

SED

OVERVIEW

- sed = stream editor
- used to edit files
- general form:

```
sed [options] '/pattern/ command'
```

```
input_file
```

```
sed [options] 'range command'
```

```
input_file
```

HELPFUL OPTIONS

- `-E` -> use extended regular expression
- `-f program_filename` -> read sed commands from file named `program_filename`
- `--in-place[=suffix]` -> modify file in place, optionally give suffix to create backup file with suffix extension

COMMON USES

- Deleting lines:
 - `sed -E '/^Totals.*/' d'`
 - `sed '4 d'`
 - `sed '1,4 d'`
- `$` in range form = end of file

COMMON USES (CONT.)

- Substituting Text:
 - `sed -E`
`'s/pattern_to_match/replace_with/'`
 - `sed -E 's/ *$//'` filename

MORE SED SUBSTITUTION

- default: only replaces 1st occurrence of pattern on each line
- can specify to replace others:

- replace all occurrences

```
sed -E 's/pattern_to_match/replace_with/g' fname.txt
```

- replace certain occurrence

```
sed -E 's/pattern_to_match/replace_with/2' fname.txt
```

MORE SED SUBSTITUTION

- combine line range with substitution

```
sed '1,3
```

```
s/pattern_to_match/replace_with/ '
```

```
fname.txt
```

- use matched pattern (or subexpression) in

```
replace_with
```

- \1, \2, ... refer to sub-expressions grouped in parentheses
- & -> entire pattern matched