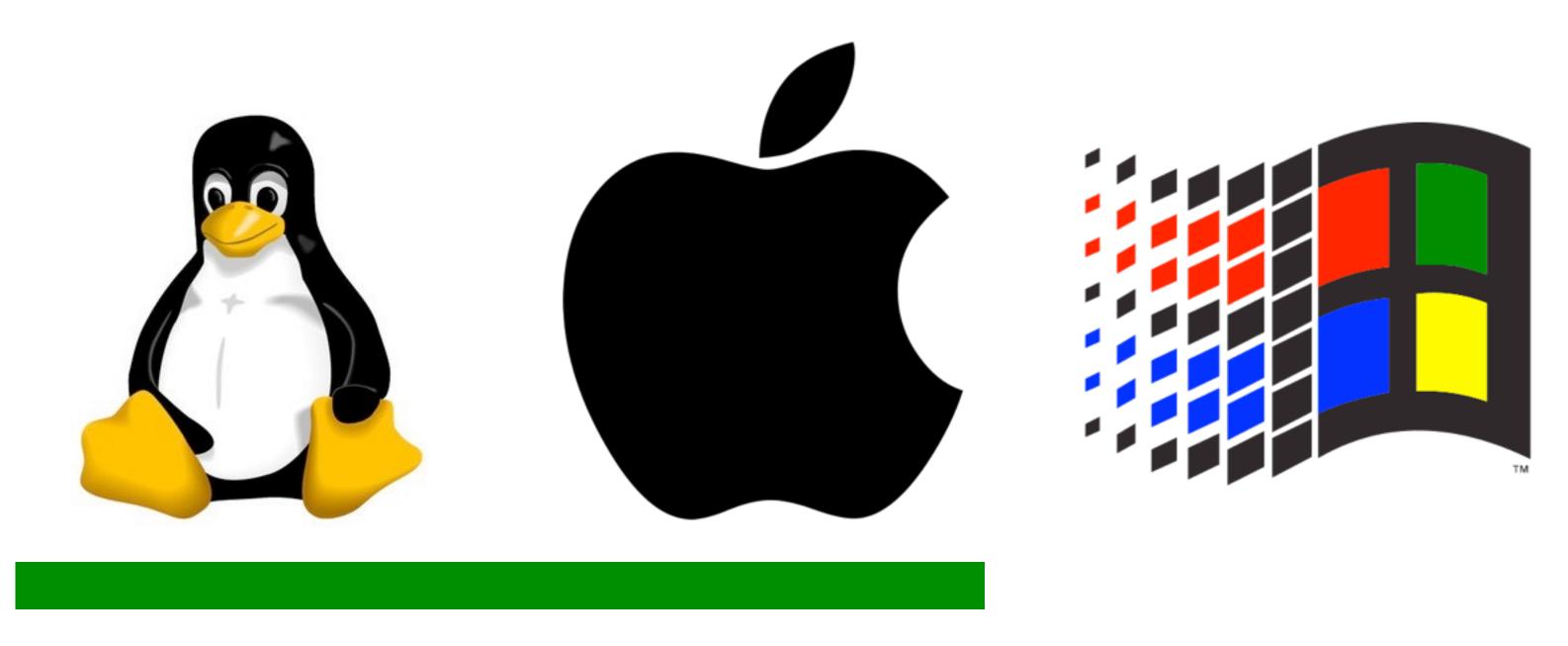
### CS 3410

## Intro to Unix, shell commands, etc...

(slides from Hussam Abu-Libdeh and David Slater)

28 January 2013 Jason Yosinski

# Operating systems



Unix Based

28 January 2013

CS 3410 — Intro to Unix, shell commands, etc...

## A quick survey

- A. Pretty much new here.
- B. Yeah, I know mv, ls, cp.
- C. Regular user
- D. Please, only posers use prebuilt kernels

Monday, January 28, 13

#### Unix shells

A shell is a program that allows the user to interact with the UNIX system:

- read user's input and parses it
- evaluates special characters
- setup pipes, redirections, and background processing
- find and setup programs for execution

Runs programs, strings programs together.



 Unlike windows, UNIX has a single global "root" directory / (instead of of a root directory for each disk/volume)

Hussam Abu-Libdeh based on slides by David Slater

CS2043 - Unix Tools & Scripting

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- All files and directories are case sensitive
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  - UNIX: /home/hussam/Documents/cs2043/2009/Lecture2/
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- "Hidden" files begin with ".": .gimp

## Commands — 1/3 (basic)

```
man
          (manual, get help)
^ C
          (control-c, kill the current program)
ls
          (list files)
pwd
       (print working directory)
mkdir
         (make directory)
cd
          (change directory)
rm
          (remove files and directories)
cp
          (copy)
MV
          (move, same as rename)
```

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## Commands — 2/3 (basic)

```
gcc,g++ (compile C/C++ programs)
```

make (execute a Makefile)

touch (create empty file)

echo (print the argument to stdout)

less (quickly view a text file)

WC (word count)

grep (search for patterns in files)

emacs, vim (text editors)

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# Commands — 3/3 (other)

# Two demos

# Customizing your shell

Example: my.bashrc file:

https://gist.github.com/4658802

# Remember your two friends:

man Gogle