Hurl HTTP requests as tests

CONCEPTS

A .hurl file is a list of entries: a request, then the response you expect.

Request METHOD URL, headers, body
↓ HTTP
Response HTTP 200
↓ [Captures]
Variables {{name}}
↓ next entry
[Asserts] pass or fail, exit code

Entries run in order, so a capture in one is usable as {{name}} in the next.

Without --test, only the last response body is printed; asserts still run and set the exit code.

RUN

hurl *<file.hurl>*
Run a file

hurl *<a.hurl>* *<b.hurl>*
Run several files in order

hurl --test *<files>*
Test mode: progress and summary

hurl --glob "*<pattern>*"
Run files matching a glob

hurl --continue-on-error *<file>*
Do not stop at the first failed assert

hurl --retry *<n>* **--retry-interval** *<ms>* *<file>*
Retry failed entries

REQUEST

GET *<url>*
First line: method and URL

<Name>: *<value>*
Header lines straight after the URL

[Query] *<key>*: *<value>*
Query string params, unencoded

[Form] *<key>*: *<value>*
URL-encoded form fields

REQUEST (cont.)

[BasicAuth] *<user>*: *<password>*
Basic authentication

[Options] *<option>*: *<value>*
Per-request options

{ "key": "value" }
JSON body, Content-Type set for you

```json ... ```
Multiline body, with templates

RESPONSE & ASSERTS

HTTP 200
Expect this status

[Asserts]
Section of checks, one per line

status < 300
Status check

header "*<Name>***" contains "***<text>***"**
Header check

jsonpath "$.a.b" == "*<value>***"**
Check a JSON value

jsonpath "$.items" count == *<n>*
Check list length

xpath "//h1" exists
Check HTML or XML

body contains "*<text>***"**
Substring of the body

jsonpath "$.x" not exists
Negate any predicate with not

PREDICATES

== ≠ > ≥ < ≤
Compare values

startsWith endsWith contains
String and list checks

matches /*<re>***/**
Regex match

exists isEmpty
Presence checks

isString isInteger isBoolean
Type checks (also isFloat, isList...)

CAPTURES & VARIABLES

[Captures]
Section that stores response values

id: jsonpath "$.id"
Capture a JSON value

tok: header "X-Token"
Capture a header

{{name}}
Use a variable in URL, header, body

hurl --variable *<name>*=*<value>*
Set a variable

hurl --variables-file *<file>*
Variables from name=value lines

hurl --secret *<name>*=*<value>*
Variable redacted from logs

HTTP OPTIONS

-L, --location
Follow redirects

-H, --header *<Name:value>*
Add a header to every request

-u, --user *<user:password>*
Basic authentication

-k, --insecure
Skip TLS verification

OUTPUT & REPORTS

-v, --verbose
Request and response details on stderr

--very-verbose
Debug output with bodies

-i, --include
Print response headers too

-o, --output *<file>*
Write the body to a file

-h, --help / -V, --version
Help and version

--report-html *<dir>*
HTML report

--report-junit *<file>*
JUnit XML for CI