

api_timing_report

January 30, 2021

```
[110]: import pandas as pd
import matplotlib
import matplotlib.pyplot as plt
import seaborn as sns
sns.set()
matplotlib.rcParams['figure.dpi'] = 100
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[111]: df = pd.read_csv('log/api_timing.csv')
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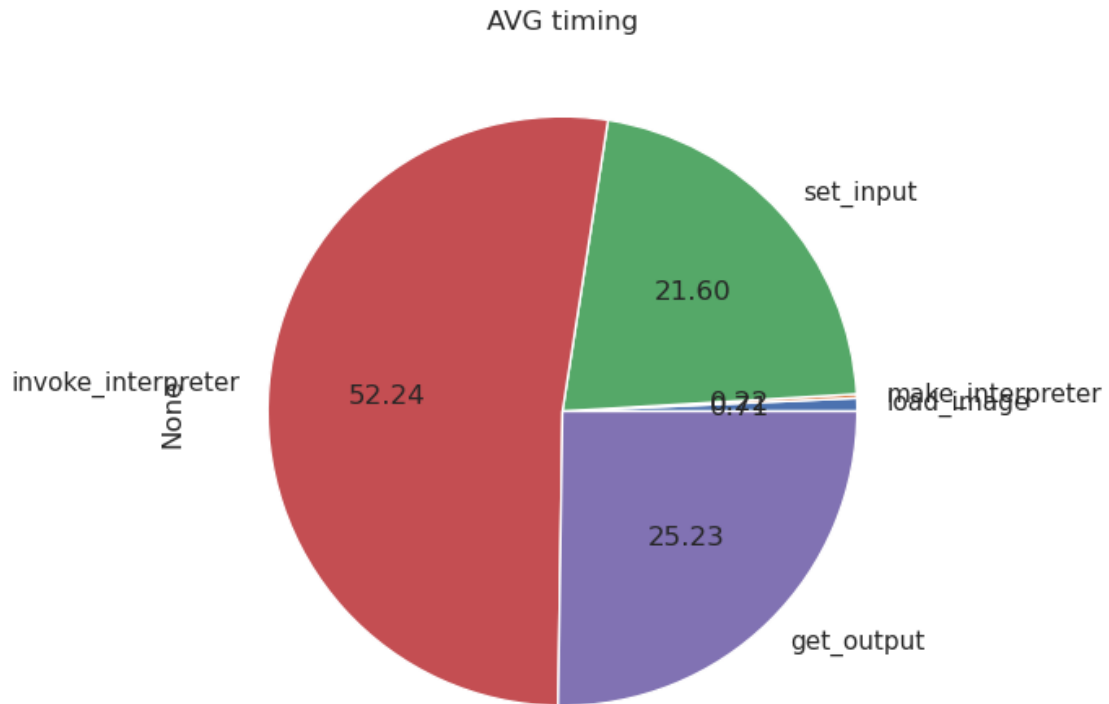
```
[112]: df.head()
```

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[112]:
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	load_image	make_interpreter	set_input	invoke_interpreter	get_output
