

Jupyter notebook

网址里: new>python3

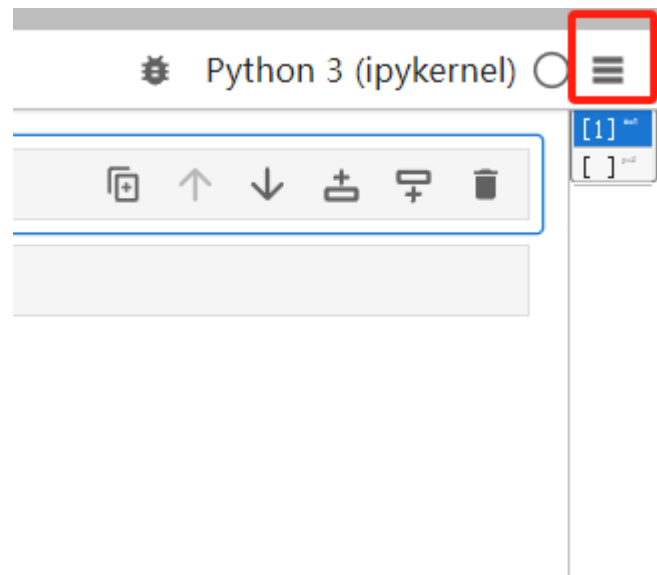
Jupyter lab

Shift+enter 运行并下移

Esc 命令模式 enter 编写模式

在单元格 (Cell) 的命令模式下, 按 **j** 选择下一个, 按 **k** 选择上一个, 按 **a** 在上方添加, 按 **b** 在下方添加, 按 **dd** 删除, 按住 **shift** 多选, 按 **x** 剪切, 按 **c** 复制, 按 **v** 粘贴, 按 **Shift+M** 合并, 按 **z** 撤销, 按 **Shift+z** 重做, 按 **Shift+L** 显示/隐藏代码行号

合并: 按住 **shift**, 再选中想合并的另一行, 摁 **m** 合并



最后一行是表达式可以输出

```
[2]: x=1
      y=2
      print(x*y)
      y**2
```

2

```
[2]: 4
```

, 序号为 **i** 的输出, 可以用 **_i** 变量来引用

每隔 3 秒输出 hello

```
import time
while True:
    print("hello")
    time.sleep(3)
```

选中运行中的行, 摁 **ii**, 终止运行; 终端里 **ctrl+c** 打断

◦ 在单元格 (Cell) 的命令模式下, 按 `00` 重启后端 Python 解释器 (被 Jupyter 称为 Kernel), 重启后需要从上至下重新运行一遍代码 (`Shift+Enter`), 运行前建议先在菜单里选择 “Edit / Clear Outputs of All Cells” 清空全部页面显示的输出

› 在单元格 (Cell) 的命令模式下, 按 `m` 切换至 **Markdown 模式**, 按 `y` 切换至 **Python 模式**
前面无[]是 markdone 模式

复制大模型里的回答到 jupyter notebook 里面, 切换为 markdone 模式, 运行

不支持 CSS,HTML 代码,

Ctrl+C 打断运行中的服务, 回到 Bash 提示符

安装

```
dependencies:
- python=3.12
- wat-inspector
- jupyterlab
- pip
- pip:
- tushare
```

更新环境: `conda env update`

Tushare 的使用:

`lpython>>import tushare as ts>>`

```
import tushare as ts

pro=ts.pro_api()

df=pro.new_share()

df
```

接口是 new_share, 接入数据指令

`df.to_parquet("new_share.parquet")`

```
df=pro.stock_basic(fields="ts_code,symbol,name,industry,full
name,ennname,cnspell,market,exchange,curr_type,list_date,del
ist_date,is_he,act_name,act_ent_type")
```

```
import polars as pl
from perspective.widget import PerspectiveWidget
```

```
d1=pl.read_parquet("new_share.parquet")
d2=pl.read_parquet("stock_basic.parquet")
```

```
d1.with_columns(
    ipo_date=pl.col.ipo_date.str.to_date("%Y%m%d"),
    issue_date=pl.col.issue_date.str.to_date("%Y%m%d")
)
```

把 `d1` 或 `d2` 作为参数传递给 `perspective.widget.PerspectiveWidget` 类型进行初始化,

```
from perspective.widget import PerspectiveWidget
```

```
PerspectiveWidget
```

