## Fetch documents from the web

```
$ curl -s --compressed https://www.qutenberg.org/cache/epub/2701/pq2701.txt |
The Project Gutenberg EBook of Moby Dick; or The Whale, by Herman Melville
This eBook is for the use of anyone anywhere at no cost and with
almost no restrictions whatsoever. You may copy it, give it away or
re-use it under the terms of the Project Gutenberg License included
with this eBook or online at www.gutenberg.org
Title: Moby Dick; or The Whale
$ curl -s --compressed https://www.gutenberg.org/cache/epub/2701/pg2701.txt |
  22108 215135 1257296
Fetch data from the web
$ curl -s "http://api.currencylayer.com/\
> live?access key=$API KEY&source=USD&currencies=EUR" | # Obtain USD EUR rate
> jq . # Format the JSON result
  "success": true,
  "terms": "https://currencylayer.com/terms",
  "privacy": "https://currencylayer.com/privacy",
  "timestamp": 1584462846,
  "source": "USD",
  "quotes": {
    "USDEUR": 0.91095
  }
}
                              无输出,解决方法:
$
Query JSON data
$ WGE='https://www.wikidata.org/w/api.php?action=wbgetentities&format=json' # API endpoint
$ curl -s "$WGE&titles=Moon&sites=enwiki" | # Obtain the Moon identifier
> jq -r '.entities[].id' # Query the JSON data for the identifier
0405
$ MOONID=$(curl -s "$WGE&titles=Moon&sites=enwiki" | # Store the result in a variable
> jq -r '.entities[].id')
$ curl -s "$WGE&ids=$MOONID" | # Obtain Moon's data
> jq -r .entities.$MOONID.claims.P2067[].mainsnak.datavalue.value.amount # Query mass
+73.477
Query relational databases
$ echo 'SELECT COUNT(*) FROM projects' | # SQL query
> mysql -ughtorrent -p ghtorrent # MySQL client
Enter password:
count(*)
16331225
Commands for each database
$ sqlplus # Oracle
$ osql # Microsoft SQL Server
$ sqlite3 # SQLite engine
$ psql # PostgreSQL
```

\$ odbc # Any ODBC source (http://spinellis.gr/sw/outwit)

## Putting it all together

```
$ echo 'select url from projects limit 3' | # Obtain URL of first three projects
> mysql -ughtorrent -p ghtorrent | # Invoke MySQL client
> while read url ; do
    curl -s $url | # Fetch project's details
      # Print owner, project, and last push time
      jq -r '{owner: .owner.login, name: .name, pushed: .pushed_at}'
> done
Enter password:
{
  "owner": "tosch",
  "name": "ruote-kit"
  "pushed": "2012-08-01T20:54:13Z"
}
  "owner": "kennethkalmer",
  "name": "ruote-kit",
  "pushed": "2013-07-22T03:54:28Z"
}
  "owner": "matplotlib",
  "name": "basemap",
  "pushed": "2015-12-14T18:23:44Z"
}
$
Query LDAP stores
```