

Shell Scripting Cheat Sheet		
Components of a Bash Script		Executing a Bash Script
<pre>#!/bin/bash  # Comments comments comments # Comments comments  Command1 Command2    # this is a comment too  exit</pre>		<pre>\$ bash script_name.sh  or  \$ chmod +x script_name.sh \$ ./script_name.sh</pre> <p>There is essentially no <i>functional</i> difference between the two methods (as long as the contents are bash).</p>
Initialize Variables		Simple Math
<pre>a=5 b=10 c="Hello" echo "a is \$a, and b is \$b" echo "\$c, world!"</pre>		<pre>c=\$(( \$a+\$b )) echo \$c  (( c++ )) echo \$c</pre>
Conditionals	Tests	
<pre>if [ conditional 1 ] then     command 1 elif [ conditional 2 ] then     command 2 else     command 3 fi</pre>	<pre>-eq    equal to -ne    not equal to -lt    less than -gt    greater than -ge    greater than or equal to -le    less than or equal to str1 == str2  strings equal? str1 != str2  strings unequal?</pre>	<pre>-f file    does file exist? -r file    is file readable? -w file    is file writable? -x file    is file executable? -d file    is it a directory? -s file    is file non-empty?  \$ man test  to see more</pre>
While Loop		For Loop
<pre>while [ condition is true ] do     command1     command2 done</pre>		<pre>for VAR in list do     command1     command2 done</pre>
Getting External Data		Special Variables
<pre># Get info from terminal me=`whoami` echo \$me  # Get info from user echo "Enter a number" read a echo "\$a"</pre>		<pre>\$*    list of parameters passed on command line  \$#    number of arguments on the command line  \$1    the first parameter from command line  \$2    the second parameter (etc)  \$0    the name of the program  \$?    the last exit status  \$\$    process ID of current shell</pre>