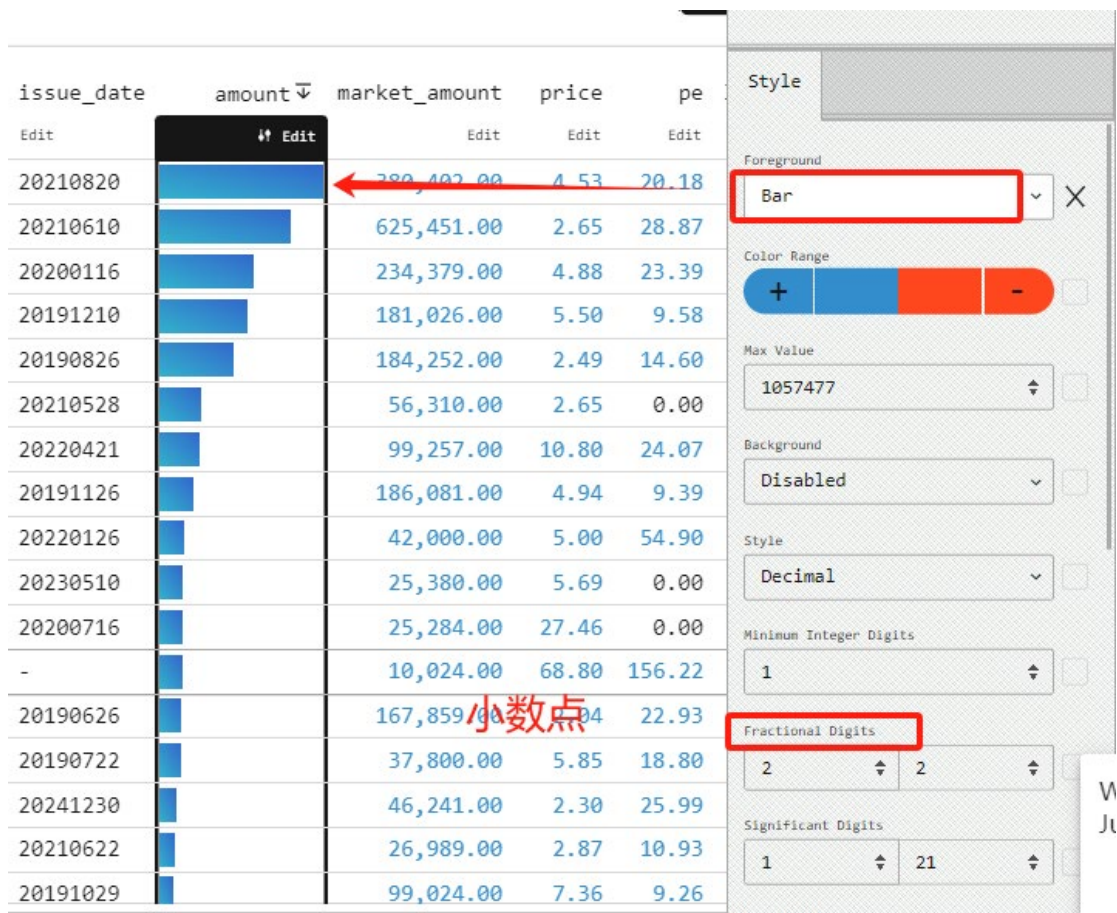
```
perspective.widget.widget.PerspectiveWidget
```

```
: PerspectiveWidget(d2)
```

```
: name
```

↕ Edit

点击 edit



Split by 变横轴



新建变量，双引号扩起变量名

变量名

新建一列

The screenshot shows a data tool interface. On the left, a sidebar lists various data sources. The main area is divided into two panels. The left panel, titled 'Attributes', contains an 'Expression' field with the formula `"market_amount" / "amount"` highlighted by a red box. Above this field, a text input contains '上网发行比例' (Internet Issuance Ratio), also highlighted by a red box. A red label '变量名' (Variable Name) points to this input. Below the expression field is a 'CREATE' button. The right panel, titled 'Columns', lists various data fields: `ts_code`, `sub_code`, `name`, `ipo_date`, `issue_date`, `# amount`, `# market_amount`, `# price`, `# pe`, `# limit_amount`, `# funds`, and `# ballot`. At the bottom of this panel, a button labeled `fX NEW COLUMN` is highlighted by a red box. A red label '新建一列' (New Column) points to this button.

导出

The screenshot shows a data tool interface with a menu open. The menu is titled 'Save as' and lists several options: `untitled`, `untitled.csv`, `untitled.json`, `untitled.ndjson`, `untitled.arrow`, and `untitled.html`. Below these options, there is a section labeled 'All' with options: `untitled.all.csv`, `untitled.all.json`, `untitled.all.ndjson`, and `untitled.all.arrow`. At the bottom of the menu, there is a section labeled 'Config' with the option: `untitled.config.json`. The menu is triggered by a button in the top toolbar, which is highlighted by a red box.

Where 区域: xx is not null

Y bar 直方图

新建变量 bucket(pe,10)

Y line 图 单引号 m

The screenshot shows a data visualization tool interface. On the left, the 'Expression' field contains the formula `1 bucket("ipo_date", 'M')`, which is highlighted with a red box. A red arrow points from this box to the text **m按月分桶**. Below the expression field is a 'CREATE' button. On the right, the 'Y Line' chart configuration is shown. The 'Group By' field contains `ipo_date`. The 'Split By' and 'Order By' fields are empty. The 'Where' field is empty. At the bottom, the 'All Columns' list includes `act_ent_type`, `act_name`, `area`, `cnsPELL`, `curr_type`, and `delist_date`.

分成小散点图, split by