



## Curl Cheat Sheet

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Curl is a tool to transfer data to and from a server, supporting protocols including HTTP, FTP, IMAP, LDAP, POP3, SCP, SFTP, SMB, SMTP, and more.

### Web browsing

Fetch HTTP headers	<code>curl --head "https://example.com"</code>
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List contents of a directory
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<code>curl --list-only "https://example.com/foo/"</code>
--

Redirect query as specified by a 3xx response
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<code>curl --location "https://iana.org"</code>
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Fail quickly
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<code>curl --fail-early "http://opensource.ga"</code>
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Check whether a site is down
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<code>curl --head --show-error "http://example.com"</code>
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Expand a shortened URL
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<code>curl --head --location "https://bit.ly/2yDyS4T"</code>
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### Downloading files

Download a file, saving the file without changing its name
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<code>curl --remote-name "https://example.com/linux-distro.iso"</code>
--

Rename the file
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<code>curl --remote-name "http://example.com/index.html" --output foo.html</code>
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Continue a partial download
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<code>curl --remote-name --continue-at - "https://example.com/linux-distro.iso"</code>
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Download a file from multiple domains
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<code>curl "https://www.{example,w3,iana}.org/index.html" --output "file_#1.html"</code>
--

Download a sequence of files (outputs foo_file1.webp, foo_file2.webp...bar_file1_webp, etc)
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<code>curl "https://{foo,bar}.com/file_[1-4].webp" --output "#1_#2.webp"</code>
---

Download a sequence of files (outputs foo_file1.webp, foo_file2.webp...bar_file1_webp, etc)
---

<code>curl "https://{foo,bar}.com/file_[1-4].webp" --output "#1_#2.webp"</code>
---

## Downloading files (continued)

Download all PNG files from a site (uses GNU grep)

```
curl https://example.com | grep --only-matching 'src="[^"]*.[png]"' | \
cut -d\" -f2 | \
while read i; do curl https://example.com/"${i}" -o "${i###/}"; done
```

## API interaction

Query an API endpoint

```
curl "https://gitlab.com/api/v4/projects"
```

Send raw data to an API endpoint

```
curl --data "Some data" "https://example.com/api/v4/endpoint"
```

Send form data (emulates a form and Submit button)

```
curl --form "username=seth" --form "password=12345678" \
"https://example.com/api/v4/endpoint"
```

Send a file as form data (uses the @ syntax)

```
curl --form "profile=@me.jpg" "https://example.com/foo/bar"
```

Send contents of a file as form data (uses the < syntax)

```
curl --form "description=<file.md" "https://example.com/foo/bar"
```

Send HTTP header data (for example, an authorization token)

```
curl --header "Authorization: Bearer F66eD5ffXHp2Y" \
"https://example.com/api/v4/endpoint"
```

Specify HTTP Method

```
curl --request POST --data "Foo: bar" "https://example.com/api/endpoint"
```

Make an API call to a service

```
curl --request PUT --header "PRIVATE-TOKEN: your_access_token_here" \
--data "?per_page=10" "https://gitlab.com/api/v4/namespaces"
```