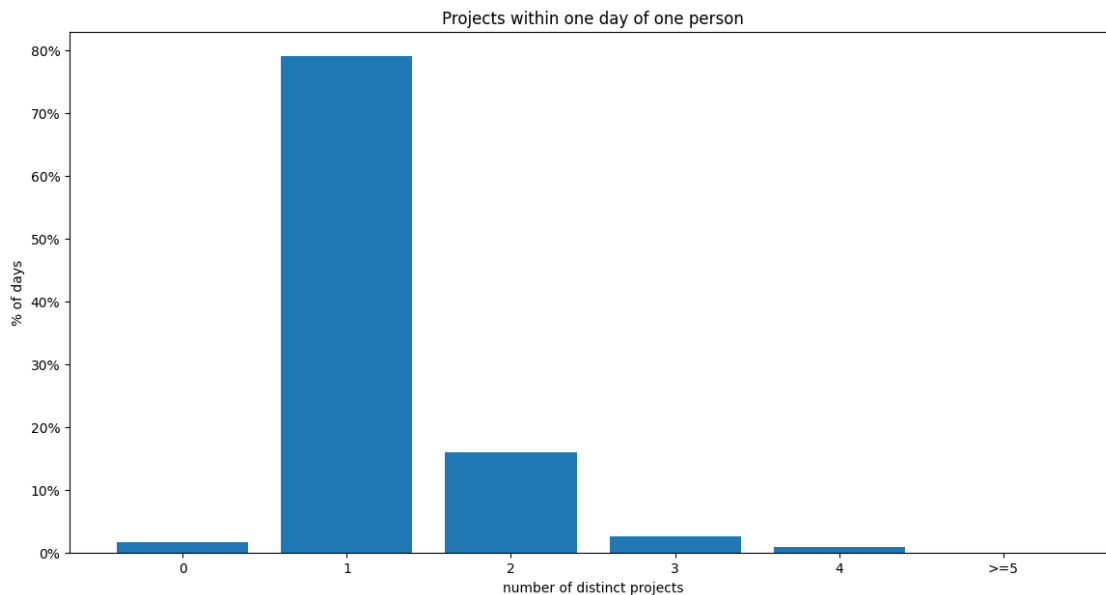# analysis

November 28, 2022

```
[ ]: %pip install jsonlines > /dev/null
     %pip install matplotlib > /dev/null
     %pip install numpy > /dev/null
```
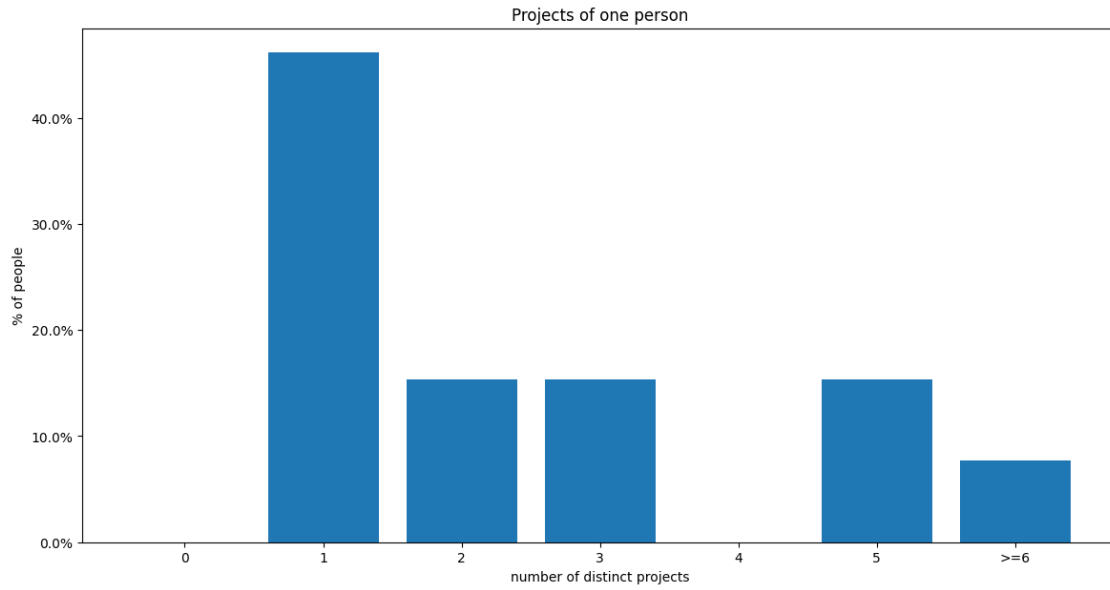
```
[1]: from Initializer import Initializer

     Initializer.run()
```

```
