Princeton University
COS 217: Introduction to Programming Systems
Installing and Using Cygwin

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1   Downloading and Installing Cygwin

1. Go to the website: http://www.cygwin.com

2. Download and execute setup.exe, by clicking on *"Install or update now!"*

3. Click *Next* 5 times

4. Choose a mirror (http://www.mirrorservice.org seems fast)

5. Click *Next*

6. Select X and ssh packages:

    (a) Under X11:

        i. Add X-start-menu-icons
        ii. Add X-startup-scripts

    (b) Under Net

        i. Add openssh: The OpenSSH server and client programs

7. Click *Next*

8. Wait for a while... :-)

9. Choose to add icons to your desktop and start menu

10. Click *Finish*

Note: if you want to install more cygwin packages, you can always rerun the setup.exe program.

2 Enabling X Forwarding

Note: you need to execute this step only once.

1. Double-click the Cygwin icon on your Desktop.

2. Type the command line: `echo "ForwardX11=true" > .ssh/config`

3 Using Cygwin

3.1 Through a Cygwin Terminal

1. Double-click the Cygwin icon on your Desktop.

2. Type the command line: `startx &`

3. Log into the hats cluster: `ssh USERNAME@hats.princeton.edu`

4. In order to test the X forwarding, try opening a remote X application, e.g. xclock.

5. If you need another terminal, go to the Cygwin original window and type: `xterm &`

3.2 Alternative: Using Windows SSH Client

If you want to use the Windows SSH Client, enable X forwarding in:
Edit → Settings → Profile Settings → Tunneling
click on *"Tunnel X11 connections"*.