0	21.287520	2798.166089	19.076045	46.787696	6.230875
1	0.239405	0.034221	8.984381	17.150011	3.372832
2	0.238349	0.032055	7.545508	16.935477	3.922326
3	0.247942	0.032018	7.584377	16.817237	4.120250
4	0.243053	0.032351	7.763690	16.859181	3.746939

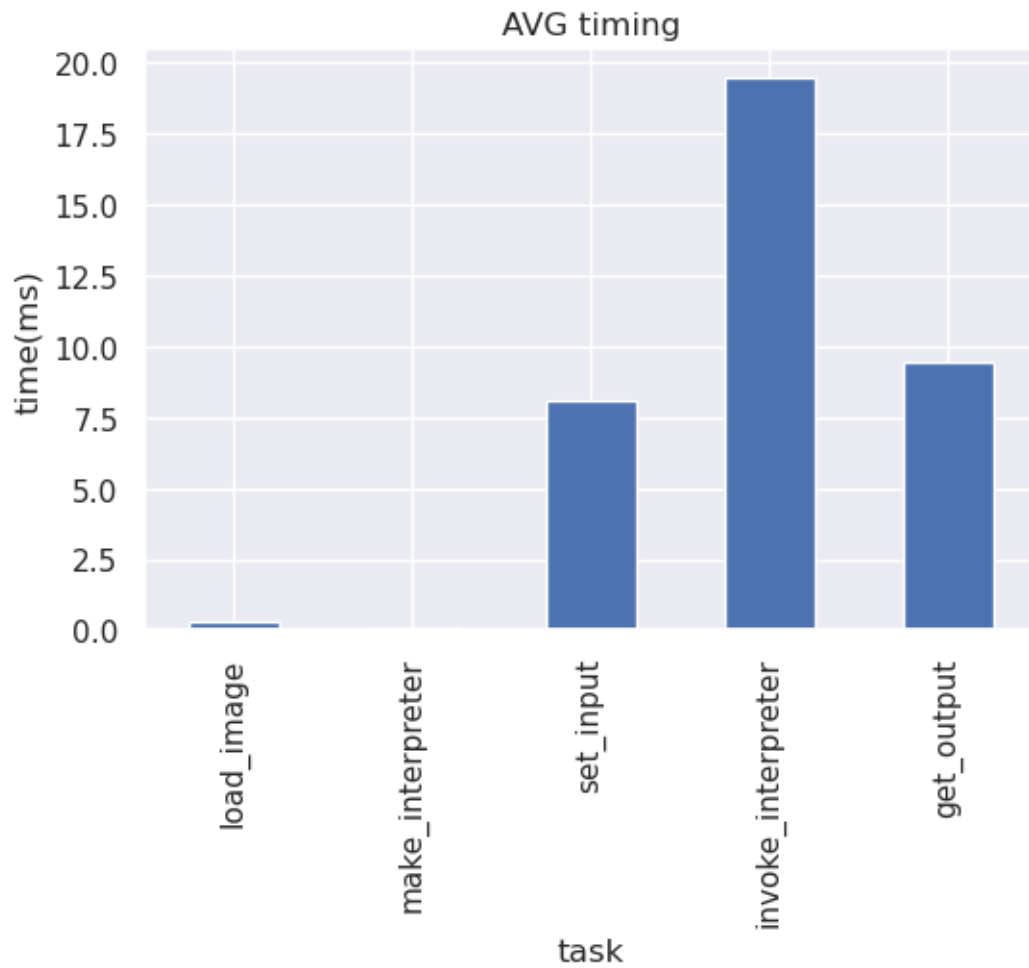
```
[113]: plt.figure()
df.mean(axis=0).plot(kind='pie', title='AVG timing',
                      figsize=(6, 6), autopct="%.2f")
```

```
[113]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbe081a8d50>