[2]: from plotters import PlottersBank

     plotters_bank = PlottersBank()
```
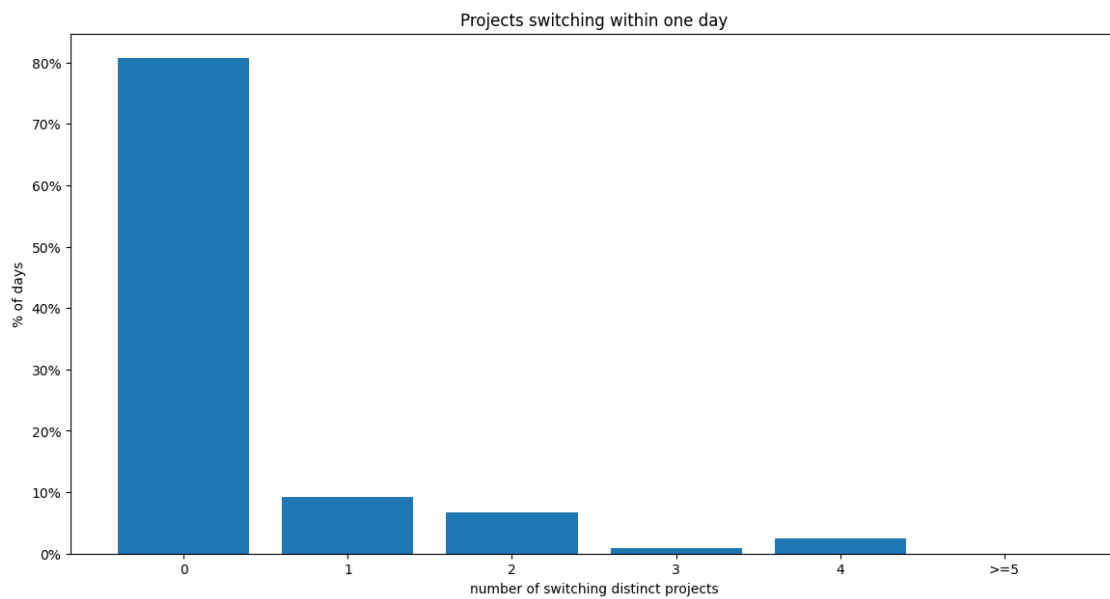
```
[3]: plotters_bank.projects_within_one_day.show()
```
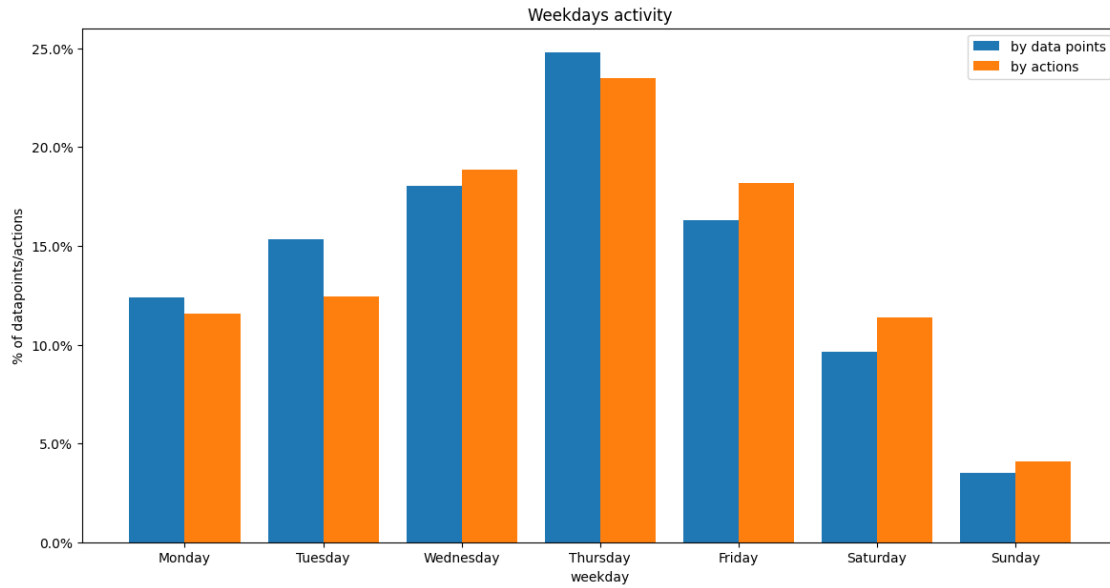


```
[4]: plotters_bank.projects_per_user.show()
```
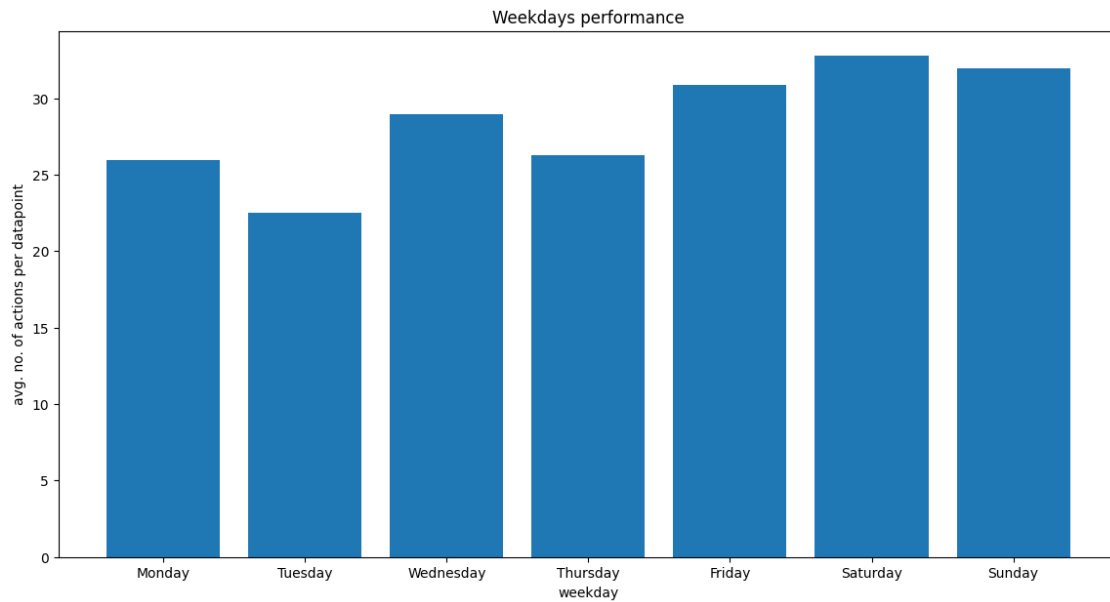
Projects of one person

