



Perceval

A GrimoireLab tool

Retrieve data
from +20 kinds of
software development repositories
with a single Python API

askbot
bugzilla
bugzillares
confluence
discourse
dockerhub
gerrit
git
github
gitlab
hyperkitty
jenkins
jira
launchpad
mattermost
mbox
mediawiki
meetup
nntp
phabricator
pipermail
redmine
rss
slack
stackexchange
supybot
telegram

```
from perceval.backends.core.git import Git
```

```
# url for the git repo to analyze
repo_url = 'http://github.com/grimoirelab/perceval.git'
# directory for letting Perceval clone the git repo
repo_dir = '/tmp/perceval.git'
```

```
# create a Git object, pointing to repo_url, using repo_dir for cloning
repo = Git(uri=repo_url, gitpath=repo_dir)
# fetch all commits as an iterator, and iterate it printing each hash
for commit in repo.fetch():
    print(commit['data']['commit'])
```

```
repo = GitHub(owner=owner, repository=repo, api_token=args.token)
# fetch all issues/pull requests as an iterator, and iterate it printing
# their number, and whether they are issues or pull requests
for item in repo.fetch():
    if 'pull_request' in item['data']:
        kind = 'Pull request'
    else:
        kind = 'Issue'
    print(item['data']['number'], ': ', kind)
```

```
# create a Gerrit object, pointing to hostname, using user for ssh access
repo = Gerrit(url=hostname, user=user)
```

```
# fetch all reviews as an iterator, and iterate it printing each review id
for review in repo.fetch(from_date=from_date):
    print(review['data']['number'])
```

github.com/chaoss/grimoirelab-perceval

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