

# Brace expansion

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- Pattern creation
- Can be much more powerful than globbing
- Unlike globbing, can be used to create and search files

```
echo {1..10}
```

```
1 2 3 4 5 6 7 8 9 10
```

- The pattern put into braces will be expanded by the command preceding it
- Pass multiple patterns into braces to search for multiple patterns
- eg:

```
ls file*.{jpg, png, gif}
```

- This will match any of the file extensions given

## Incremental ranges

- Within a range passed into braces, you can also pass an increment number so that expansion is incremented by a number other than 1
- eg:

```
ls -l photo_{1000..1100..7}*.jpg
```

```
photo_1000.jpg
```

```
photo_1007.jpg
```

```
photo_1014.jpg
```

```
photo_1021.jpg
```

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- Brace expansion is powerful enough to make very tedious tasks fast
  - If you want to create 12 folders for 12 months and 31 folders inside each, you can do the following:

```
mkdir -p {1..12}/{1..31}
```

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