```



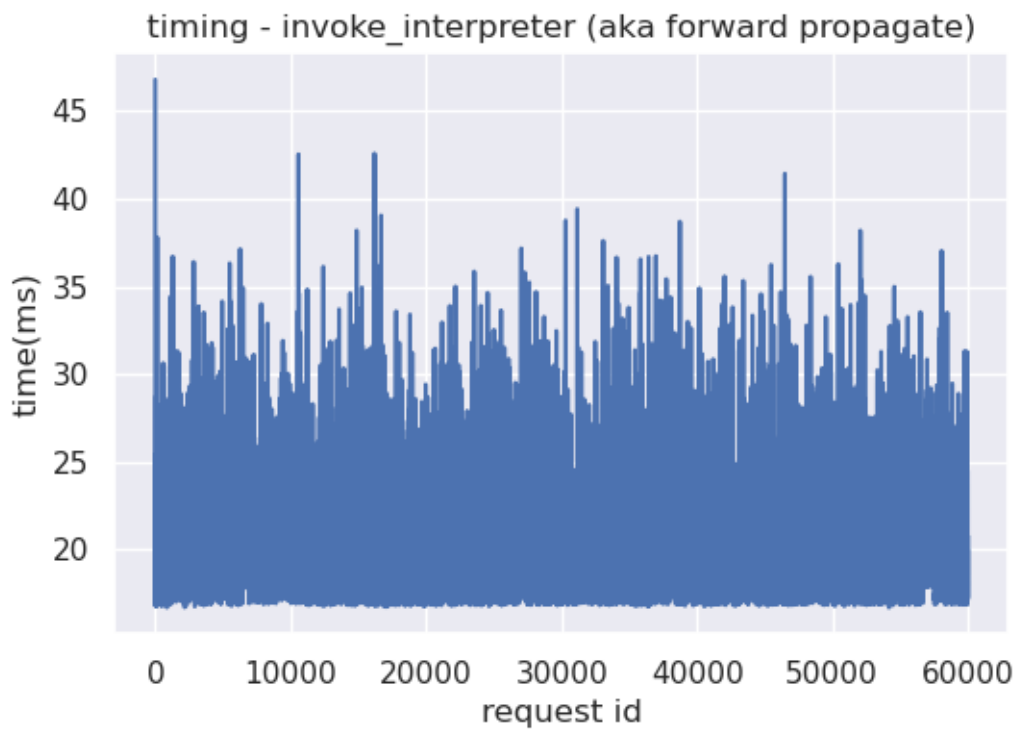
```
[114]: df.mean(axis=0).plot(kind='bar', title='AVG timing',  
                                ylabel='time(ms)', xlabel='task')
```

```
[114]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbe08096b90>
```



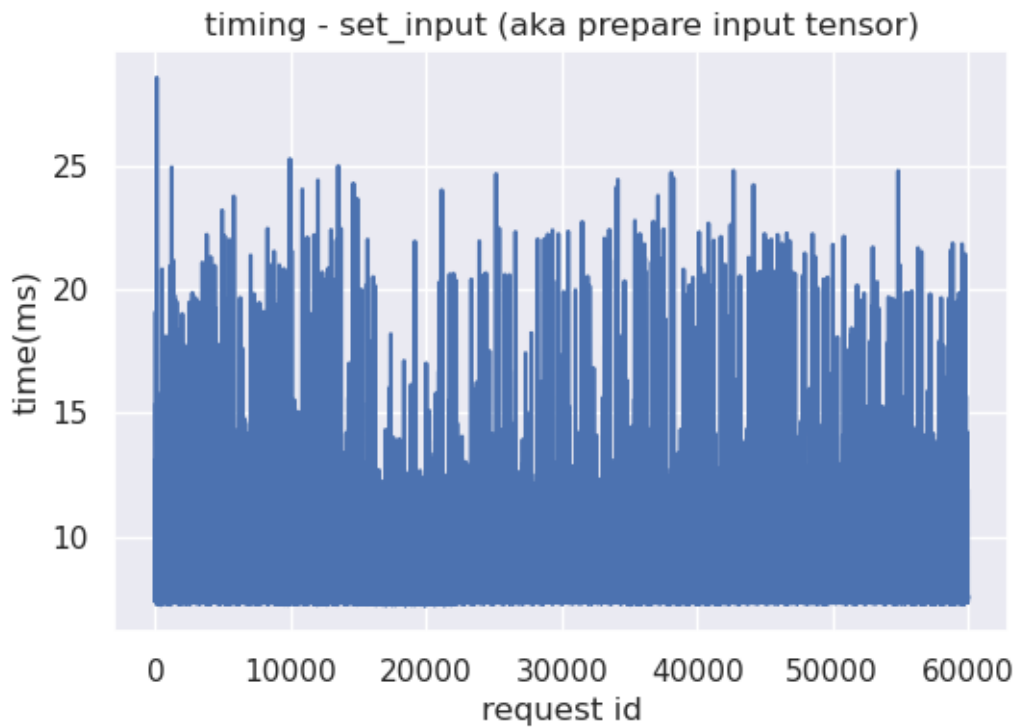
```
[115]: df['invoke_interpreter'].plot(title='timing - invoke_interpreter (aka forward_
      ↳propagate)',
      ylabel='time(ms)', xlabel='request id')
```

```
[115]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbdf3fc0750>
