

# Finding Files and Directories

# What You Will Learn

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Commands that allow you to find files and directories:

`find`

`locate`

# 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.

# 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.

# 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.

# 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.

# Summary

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