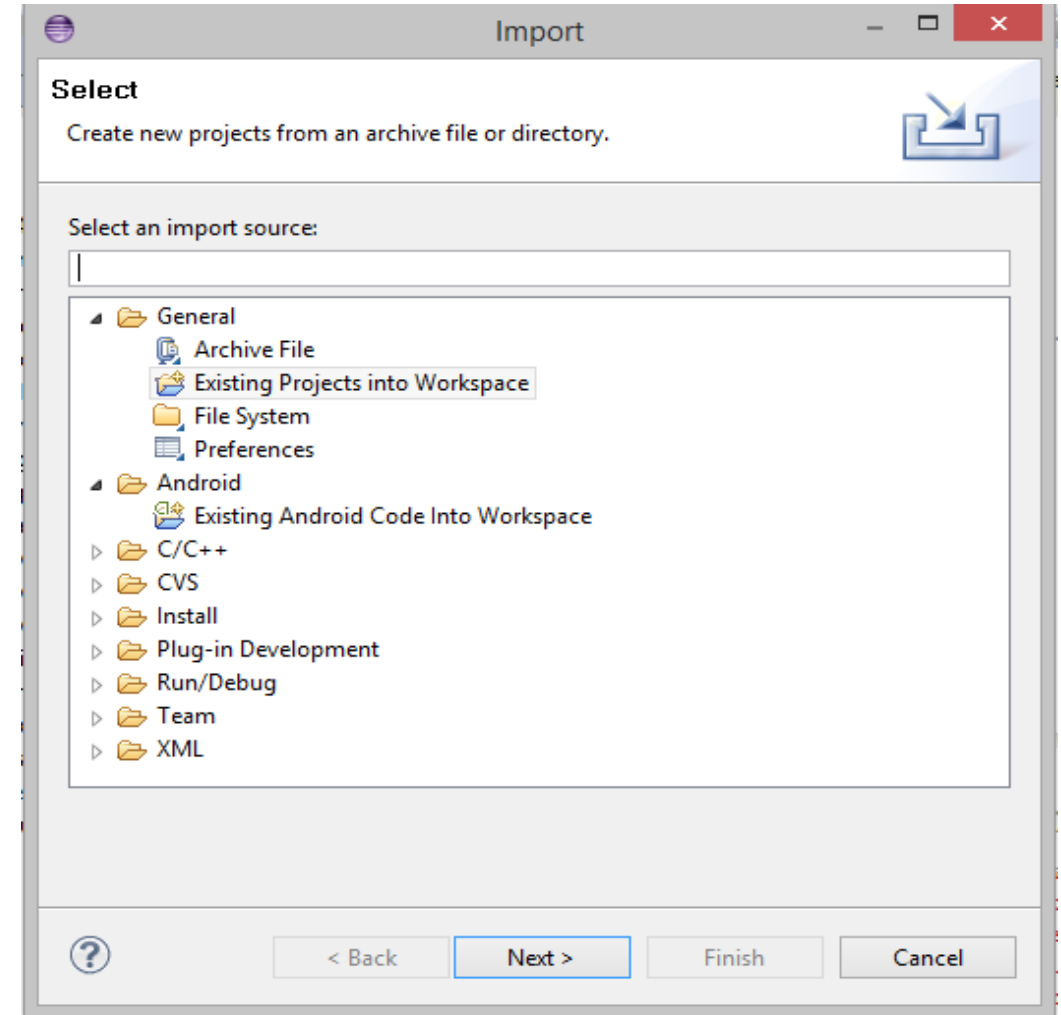
Check that you are in the Repo

Get latest files

Importing a project

File -> Import -> Existing
project into Workspace ->
Browse for project

Go ahead and import today's example code



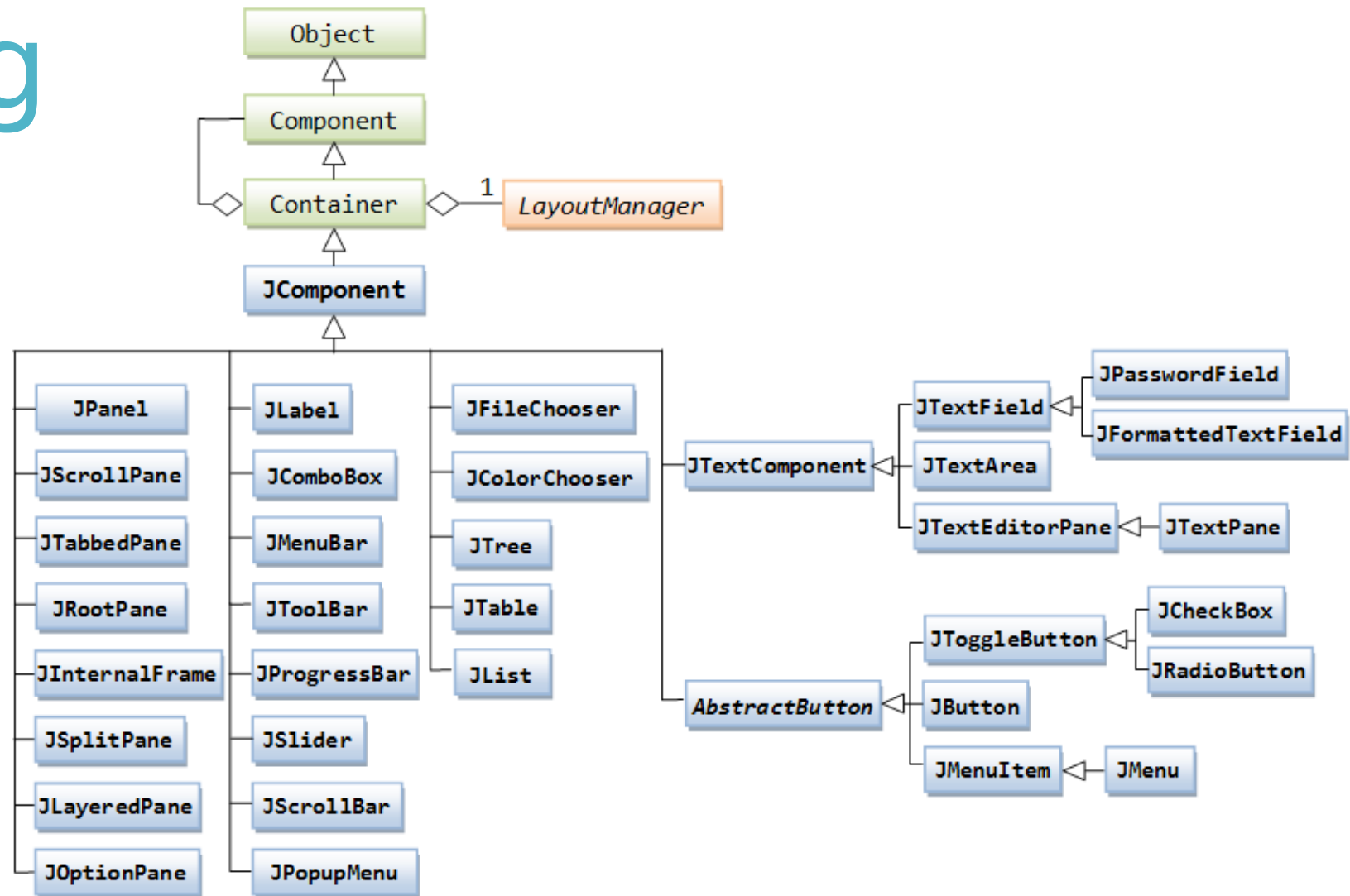


Java Swing

The very basics

Java Swing

