FIND

find is the command itself

. references the path to search. In this case **.** conveys that we would like to search all files in the current directory

-type f or **-type d** signifies that we are searching for files or directories

-name <parameter> signifies that we are searching for files with the name included

Examples:

find . –type f
- Find all of the files in the current directory and all of its subdirectories

find . –type d
- Find all of the folders in the current directory and all of its subdirectories

find . –type f –name flag1
- Find all of the folders with a given name (flag1)

find . –type d –name coffees
- Find all of the folders with a given name (coffees)

find . –type f –name flag*
- Find all of the files with a given name and wildcard
- Aka, any files that contain the word flag

find <path>
- Search in a specific folder
- The folder has to be in your pwd

find doctor -type f
- Will find all files within the doctor folder (and subfolders)

find <path> -type d
- Will find all folders within the News folder

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Conditional Searches
-o
- OR
- Search for soup OR salad (but not both)

find . –type f –name flag1 –o –name flag2
- Finds all files that are either called flag1 or flag2

-a
- AND
- Search for soup AND salad (results MUST contain both)

find . –type f –name *book* -a –name *dangerous*
- Finds all files whose name contains the word book and dangerous

Type Searches
*.<filetype>
- Find all files of the specified extension

find . –type f –name *.txt
find . –type f –name *.pdf
- Finds all .txt files or .pdf files in the present directory and all subdirectories

Time Searches
-cmin <minutes>
- Files that were last created n minutes ago

find . –cmin +2
- Find all files in my present directory and all subdirectories created in the last 2 minutes

find . –cmin -5
- Find all files created or modified in the past 5 minutes

find . –cmin +2 –cmin -6
- Find all files created or modified more than 2 minutes ago but also less than 6 minutes ago

Size Searches
-size <number><letter>
- Finds all files and folders at least n in size
- `b' for 512-byte blocks (this is the default if no suffix is used)
- `c' for bytes
- `k' for Kibibytes (KiB, units of 1024 bytes)
- `M' for Mebibytes (MiB, units of 1024 * 1024 = 1,048,576 bytes)
- `G' for Gibibytes (GiB, units of 1024 * 1024 * 1024 = 1,073,741,824 bytes)

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find . –size +5k
- Finds all files and folders at least 5 kilobytes in size

find . –size -50k
- Finds all files and folders less than 50 kilobytes in size

find .-size +1G
- Finds all files greater than 1 Gibibyte
  - Not to be confused with Gigabyte
  - Gibibyte = 1,073,741,824 bytes
  - Gigabyte = 1,000,000,000 bytes

File Mode Searches
find . –readable
- Finds all readable files

find . –writable
- Finds all writable files