

PyeLink and SyeLink

Open-source Python tools for low-level EyeLink 1000 plus control and data parsing

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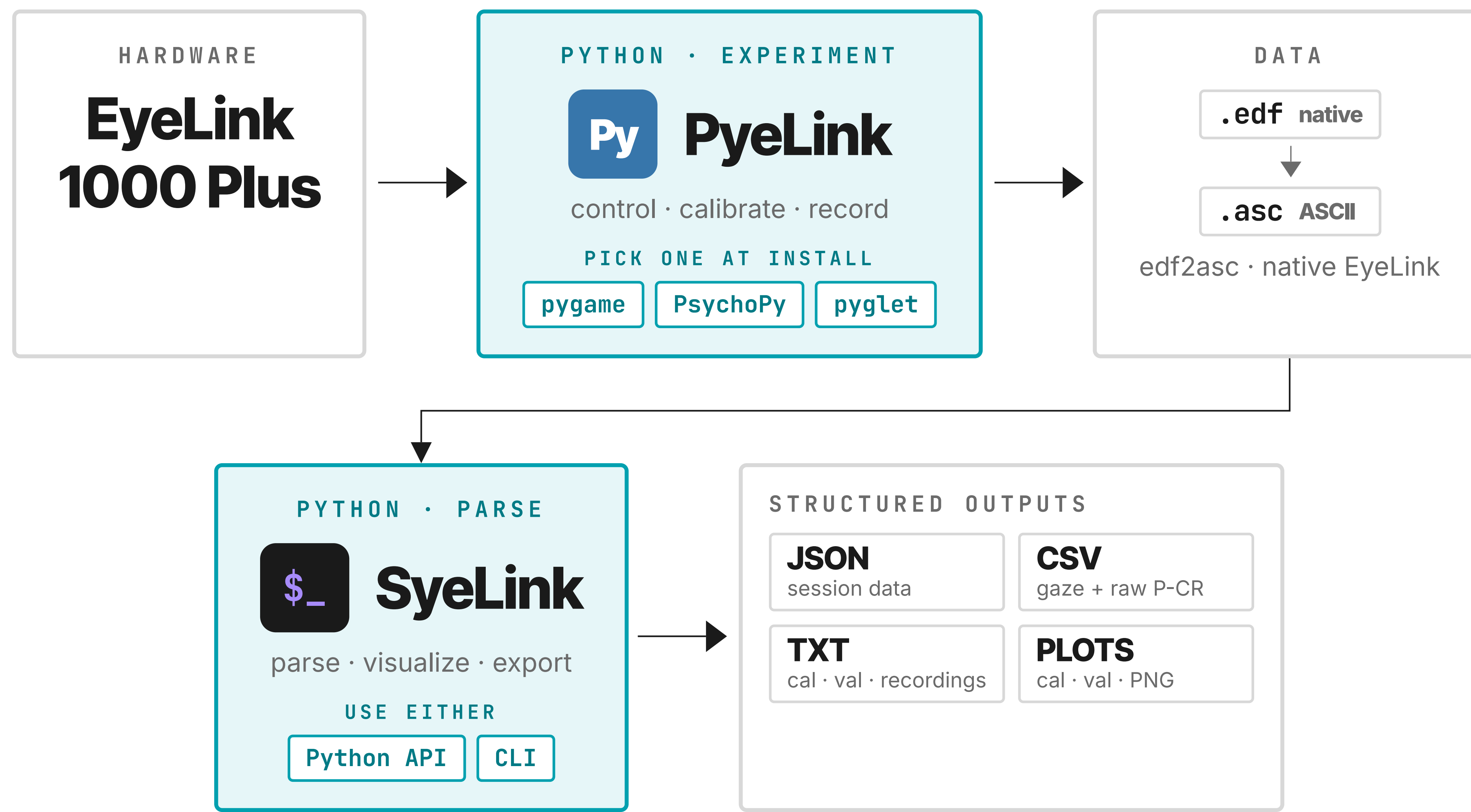
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One Python workflow for EyeLink — on any OS!



PyeLink `p[python e]yelink · experiment control`

PyeLink is a cross-platform Python wrapper around SR Research's `pylink` that gives you full control of the EyeLink 1000 Plus. Pick `pygame`, `PsychoPy`, or `pygame` as the display backend at install, then design, calibrate, and run your experiment entirely in Python — and if you need them, capture raw P-CR position and pupil size, in both camera and HREF coordinates, for the entire duration of the experiment, even during calibration!

```
import pyeLink as eL

settings = eL.Settings(
    backend='pygame', # or 'psychopy', 'pygame'
    screen_res=(1920, 1080),
    screen_distance_top_bottom=(600.0, 640.0),
    record_raw_pupil_cr=True, # raw P-CR + gaze
    filename='session_01',
)

tracker = eL.EyeLink(settings)
tracker.calibrate(record_samples=True)
tracker.start_recording()
# ... show stimuli, collect gaze ...
tracker.stop_recording(); tracker.end_experiment()
```

Py pyeLink PyPI MIT

```
pip install pyeLink[pygame]
```

docs · pyeLink.readthedocs.io
code · github.com/mh-salari/pyeLink

SyeLink `s[structured e]yelink · parse & visualize`

SyeLink reads EyeLink `.asc` files and turns them into structured JSON and CSV files, along with calibration and validation plots. It also handles files that contain raw P-CR alongside calibrated gaze — something existing parsers can't do. You can use it from the command line or as a Python library.

```
$ syeLink convert data.asc
✓ data.json          all session data
✓ data_samples.csv   gaze + raw P-CR (32 cols)
✓ calibrations.txt   validations.txt   recordings.txt

$ syeLink info data.json
$ syeLink plot-validation data.json -i 0 -o val.png
$ syeLink export-samples data.asc -o samples.csv
```

\$_ syeLink PyPI MIT

```
pip install syeLink
```

docs · syeLink.readthedocs.io
code · github.com/mh-salari/syeLink

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