Projects of one person

[5]: `plotters_bank.switching_projects.show()`

Projects switching within one day

[6]: `plotters_bank.activity_by_weekday.show()`

Weekdays activity

```
[7]: plotters_bank.performance_per_weekday.show()
```


Weekdays performance

```
[8]: plotters_bank.del_to_add.show()
```

Deletions to additions ratio
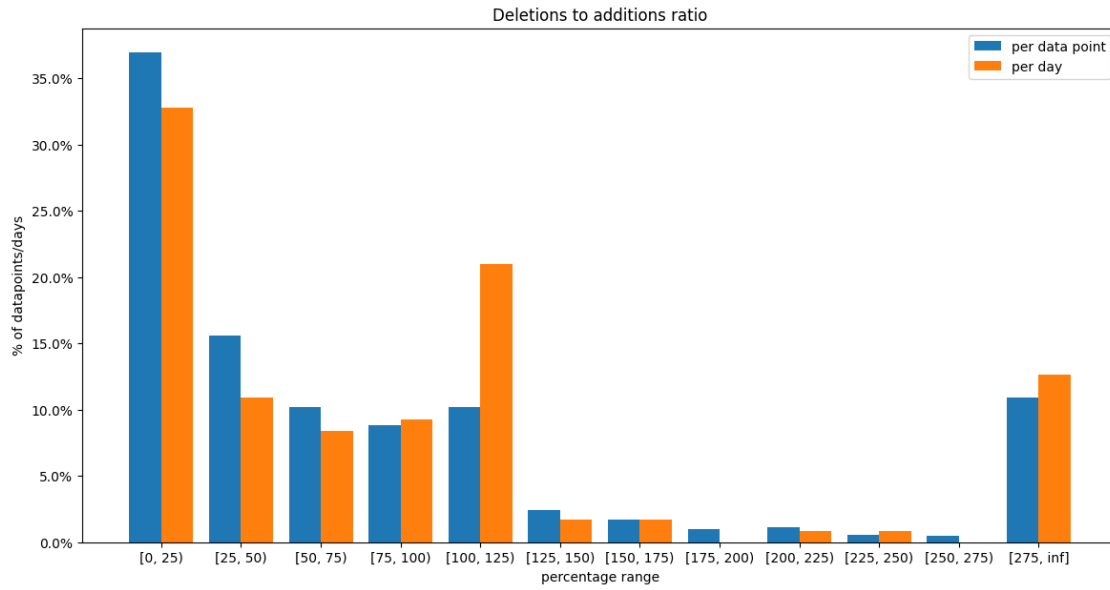
```
[9]: plotters_bank.del_to_add_langs.show()
```


