## From GPS and Google Maps to Spatial Computing

## **Virtual Machine Setup Instruction**

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The following instructions will help you set up a virtual machine with the necessary programming environment to compete programming assignments in this course. A demo of how to set up the VM is also featured in the programming assignment instruction video in Module 5.

A virtual machine is like a sandbox, preloaded with an operating system and a programming environment. Anything you do inside the VM won't have any effect on files and systems outside the VM. So, you can feel free to play with the VM without worrying about damage your host. For your VM image, we've installed Lubuntu 14.04 (a light-weight version of Ubuntu), Java 7 JDK, Maven, PostgreSQL, PostGIS, WikiBrain, TileMill and IDEA IntelliJ for you. You are welcome to modify the environment based on your needs (like installing another IDE, or another SQL DBMS), however, we cannot provide any help or technical support in doing so.

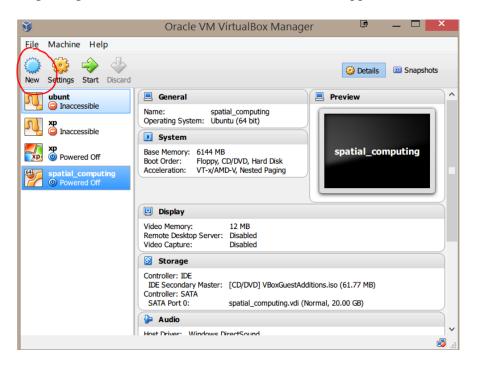
This VM image is provided AS IS with ABSOLUTELY NO WARRANTY. We are not liable to anyone for damage arising out of the use or inability to use this VM image.

Step 1: <u>Download the VM image from the Coursera website</u> Module 5 page and uncompress the package.

Step 2: Download Oracle Virtualbox from <a href="here">here</a>. Choose the version corresponding to your operating system.

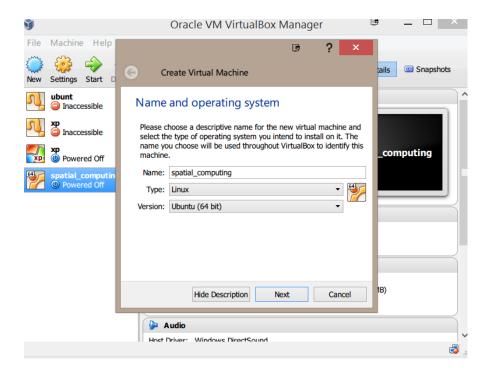


Step 3: Open Virtualbox and click "Create" on the upper left corner.



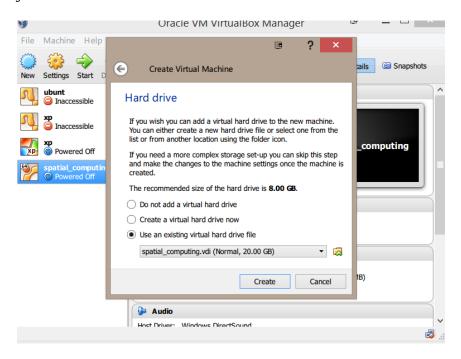
Step 4: Name the VM whatever you like. The type should be "Linux" and the version should be "Ubuntu (64 bit)".

Enable VT-x (Virtualization) in your BIOS if you can't see 64-bit option in the menu.

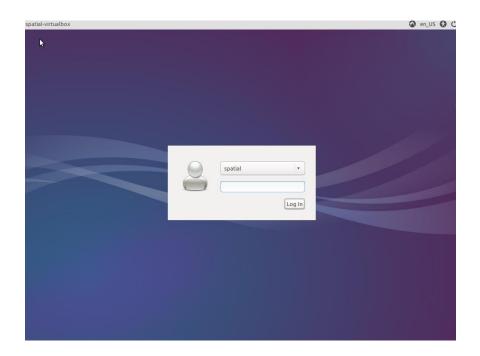


Step 5: Give the VM at least 1GB of memory space.

Step 6: Choose "Use an existing virtual hard drive file" and select the VM image you've just downloaded.



Step 7: Start the VM you've just installed. Log in to the system with the username and the password both "spatial".



Step 8: Execute "IDEA IntelliJ" on the desktop. WikiBrain should load automatically. Run "QueryExample", if you are able to see the results coming out, you are ready to go!