```



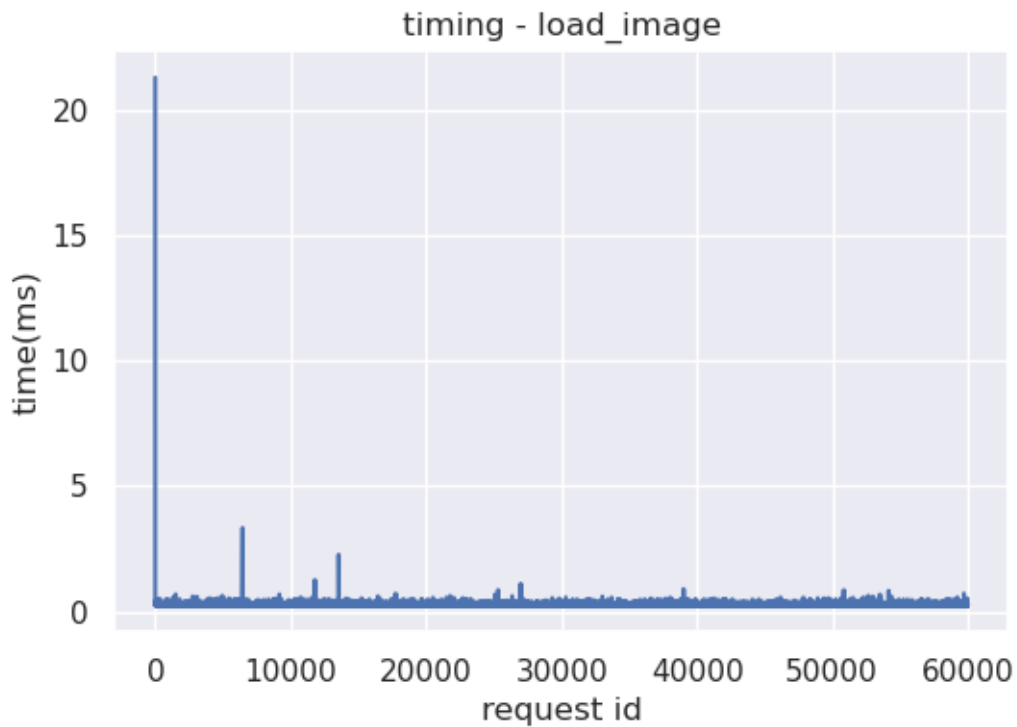
```
[116]: df['set_input'].plot(title='timing - set_input (aka prepare input tensor)',  
                           ylabel='time(ms)', xlabel='request id')
```

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[116]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbdf3f94650>
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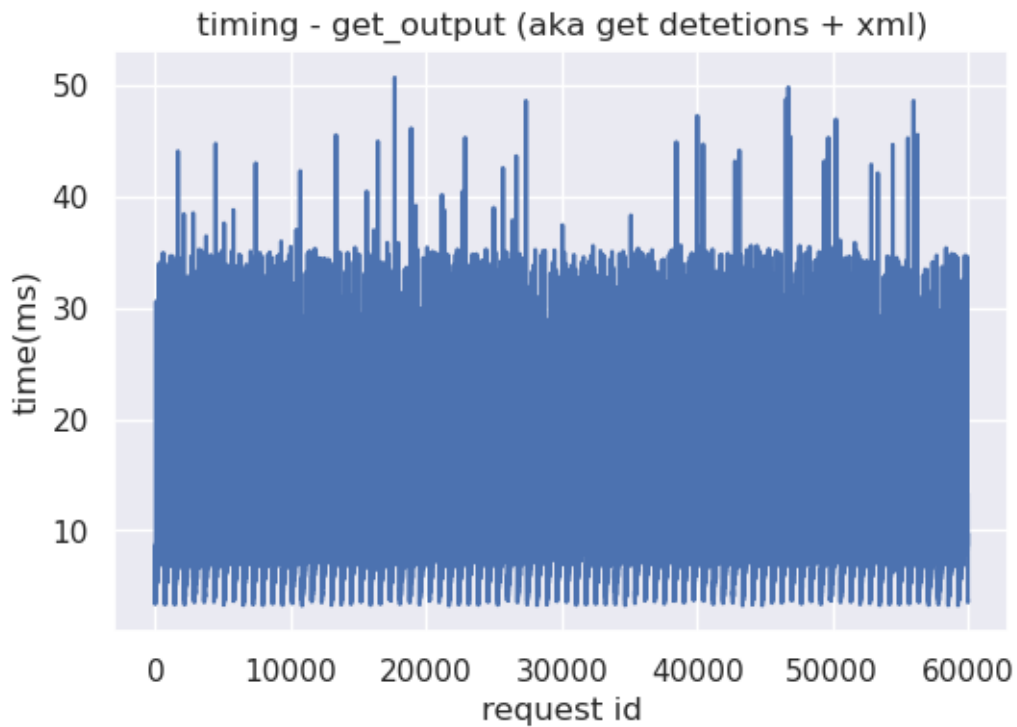
```
[117]: df['load_image'].plot(title='timing - load_image',  