Deletions to additions ratio per datapoint restricted to a language
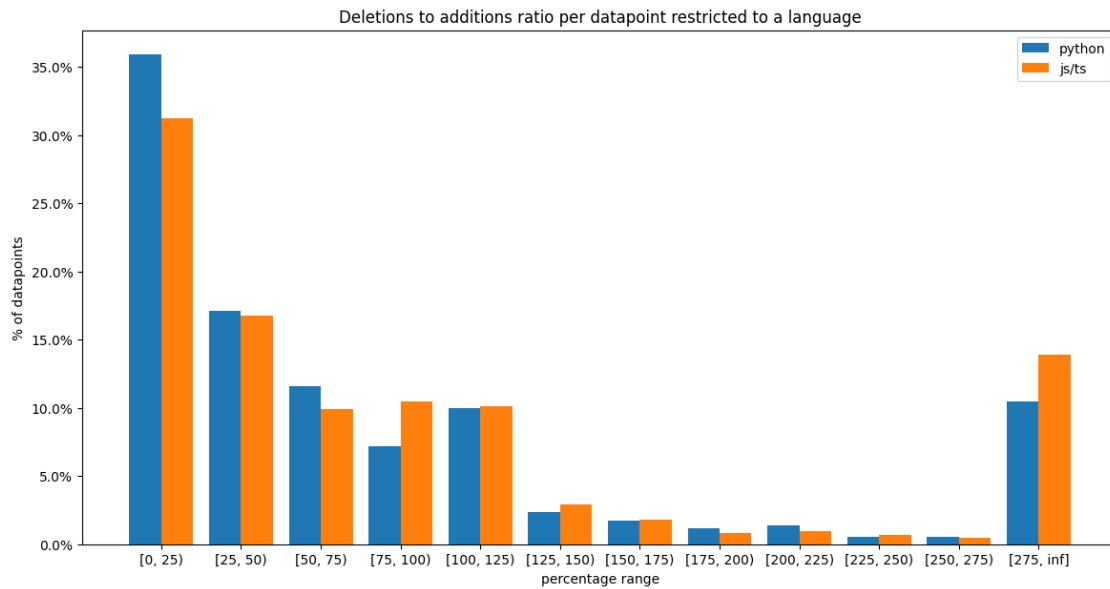
```
[10]: plotters_bank.breaks.show()
```

Distribution of break lengths

```
[11]: plotters_bank.activity_per_hour.show()
```