Java Swing is the library used to make Graphical user interfaces in Java



Swing Basics - JFrame

A JFrame object is your window

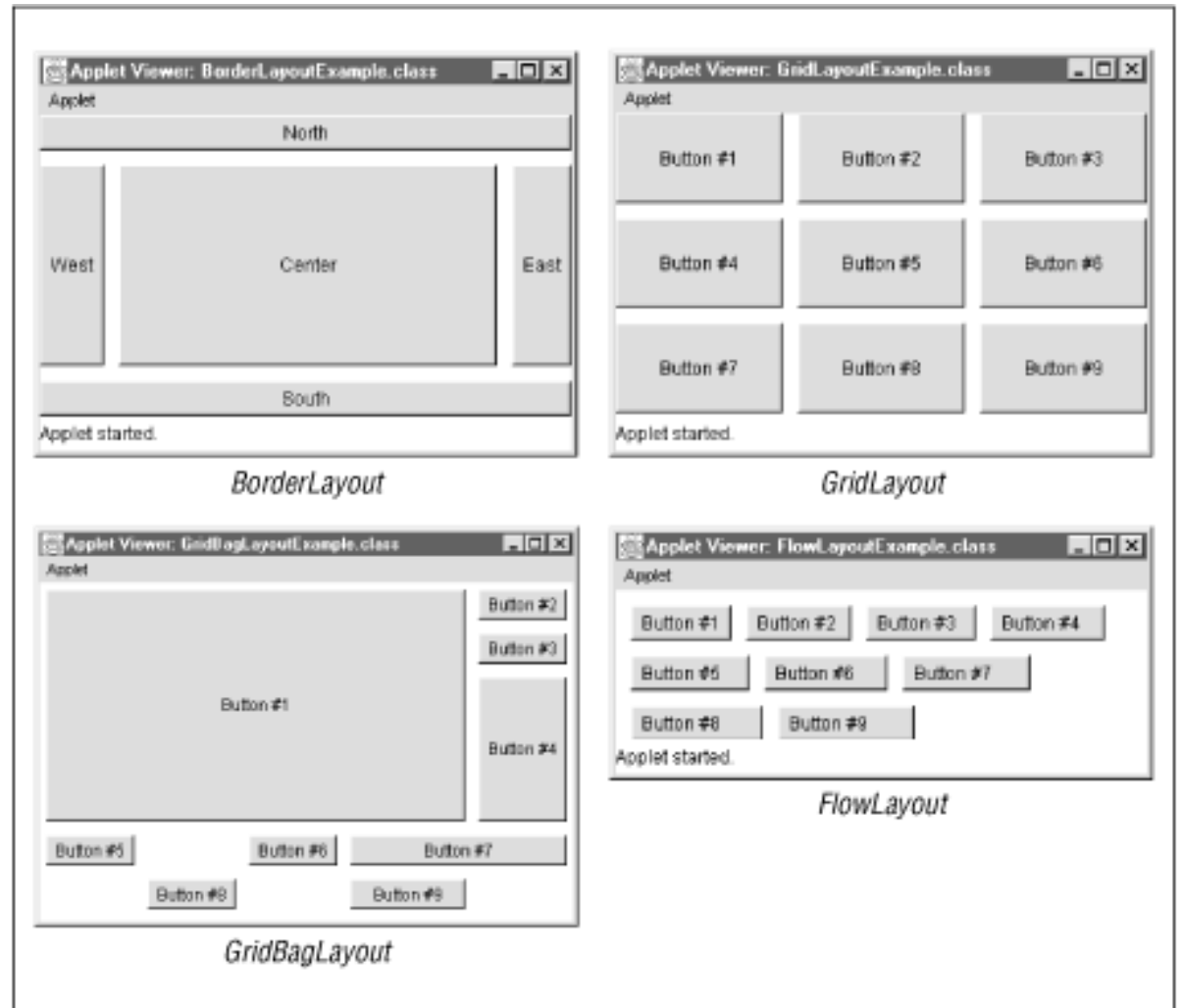


Swing Basics - JFrame

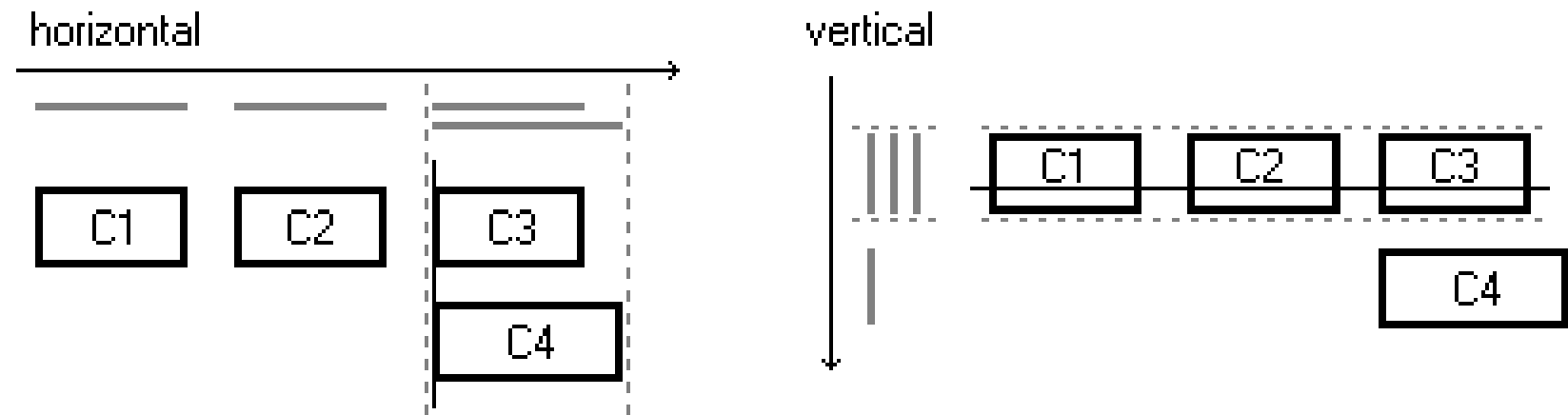
```
public class Application extends JFrame {  
  
    // constants  
    public static final int SCREEN_WIDTH = 400;  
    public static final int SCREEN_HEIGHT = 400;  
