
Timeflux web app engine

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This plugin provides a framework to develop web applications that can interface with Timeflux. A monitoring web interface is bundled. It is not feature-complete yet, but it already allows you to visualize your data streams in real-time, in your browser, and to send events. Other examples include a SSVEP scheduler and a P300 speller. Both can be found in the apps directory.

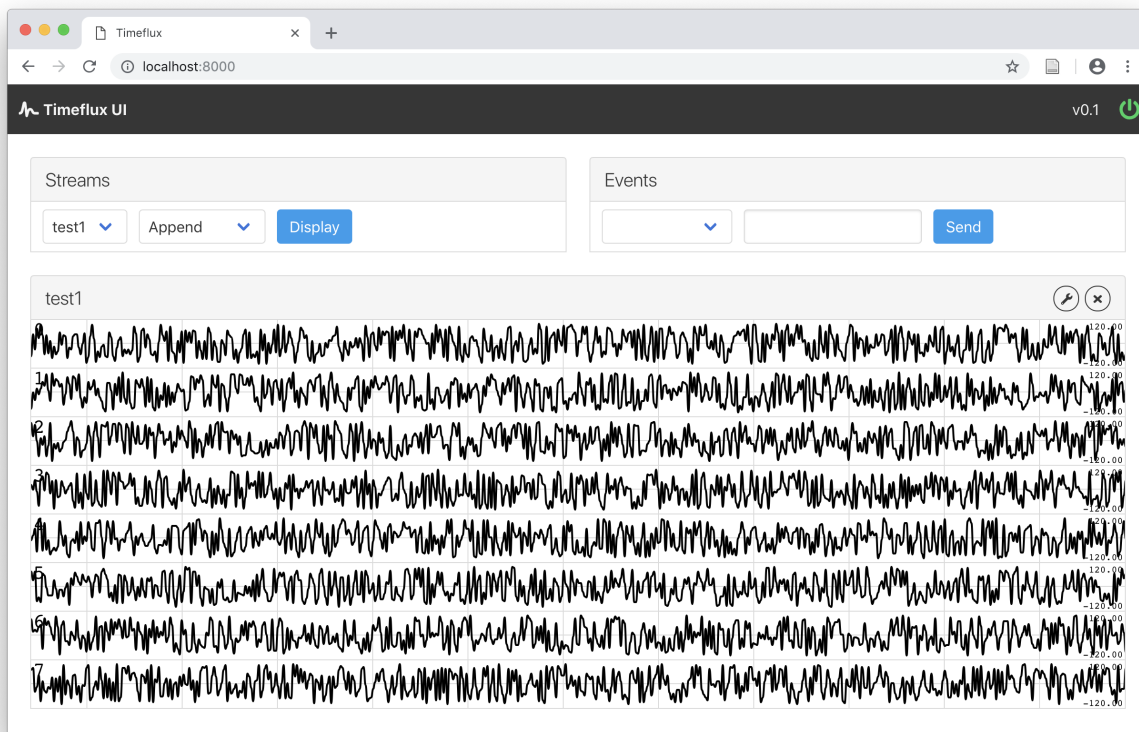
INSTALLATION

First, make sure that [Timeflux](#) is installed.

You can then install this plugin in the *timeflux* environment:

```
$ conda activate timeflux  
$ pip install timeflux_ui
```


SCREENSHOT



2.1 API Reference

This page contains auto-generated API reference documentation.

timeflux_ui

2.1.1 timeflux_ui

timeflux_ui.nodes

nodes

timeflux_ui.nodes.ui

ui

class timeflux_ui.nodes.ui.UI(*host='localhost', port=8000, routes={}, settings={}, debug=False*)

Bases: `timeflux.core.node.Node`

Interact with Timeflux from the browser.

This node provides a web interface, available at `http://localhost:8000` by default. Bi-directional communication is available through the WebSocket protocol.

A real-time data stream visualization application is provided at `http://localhost:8000/monitor/`. Other example applications (such as P300 and EEG signal quality) are provided in the `apps` directory of this package.

This node accepts any number of named input ports. Streams received from the browser are forwarded to output ports.

Variables

- `i_*` (*Port*) – Dynamic inputs, expect DataFrame.
- `o_*` (*Port*) – Dynamic outputs, provide DataFrame.

Example

```
graphs:
- nodes:
  - id: data1
    module: timeflux.nodes.random
    class: Random
    params:
      columns: 8
      rows_min: 10
      rows_max: 10
      value_min: -100
      value_max: 100
      seed: 1
  - id: data2
    module: timeflux.nodes.random
    class: Random
    params:
      columns: 2
```

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```

    rows_min: 1
    rows_max: 1
    value_min: -100
    value_max: 100
    seed: 1
- id: ui
  module: timeflux_ui.nodes.ui
  class: UI
- id: events
  module: timeflux.nodes.debug
  class: Display
- id: test
  module: timeflux.nodes.debug
  class: Display
edges:
- source: data1
  target: ui:test1
- source: data2
  target: ui:test2
- source: ui:events
  target: events
- source: data1
  target: test
rate: 5

```

Parameters

- **host** (*string*) – The host to bind to.
- **port** (*int*) – The port to listen to.
- **routes** (*dict*) – A dictionary of custom web apps. Key is the name, value is the path.
- **settings** (*dict*) – An arbitrary configuration file that will be exposed to web apps.
- **debug** (*bool*) – Show dependencies debug information.

update()

Update the input and output ports.

terminate()

Perform cleanup upon termination.

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