Activity by hour
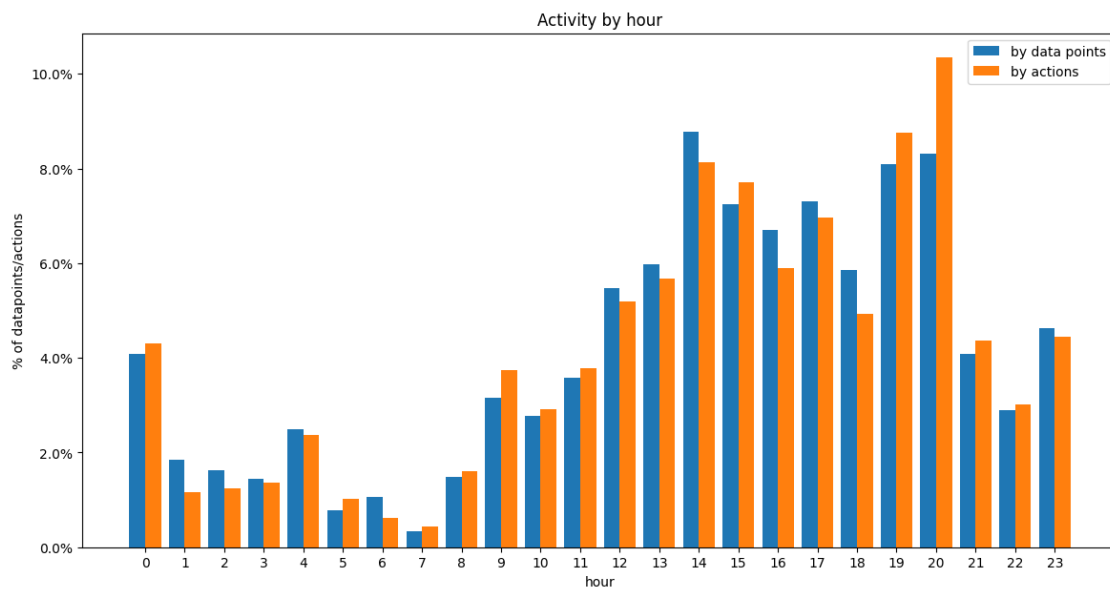
```
[12]: plotters_bank.activity_per_hour_langs.show()
```
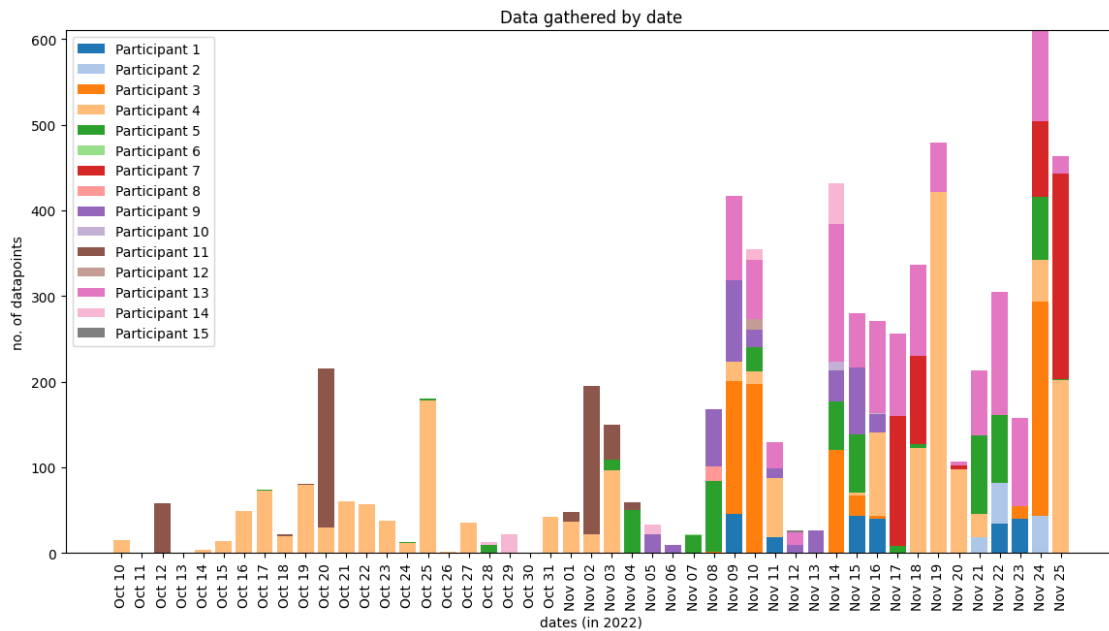
Activity by hour restricted to a language
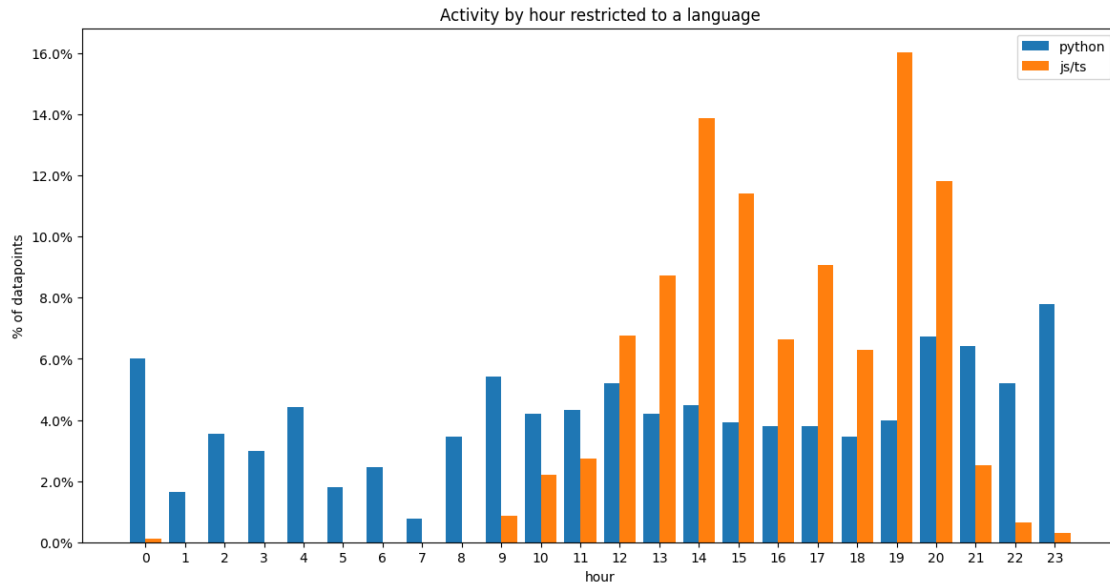
```
[13]: plotters_bank.performance_per_hour_total.show()
```


