

**CSC252 – UNIX**

**SHELLS**



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# COMMON SHELLS

- Bourne – sh
- Korn – ksh
- C shell – csh
- Bourne Again Shell – bash
- Debian Almquist Shell (dash)
- TC Shell (tcsh)
- Z Shell (zsh)

# ENVIRONMENT VARIABLES

- HOME
- PATH
- PS1 / prompt
- USER
- SHELL
- TERM
- CDPATH

# MORE ON THE ENVIRONMENT

- `env`
- `history`
- `ignoreeof`
- `noclobber`
- `cdpath`
- `filec`

# METACHARACTERS

- `>` Output redirection
- `>>` Output redirection, append
- `<` Input redirection
- `*` File substitution wildcard (zero or more)
- `?` File substitution wildcard (one char.)
- `[...]` File substitution wildcard (any char. in [])
- ``command`` Command substitution
- `|` Pipe
- `;` Separate commands

# SHELL COMMANDS

- **Redirection**
  - Standard input
  - Standard output
  - Standard error
- **Pipes**
- **Command substitution**
  - Single quotes
  - Carat
  - With history

# FILENAME GENERATION

- ? Single character
- \* 0 or more characters
- [] any character in the brackets

# SHELL SCRIPTS

- `#!<shell_pathname>`
- Environment variables
- Local variables
- Quotes



# COMMON BUILT-IN COMMANDS

- `shift`
- `umask`
- `info bash shell`