clan Documentation

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About

1.1 clan (Command Line ANalytics)

A command line utility for generating Google Analytics reports that are straightforward to compare across domains, projects or pages.

Important links:

• Repository: https://github.com/onyxfish/clan

• Issues: https://github.com/onyxfish/clan/issues

• Documentation: http://clan.rtfd.org/

2 Chapter 1. About

Installation

2.1 Users

If you only want to use clan, install it this way:

```
pip install clan
```

Note: clan is intended for **researchers** and **analysts**. You will need to understand the Google Analytics API in order to use it effectively. It is not intended to generate reports for your boss.

2.2 Developers

If you are a developer that also wants to hack on clan, install it this way:

```
git clone git://github.com/onyxfish/clan.git
cd clan
mkvirtualenv --no-site-packages clan
pip install -r requirements.txt
python setup.py develop
```

Note: If you have a recent version of pip, you may need to run pip with the additional arguments --allow-external argparse.

Authentication

Before you use clan, you're going to need to setup your access to the Google Analytics API. Follow the instructions in Google's docs to register an application and create the client_secrets.json file.

Once you've got a client_secrets.json file, clan will walk you through acquiring an oAuth token:

clan auth

By default this token will be named analytics.dat. I suggest you move this file to \sim /.clan_auth.dat. clan will always look for the auth in that location so you will only need one copy no matter what directory you are running clan from.

Basic usage

clan has two basic modes, 1) writing analytics data to a JSON file suitable for further processing and 2) writing data to a text report suitable for reading or emailing.

To configure clan, create a YAML data file describing the analytics you want to run:

```
# Global configuration, only property-id is required
property-id: "53470309"
start-date: "2014-06-01"
prefix: "/commencement/"
# Metrics to report
queries:
    - name: Totals
     metrics:
          - "ga:pageviews"
          - "ga:uniquePageviews"
          - "ga:users"
          - "ga:sessions"
    - name: Totals by device category
      metrics:
         - "ga:pageviews"
          - "ga:uniquePageviews"
          - "ga:users"
          - "ga:sessions"
      dimensions:
         - "ga:deviceCategory"
      sort:
          - "-ga:pageviews"
```

To run this report to a JSON file, run the following command. Note that by default clan will look for a YAML file called clan.yml. You can override this with the -c option. For complete documenation of this configuration, see *Configuration*.

```
clan report -f json analytics.json
```

Global configuration can also be specified as command arguments, allowing you to reuse a YAML configuration file for several properties or page sets. When specified, command-line arguments will always take precedence over variables in the YAML configuration.

```
clan report -f json --start-date 2014-05-1 --prefix /tshirt/ analytics.json
```

To instead produce a text report (the default), run:

```
clan report analytics.txt
```

You can also convert an existing JSON report to text, like so:

```
clan report -d analytics.json analytics.txt
```

Here is sample output for the above configuration:

```
Report run 2014-06-06 with:
   property-id: 53470309
   start-date: 2014-06-01
   prefix: /commencement/
Totals
(using 89.0% of data as sample)
   ga:pageviews
        88,935
                 100.0%
                           total
   ga:uniquePageviews
        60,179 100.0%
                           total
   qa:users
        21,244
               100.0%
                           total
   ga:sessions
        26,817
                100.0%
                         total
Totals by device category
(using 89.0% of data as sample)
   ga:pageviews
        64,542
                 72.6%
                           desktop
                         mobile
        15,403
                 17.3%
                 10.1%
                         tablet
         8,991
        88,936
               100.0%
                           total
   ga:uniquePageviews
        40,966 68.1%
                           desktop
        12,277
                 20.4%
                           mobile
         6,936
                 11.5%
                           tablet
        60,179 100.0%
                           total
   ga:users
        12,838
                 60.4%
                           desktop
               28.6%
10.9%
100.0%
         6,084
                           mobile
         2,322
                           tablet
        21,244
                           total
   ga:sessions
                 59.7% desktop
        16,014
```

7,644

3,159

28.5% mobile

11.8% tablet

26,817 100.0% total

Advanced usage

5.1 Configuration

5.1.1 Configuring clan

clan is configured using either YAML, command-line arguments or both.

By default clan will look for a YAML file called clan. yml. This can be configured using the -c command line flag. The basic structure of this file is:

5.1.2 Global configuration

The following is a list of properties that may be specified in as global configuration. Note that these may also be specified using command line arguments. Some properties can also be specified on a per-query basis. If there is a disagreement, the values will be preferred in the following order:

- · Command-line values
- Query configuration in YAML
- Global configuration in YAML

property-id

The ID of the Google Analytics property to query.

start-date

The start date of all queries, in YYYY-MM-DD format.

end-date

The end date of all queries, in YYYY-MM-DD format. Supersedes ndays if both are specified.

ndays

A number of days from the start date to report on. Superseded by end-date if both are specified.

domain

If specified, results will be limited to URLs from this domain.

prefix

If specified, results will be limited to URLs with this prefix.

5.1.3 Query configuration

Individual queries support the following properties.

name

A description of the query. Will be used as a display name when rendering a text report.

metrics

A list of Google Analytics metrics to be reported.

For details about all metrics you can report on, see the Google Analytics Core Reporting API docs.

dimensions

A list of Google Analytics metrics on which to segment the data. Not that these are pairwise not hierarchical. If your query configuration looked like:

Then your resulting report would enumerate the most popular combinations of device and browser, not the most popular devices further subdivided by most popular browser.

sort

A list of Google Analytics metrics to sort by. Prefix a value with a – to sort in descending order.

filter

A Google Analytics query filter expression to apply to the data. This will be "ANDed" together with any filters automatically generated from other configuration options such as domain or prefix.

CHAPTER 6)
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Authors

• Christopher Groskopf

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Changelog

8.1 0.1.1

- Refactored to use command structure for CLI.
- -ndays argument. (#10)
- Document all configuration options. (#13)
- Allow global configuration on command line. (#12)
- Fixed .yaml extension to be .yml.

8.2 0.1.0

• Initial version.

CHAPTER 9

Indices and tables

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- modindex
- search