Performance by hour
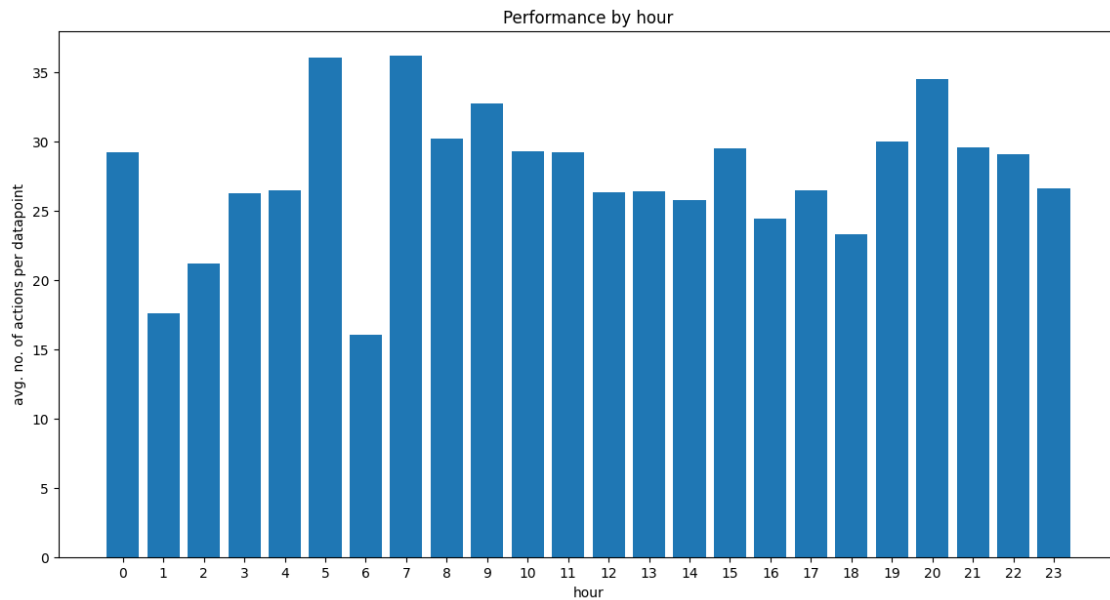
```
[14]: plotters_bank.performance_per_hour_langs.show()
```

Performance by hour restricted to a language
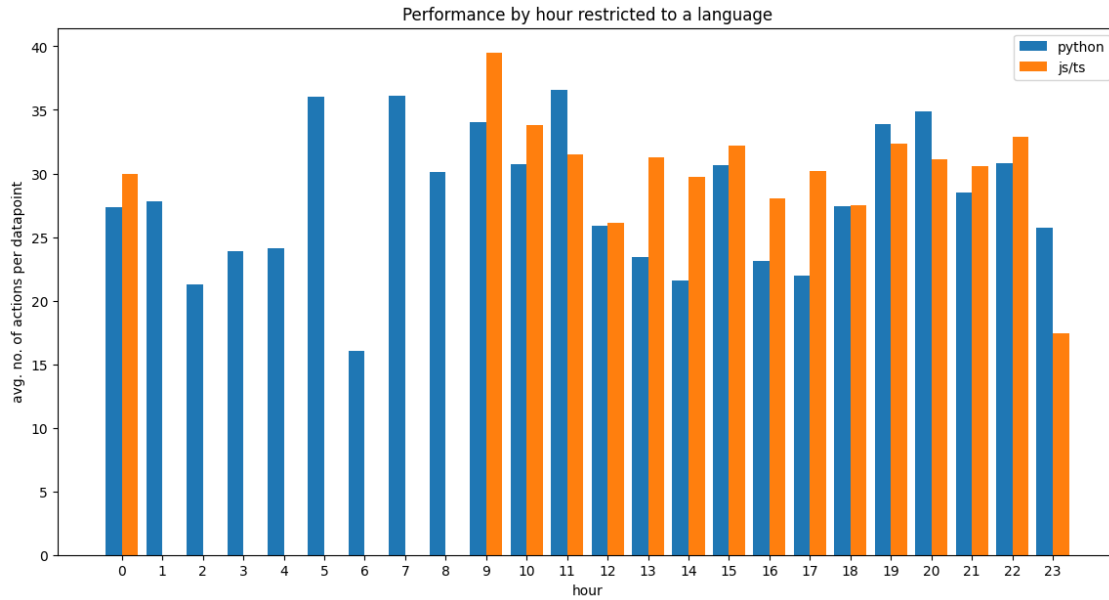
[15]: `plotters_bank.data_gathered.show()`

