## Terminal Cheat Sheet

ACM Club - October 22, 2015

### File System Basics

- . Present directory
- .. One level above the present directory
- / Beginning of the structure (aka 'root')
- " User's profile or home directory

### Navigation

pwd Print working directory

cd Change directory

1s List files

## File Manipulation

 ${\tt mkdir} \quad {\rm Makes} \ {\rm a} \ {\rm directory}$ 

cp Copies a file

mv Moves/renames a file rm Removes/deletes a file

### File Matching

? Matches a single character

\* Matches any number of unknown character

{a,b,c} Matches listed cases

{0..5} Matches number/letter ranges

## **Text Reading**

cat Dumps entire contents to terminal

less Pages through contents

#### **Time Savers**

Tab Completion Only type part of a command

Arrow up Reuse previously entered commands
history Display previously entered commands

clear Clears the terminal of output

#### Documentation

<command> --h Short details
man <command> Extended details

## Pattern Matching

regex Regular expressions - syntax for pattern matching grep Globally search a regular expression and print sed Stream editor - useful for string substitution

# Input/Output

STDIN Stream of input data

Possible sources: user typing in text, reading of file

STDOUT Stream of output data

Possible destinations: terminal screen, another command echo Creates STDOUT stream - Just like 'cout >>' in cpp file

## Pipe/Redirection

program to STDIN of another

aCommand < aFile Read in a file
aCommand < aFile Write to a file
aCommand >> aFile Append to a file

aCommand < inFile > outFile Reading and writing combo

# gcc/g++

g++ Compiles cpp code

-o <executable output name> Gives executable a proper name