                             ylabel='time(ms)', xlabel='request id')
```

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[117]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbdf3839d90>
```



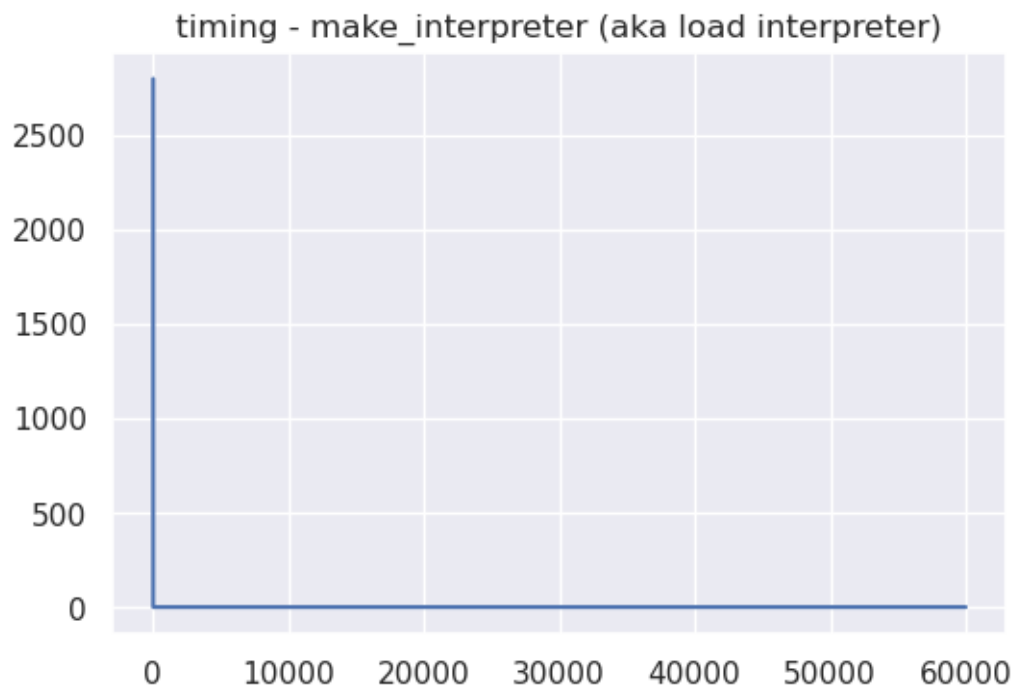
```
[118]: plt.figure();  
df['get_output'].plot(title='timing - get_output (aka get detetions + xml)',  
                      ylabel='time(ms)', xlabel='request id')
```

```
[118]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbe08107350>
```

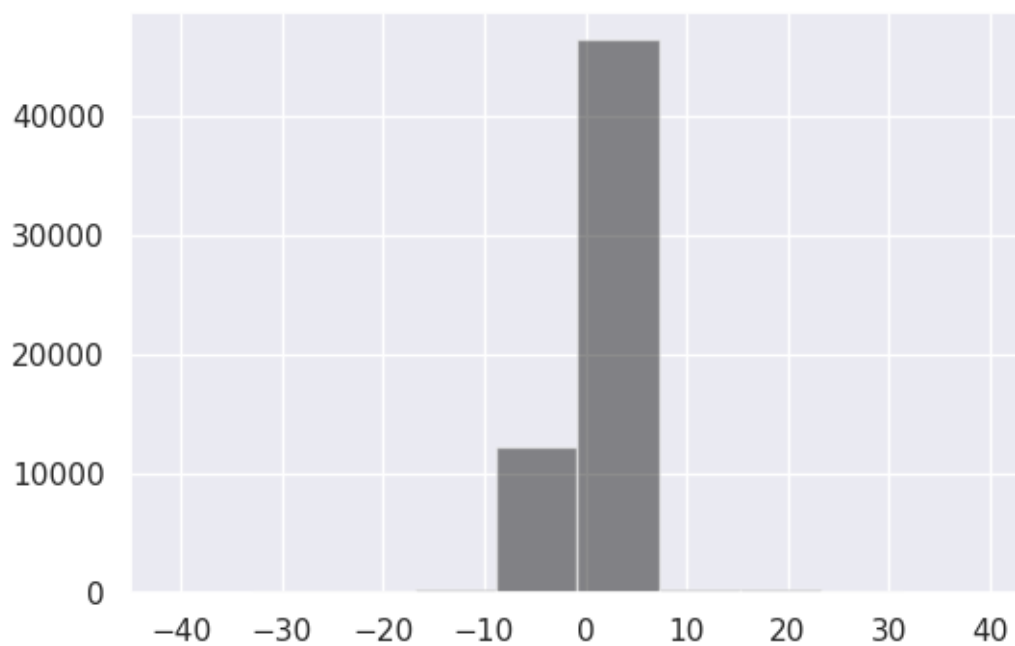


```