    public static final String APP_NAME = "Snake Game 2014";  
  
    public static final int TIMEOUT = 50;
```


Swing Basics - Layouts

A layout is how **components** are **placed**



Swing Basics - Layouts



horizontal layout = sequential group { c1, c2, **parallel group (LEFT)** { c3, c4 } }

vertical layout = **sequential group** { **parallel group (BASELINE)** { c1, c2, c3 }, c4 }

Swing Basics – Action Listener

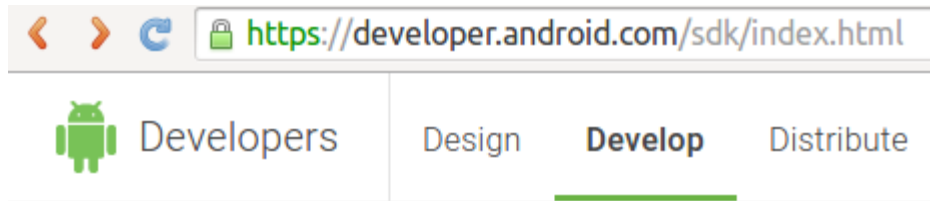
```
this.addParticipantButton.addActionListener(new ActionListener(){  
    @Override  
    public void actionPerformed(ActionEvent e) {  
        addParticipantButtonActionPerformed(e);  
    }  
});
```

