
pyte

Release 0.4.2

January 10, 2016

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```
-- chicks dig dudes with terminals (c) @samfoo
```

What is `pyte`? It's an in memory VTXXX-compatible terminal emulator. XXX stands for a series video terminals, developed by [DEC](#) between 1970 and 1995. The first, and probably the most famous one, was VT100 terminal, which is now a de-facto standard for all virtual terminal emulators. `pyte` follows the suit.

So, why would one need a terminal emulator library?

- To screen scrape terminal apps, for example `htop` or `aptitude`.
- To write cross platform terminal emulators; either with a graphical (`xterm`, `rxvt`) or a web interface, like [Ajax-Term](#).
- To have fun, hacking on the ancient, poorly documented technologies.

Note: `pyte` started as a fork of [vt102](#), which is an incomplete pure Python implementation of VT100 terminal.

Installation

If you have [setuptools](#) you can use `easy_install -U pyte`. Otherwise, you can download the source from [GitHub](#) and run `python setup.py install`.

Quick example

There are two important classes in `pyte`: `Screen` and `Stream`. The `Screen` is the terminal screen emulator. It maintains an in-memory buffer of text and text-attributes to display on screen. The `Stream` is the stream processor. It manages the state of the input and dispatches events to anything that's listening about things that are going on. Events are things like `LINEFEED`, `DRAW "a"`, or `CURSOR_POSITION 10 10`. See the *API documentation* for more details.

In general, if you just want to know what's being displayed on screen you can do something like the following:

```
>>> import pyte
>>> screen = pyte.Screen(80, 24)
>>> stream = pyte.Stream()
>>> stream.attach(screen)
>>> stream.feed("Hello World!")
>>> screen.display
['Hello World!']
```

Alternatives

`pyte` is not alone in the weird world of terminal emulator libraries, here's a few other options worth checking out: [Termemulator](#), [pyqconsole](#), [webtty](#) [AjaxTerm](#) and of course [vt102](#).

More ...

Unfortunately, `pyte` doesn't have anything but the API documentation at the moment.