[119]: df['make_interpreter'].plot(title='timing - make_interpreter (aka load_↪  
↪interpreter)')
```

```
[119]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbdf30ec690>
```

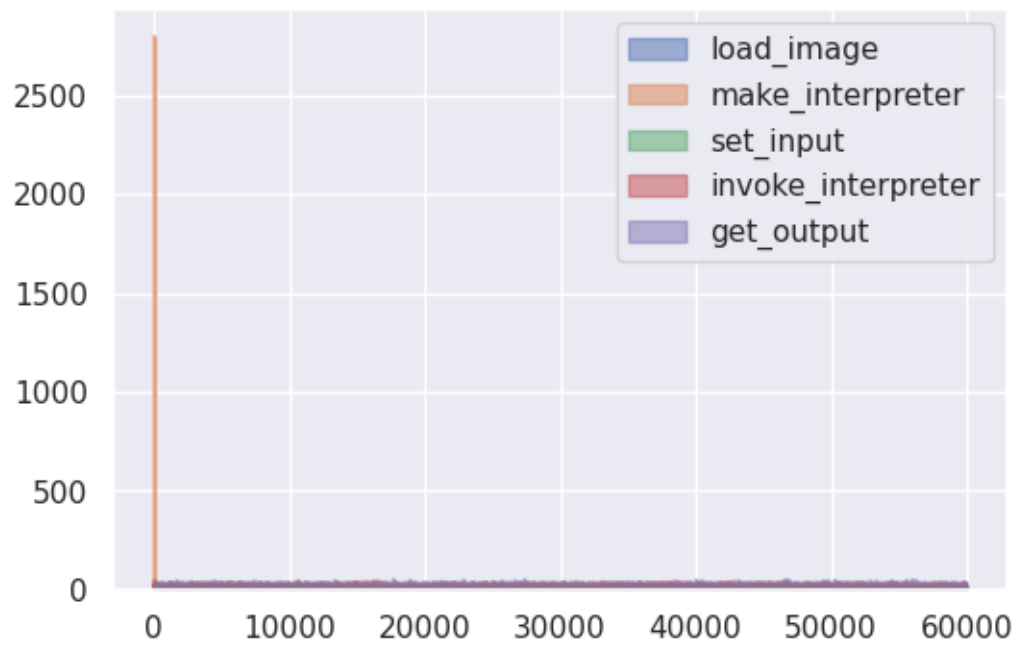


```
[120]: plt.figure();  
df['get_output'].diff().hist(color="k", alpha=0.5, bins=10);
```




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[121]: df.plot.area(stacked=False)
```

```
[121]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbdf2fe7c90>
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