Newman Postman collection runner

CONCEPTS

> Export the collection (and environment) from Postman as JSON first; Newman runs those files, it does not edit them.

Postman export collection.json
↓ `newman run`
Newman run requests + scripts
↓ `assertions`
Results pass / fail
↓ `-r reporters`
Reports cli, json, junit
↓ `exit code`
CI job red or green

> Postman now steers users to the Postman CLI; Newman still runs v2 collections but is no longer actively developed.

> Passing -r replaces the default cli reporter. Add cli to the list to keep the console output.

INSTALL

`npm install -g newman`
Install globally (Node 16+)

`newman --version`
Print the version

`brew install newman`
Install with Homebrew

`npm install -g newman-reporter-htmlextra`
Add the HTML Extra reporter

`docker run -t postman/newman run <collection.json>`
Run the official Docker image

`newman run --help`
List every run option

RUN

`newman run <collection.json>`
Run a collection file

`newman run <url>`
Run a collection from a URL

`newman run <collection.json> -e <env.json>`
Use an environment file

`newman run <collection.json> -g <globals.json>`
Use a globals file

RUN (cont.)

`newman run <collection.json> -n <count>`
Repeat the run N times

`newman run <collection.json> --folder <name>`
Run only one folder or request

`newman run <collection.json> --bail`
Stop at the first failed test

`newman run <collection.json> --bail folder`
Stop after a folder with failures

`newman run <collection.json> -x`
Exit 0 even if tests fail

`newman run <collection.json> --verbose`
Print full request and response data

DATA AND VARIABLES

`newman run <c> -d <data.csv>`
Iterate over CSV or JSON rows

`newman run <c> --env-var "<name>=<value>"`
Override an environment variable

`newman run <c> --global-var "<name>=<value>"`
Override a global variable

`newman run <c> --export-environment <file>`
Save the environment after the run

REPORTERS

`newman run <c> -r cli,json`
Choose reporters (comma list)

`newman run <c> -r junit`
Write a JUnit XML report

`newman run <c> -r htmlextra`
Write an HTML report (plugin)

`newman run <c> -r json --reporter-json-export <file>`
Set the JSON report path

`newman run <c> -r junit --reporter-junit-export <file>`
Set the JUnit report path

`newman run <c> -r htmlextra --reporter-htmlextra-export <file>`
Set the HTML report path

REPORTERS (cont.)

`newman run <c> --reporter-cli-silent`
Hide cli output

`newman run <c> --color off`
Disable colours (log files)

TIMEOUTS AND NETWORK

`newman run <c> --delay-request <ms>`
Wait between requests

`newman run <c> --timeout <ms>`
Limit the whole run time

`newman run <c> --timeout-request <ms>`
Limit each request

`newman run <c> -k`
Skip TLS certificate checks

NODE.JS LIBRARY

Run from a script

```
const newman = require('newman');
newman.run({
  collection: require('./
collection.json'),
  reporters: 'cli'
}, (err) ⇒ { if (err) throw
err; });
```

RECIPES

CI run with reports

```
newman run api.json -e
staging.json \
  -r cli,junit \
  --reporter-junit-export
results/junit.xml \
  --bail
```

Data-driven run

```
# users.csv columns become
{{variables}}
newman run api.json -d users.csv
-n 3 \
  --env-var "baseUrl=https://api.
example.com"
```

Fresh token, saved environment

```
newman run login.json -e dev.json
\
  --export-environment dev.json
newman run api.json -e dev.json
```

Run in Docker

```
docker run --rm -v "$PWD:/etc/
newman" \
  postman/newman:alpine run
api.json -e env.json \
  -r cli,junit
```