## Listing Files

This is how you inspect HDFS to see what it contains. Use these commands to find files and their associated metadata.

hadoop fs -ls ./example	List files in a directory	
hadoop fs -1s	List files matching a pattern	
./example/matthew*		
hadoop fs -ls -h ./example/	List files with human-friendly file sizes (eg 1.3M vs 1331325)	
hadoop fs -ls -R ./example/	Recursively list files in this directory AND all child directories.	
hadoop fs -ls -d ./example/	List files, but with directories shown as files. So in this case it will show info about the example	

folder itself.

## Uploading/Downloading Files

Moving files between HDFS and the local filesystem and back.

hadoop fs -put ./localfile.txt ./example/	Upload a file from your local machne to a specific directory on HDFS.
hadoop fs -put -f ./localfile.txt ./example/	Upload a file and overwrite any existing file on HDFS.
hadoop fs -put -1 ./localfile.txt ./example/	Upload a file and set a replication factor of 1 (you probably shouldn't ever really use this).
hadoop fs -get ./example/remotefile.txt ./	Download a file from HDFS to your local machine.
hadoop fs -get -p ./example/remotefile.txt ./	Download a file from HDFS to your local machine, preserving metadata (eg modified time).
hadoop fs -get ./example/*.txt ./	Download a set of files that match a pattern to your local machine.

## Reading & Writing Files

Reading file contents without downloading the file itself.

hadoop fs -text
./example/file.txt

Print the contents of a file to the terminal, decompressing if nessecery.

hadoop fs -cat ./example/\*.txt Print to the terminal the contents of all files that match the provided pattern. Note - this will NOT decompress like 'text' will.

hadoop fs [-cat,-text] - ignoreCrc ./example/\*.txt

As above, but disable the verification checksum.

hadoop fs -appendToFile
./localfile.txt
./example/remotefile.txt

Append the contents of a local file to a file on HDFS. This is only supported in Hadoop versions 2.1.1+

File Management		
Organize your files with these commands.		
hafoop fs -mv	Move a file to a different file/directory (omit the	
./example/f1.txt	filename to name it the same)	
./example/f2.txt		
hafoop fs -cp	copy a file to a different file/directory (omit the	
./example/f1.txt	filename to name it the same)	
./example/f2.txt		
hafoop fs -rm	Delete a file (sends it to the trash)	
./example/f1.txt		
hafoop fs -rm -skipTrash	Actually delete the file. No trash.	
./example/f1.txt		
hafoop fs -rm -r	Recursively delete a directory and it's contents	
./example/directory		
hafoop fs -touchz	Create a zero-length file (great for creating	
./example/somefile	_SUCCESS files).	
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./example/somefile	_SUCCESS files).	

## **HDFS Administration**

Check on important stuff that is less about your files and more about HDFS.

hadaan fa df h /avampla	Characanacity and used space of the filesystem
hadoop fs -df -h ./example	Show capacity and used space of the filesystem.  Will show partition space remaining if you have
	Will show partition space remaining if you have partitions.
hadoop fs -du -h	show the amount of space used by matching files
./example/*.txt	
hadoop fs -expunge	Empty the Trash (useful if you -rm without -
	skipTrash)
hadoop fs -chown	Change ownership of a file (use -R for the
owner:group ./example	directory)
hadoop fs -chmod 0700	Change the mode of the file (eg to 0700)
./example/file.txt	
hadoop fs -checksum	Fetch checksum information for the matching
./example/*.txt	files (requires a datanode roundtrip, slow and