Data gathered by date

[16]: `plotters_bank.languages_total.show()`

Amount of data gathered by language
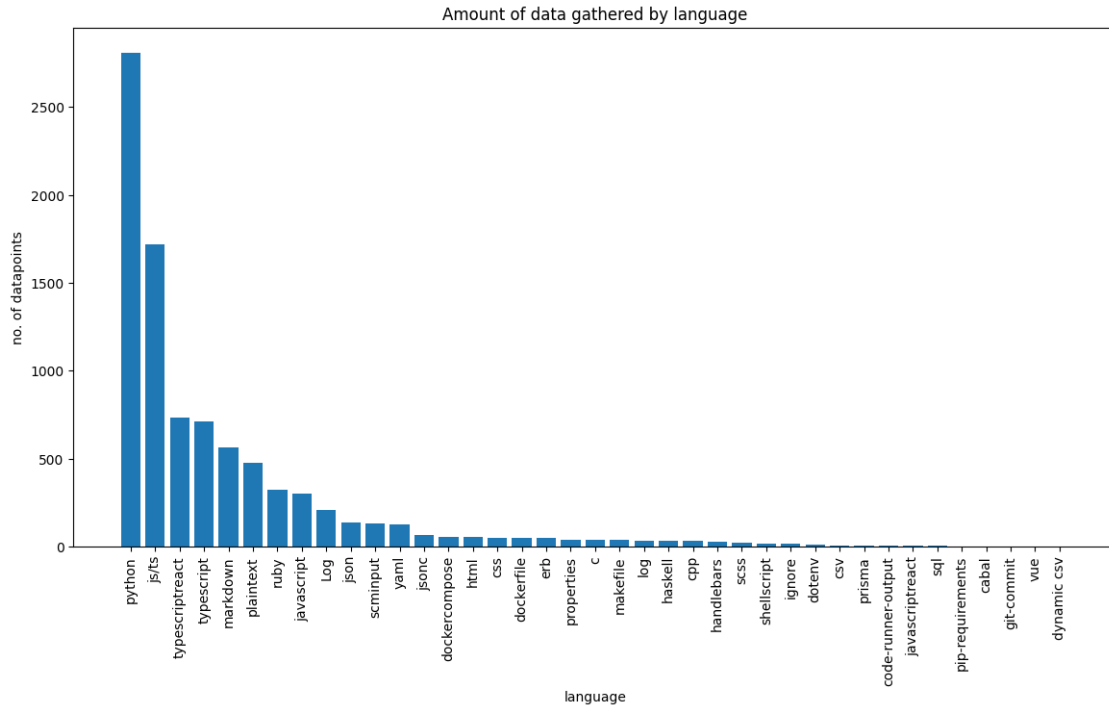
```
[1]: from datetime import datetime
     from DayVisualizer import DayVisualizer

     day_visualizer = DayVisualizer('a27a817a-fa90-44a8-8fb7-2a9ab292ed41',⎵
      ↪datetime(2022, 11, 19), 4)
     day_visualizer.show_add_and_del(save_id='add-and-del-vis')
     day_visualizer.show_actions(save_id='actions-vis')
```