Action Listener **calls** a **method** when a particular **action** takes place

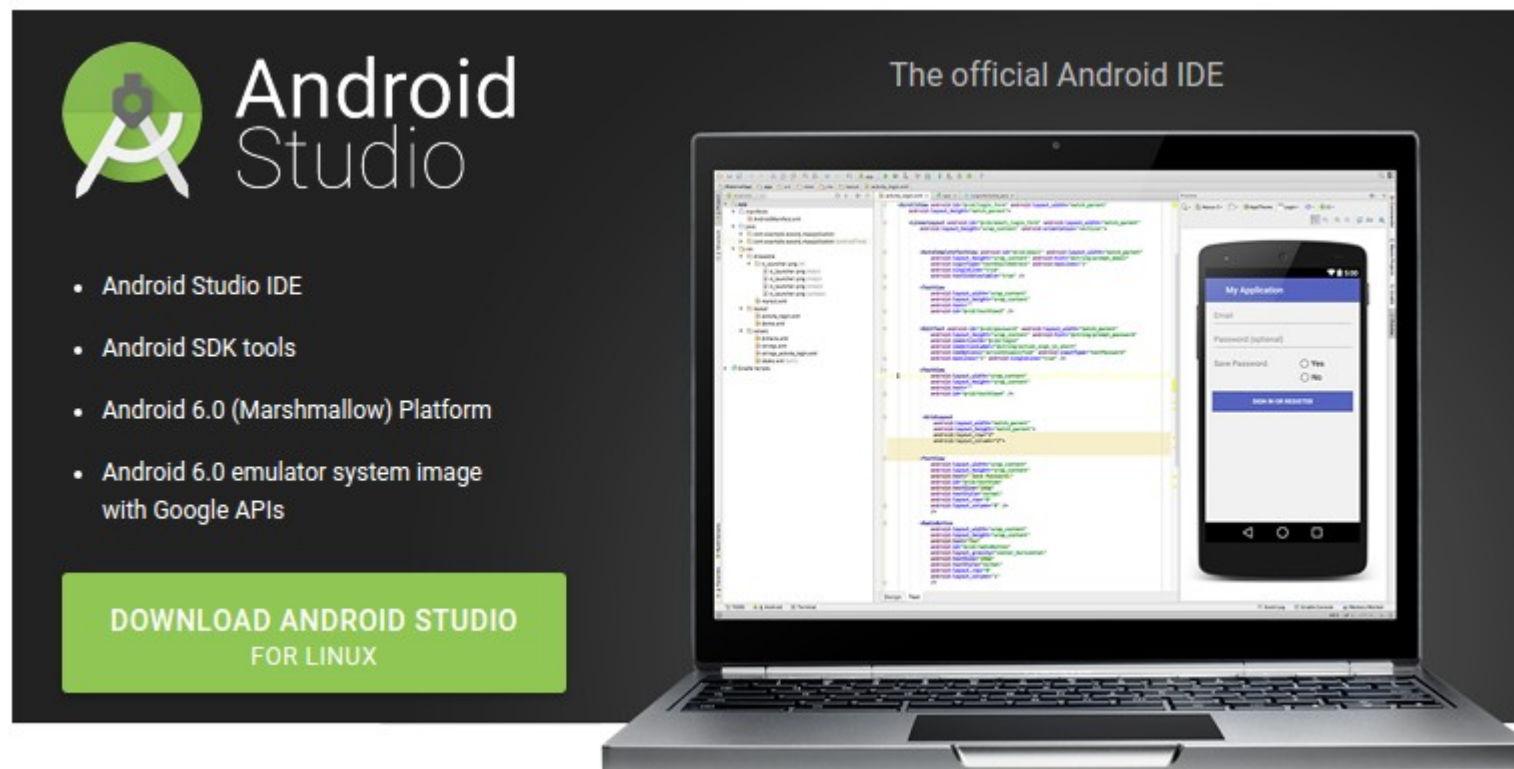
Pair Programming exercise



Android Studio



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Installation Instructions for Intel® Hardware Accelerated Execution Manager - Microsoft Windows*

October 24, 2014

Last updated on November 23, 2015

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Android*

Forum

<https://software.intel.com/en-us/android/articles/installation-instructions-for-intel-hardware-accelerated-execution-manager-windows>

Get XAMPP



The screenshot shows the homepage of the XAMPP website. The browser's address bar displays <https://www.apachefriends.org/index.html>. The website has a dark blue header with navigation links: Apache Friends, Download, Add-ons, Hosting, Community, and About. A search bar is located on the right side of the header. The main content area features the XAMPP logo (an orange square with a white 'X' and 'M' inside) followed by the text "XAMPP Apache + MySQL + PHP + Perl". Below this, there is a section titled "What is XAMPP?" which states: "XAMPP is the most popular PHP development environment" and "XAMPP is a completely free, easy to install Apache distribution containing MySQL, PHP, and Perl. The XAMPP open source package has been set up to be incredibly easy to install and to use." To the right of this text is a video player showing the XAMPP logo and the word "XAMPP". At the bottom, there is a green "Download" button with the text "Click here for other versions" and three buttons for different operating systems: "XAMPP for Windows v5.6.12 (PHP 5.6.12)", "XAMPP for Linux v5.6.12 (PHP 5.6.12)", and "XAMPP for OS X v5.6.12 (PHP 5.6.12)".


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XAMPP Apache + MySQL + PHP + Perl

What is XAMPP?

XAMPP is the most popular PHP development environment

XAMPP is a completely free, easy to install Apache distribution containing MySQL, PHP, and Perl. The XAMPP open source package has been set up to be incredibly easy to install and to use.

