

# Finding Files and Directories

# What You Will Learn

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Commands that allow you to find files and directories:

`find`

`locate`

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# The `find` Command

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find [path...] [expression]
```

Recursively finds files in path that match the expression. If no arguments are supplied, it finds all files in the current directory.

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# find Options

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- `-name pattern` Find files and directories that match pattern.
  - `-iname pattern` Like `-name`, but ignores case.
  - `-ls` Performs an `ls` on each of the found items.
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# find Options

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- `-mtime days` Finds files that are days old.
  - `-size num` Finds file that are of size num.
  - `-newer file` Finds files that are newer than file.
  - `-exec command {} \;`  
Run command against all the files that are found.
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# A Fast Find - locate

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`locate pattern`

- Lists files that match pattern.
  - Faster than the `find` command.
  - Queries an index.
  - Results are not in real time.
  - May not be enabled on all systems.
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# Summary

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- `find`
    - Real-time results.
    - Good for advanced searches.
  - `locate`
    - Results may be a day old.
    - Good for simple searches.
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