CoLiW Documentation

Release 0.1

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Intro

Hello and welcome to the *CoLiW* documentation. This is a simple web application able to mimic a basic shell window (CLI) for being able to access various APIs and retrieve information.

Right now we support:

- **ipinfo** Get IP info and geo location
- **weather** Get weather by a city
- **walpha** Compute math expressions

You will find this service deployed at the following address: http://coliw.herokuapp.com/

Usage

As the welcome screen says, write *–help* (or just simply *-h*) for getting a list of the available commands and their usage. To view additional help regarding each of the commands, type *<command> -h* and in this way, you'll be able to explore the available API commands and see them in action by also placing input.

2.1 Clear & History

Use the *Clear* button to clear the screen or activate the auto-clear checkbox for letting the app doing this automatically every time you test a new command.

In case you close the window and get back under a certain amount of time, your history will be kept and left in the same state.

2.2 Commands

2.2.1 IP & GEO

```
> ipinfo -i -l
46.5757,26.8712
91.202.91.119
```

Shows current IP information, regarding location coordinates and IP address. Run *ipinfo 8.8.4.4* for showing info about a certain IP (not yours).

2.2.2 Weather

```
> weather Iasi
Clear
clear sky
```

Shows current basic weather conditions in the given city.

2.2.3 WolframAlpha

```
> walpha pi
3.1415926535
```

Computes and/or shows details regarding math expressions/equations and more.

2.3 Advanced

The web shell also supports basic pipe "|" operators and temporary files I/O with "<" (read), ">" (write) and ">>" (append). You can use these to chain together outputs from previous commands as inputs for the next ones or saving huge outputs to temporary named files (based on your current session).

```
> ipinfo --city | weather
Clear
clear sky
```

Get current city by IP and show how's weather there.

```
> walpha 2^3 > 8.txt
> walpha -v < 8.txt
8
eight
```

Save output into files and retrieve it back when needed.

API reference

- *`/command`*
  - methods: *POST*
  - data: *cmd* (json serialized command string)
  - response: {"code": ..., "response": ...}
- *`/history`*
  - methods: *GET POST*
  - data: *data* (json serialized history contents and index) (POST)
  - response: {"status": ...[, ...]}

3.1 Plugins

The available list of commands is given by auto-discovering all the plugins present into *coliw/plugins* directory. All of these have to follow a simple standard: Implement an instance of *WebArgumentParser* under the *parser* name that will have a default function attached for command execution.

3.2 Backend

Indices and tables

- genindex
- modindex
- search