 XAMPP

[Download](#)
Click here for other versions

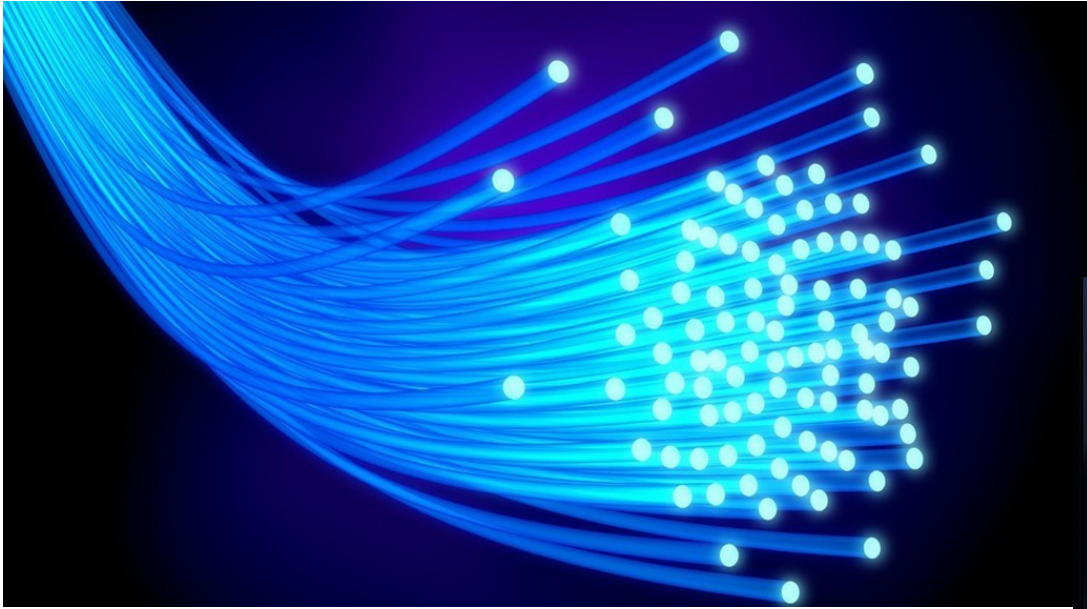
 XAMPP for **Windows**
v5.6.12 (PHP 5.6.12)

 XAMPP for **Linux**
v5.6.12 (PHP 5.6.12)

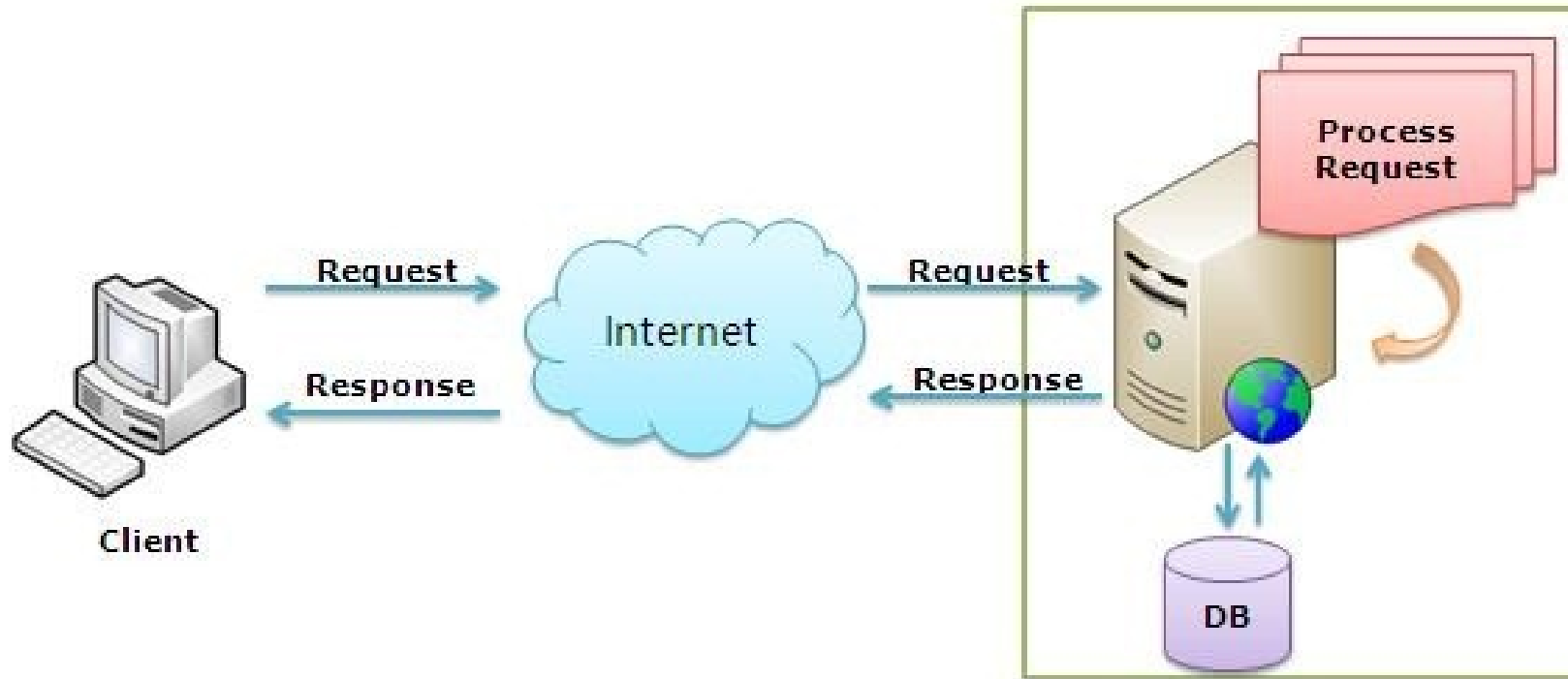
 XAMPP for **OS X**
v5.6.12 (PHP 5.6.12)