Additions and deletions of the participant 4 on 19 Nov 2022

Actions of the participant 4 on 19 Nov 2022
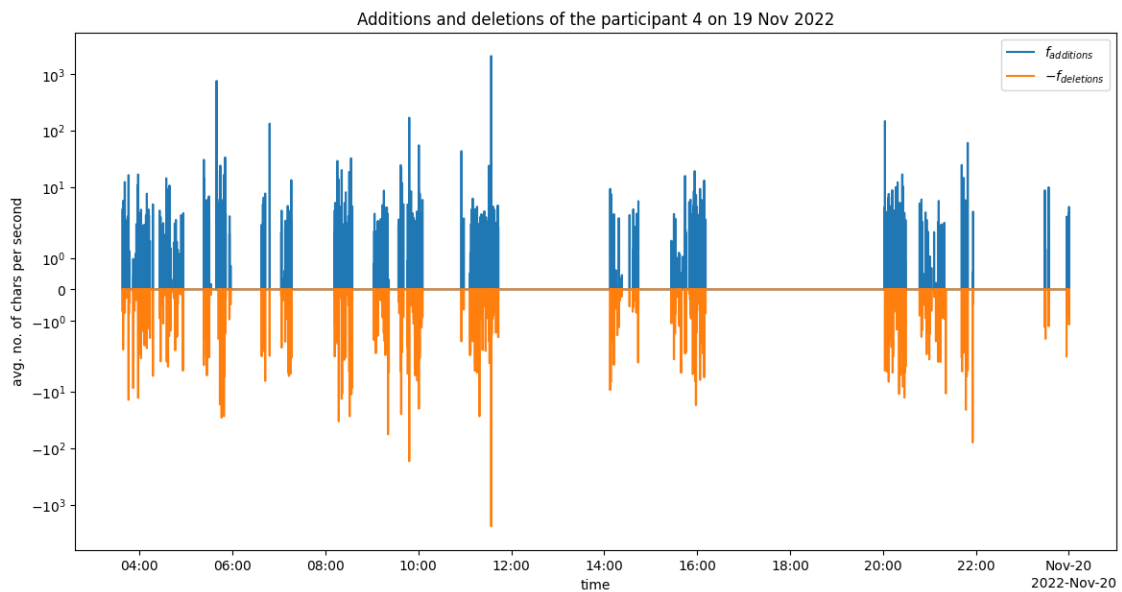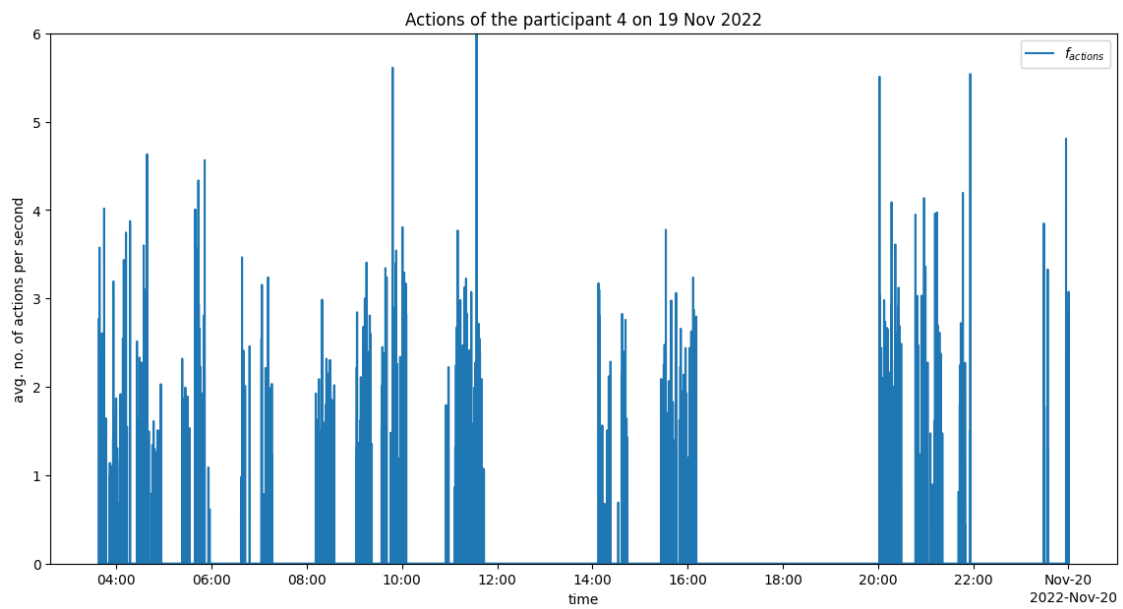
```
[ ]: !jupyter nbconvert --log-level=WARN --output-dir=.. --output=analysis --to pdf␣
     ↪analysis.ipynb
```

```
[ ]:
```