Go to www.apachefriends.org

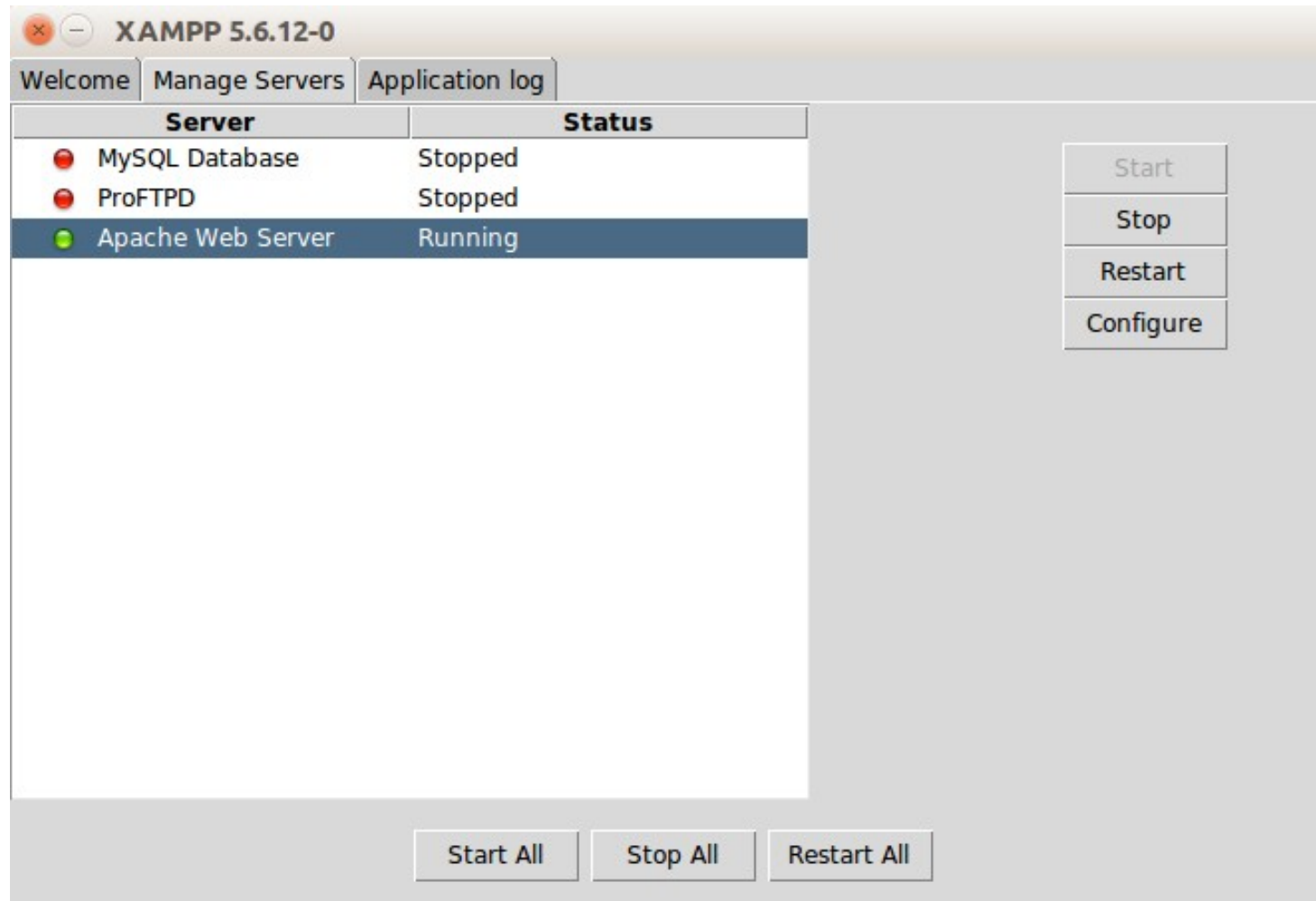
The World Wide Web



The World Wide Web

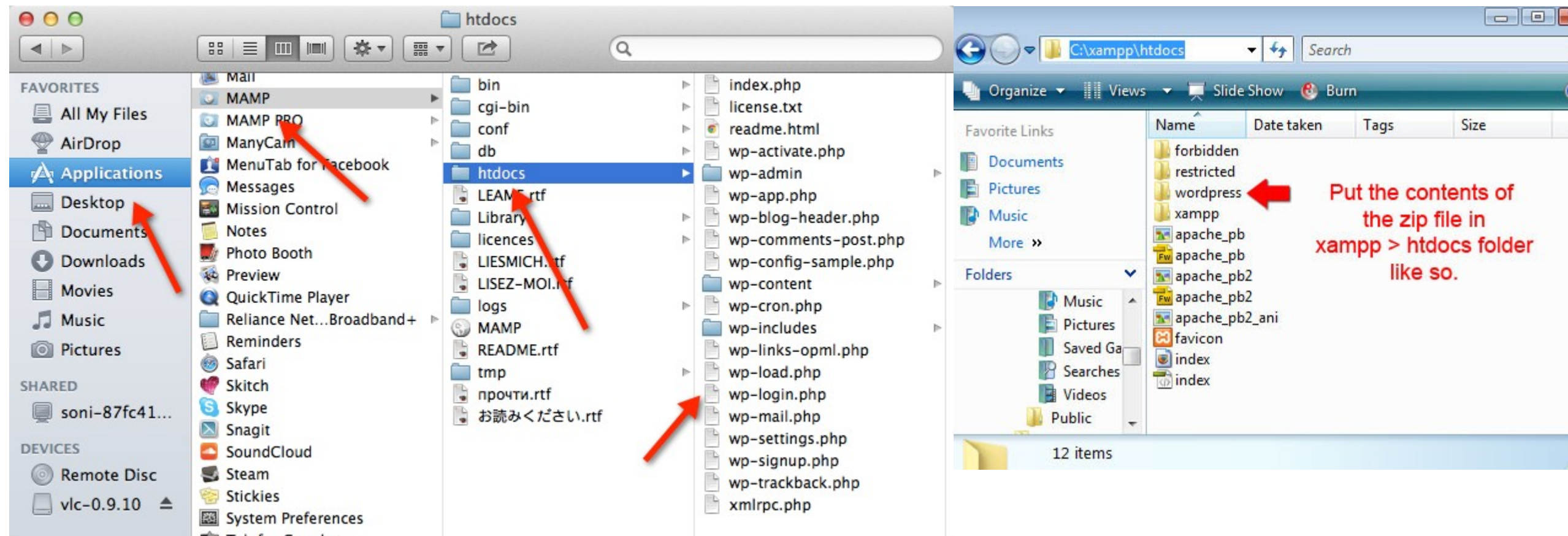


Start XAMPP



Go to htdocs

```
root@shabbir-Aspire-S3-391:/opt/lampp/htdocs# pwd
/opt/lampp/htdocs
root@shabbir-Aspire-S3-391:/opt/lampp/htdocs# ls
applications.html bitnami.css dashboard favicon.ico img index.php test.php webalizer
root@shabbir-Aspire-S3-391:/opt/lampp/htdocs#
```



References

Java Game Tutorial: <http://zetcode.com/tutorials/javagamestutorial/>
Java Group
layout:https://docs.oracle.com/javase/tutorial/uiswing/layout/group.html