


```
IPython: C:\liu\week07

\week07\lib\site-packages (from requests->tushare) (2.3.0)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\liu\anaconda3\envs\week07\lib\site-packages (from requests->tushare) (2025.1.31)
Requirement already satisfied: colorama in c:\users\liu\anaconda3\envs\week07\lib\site-packages (from tqdm->tushare) (0.4.6)
Requirement already satisfied: six>=1.5 in c:\users\liu\anaconda3\envs\week07\lib\site-packages (from python-dateutil>=2.8.2->pandas->tushare) (1.17.0)
Requirement already satisfied: soupsieve>1.2 in c:\users\liu\anaconda3\envs\week07\lib\site-packages (from beautifulsoup4->bs4->tushare) (2.5)
Downloading tushare-1.4.21-py3-none-any.whl (142 kB)
Downloading bs4-0.0.2-py2.py3-none-any.whl (1.2 kB)
Downloading lxml-5.4.0-cp312-cp312-win_amd64.whl (3.8 MB)
3.8/3.8 MB 5.4 MB/s eta 0:00:00
Downloading pandas-2.2.3-cp312-cp312-win_amd64.whl (11.5 MB)
11.5/11.5 MB 3.8 MB/s eta 0:00:00
Downloading simplejson-3.20.1-cp312-cp312-win_amd64.whl (75 kB)
Downloading tqdm-4.67.1-py3-none-any.whl (78 kB)
Downloading numpy-2.2.5-cp312-cp312-win_amd64.whl (12.6 MB)
12.6/12.6 MB 3.9 MB/s eta 0:00:00
Downloading pytz-2025.2-py2.py3-none-any.whl (509 kB)
Downloading tzdata-2025.2-py2.py3-none-any.whl (347 kB)
Installing collected packages: pytz, tzdata, tqdm, simplejson, numpy, lxml, pandas, bs4, tushare
Successfully installed bs4-0.0.2 lxml-5.4.0 numpy-2.2.5 pandas-2.2.3 pytz-2025.2 simplejson-3.20.1 tqdm-4.67.1 tushare-1.4.21 tzdata-2025.2
Note: you may need to restart the kernel to use updated packages.

In [2]: import tushare as ts
...: ts.set_token("3809bdad4abadcecefdb5ec2057298a0cbad73013ca65f7830ce4af")
...:

In [3]: pro = ts.pro_api()
...: df = pro.stock_basic(exchange='', list_status='L', fields='ts_code,symbol,name,area,industry,list_date')
...:
...: print(df.head())
...:
    ts_code symbol name area industry list_date
0 000001.SZ 000001 平安银行 深圳 银行 19910403
1 000002.SZ 000002 万科A 深圳 全国地产 19910129
2 000004.SZ 000004 国华网安 深圳 软件服务 19910114
3 000006.SZ 000006 深振业A 深圳 区域地产 19920427
4 000007.SZ 000007 全新好 深圳 其他商业 19920413

In [4]:
```

```
IPython: C:\liu\week07

\week07\lib\site-packages (from requests->tushare) (2.3.0)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\liu\anaconda3\envs\week07\lib\site-packages (from requests->tushare) (2025.1.31)
Requirement already satisfied: colorama in c:\users\liu\anaconda3\envs\week07\lib\site-packages (from tqdm->tushare) (0.4.6)
Requirement already satisfied: six>=1.5 in c:\users\liu\anaconda3\envs\week07\lib\site-packages (from python-dateutil>=2.8.2->pandas->tushare) (1.17.0)
Requirement already satisfied: soupsieve>1.2 in c:\users\liu\anaconda3\envs\week07\lib\site-packages (from beautifulsoup4->bs4->tushare) (2.5)
Downloading tushare-1.4.21-py3-none-any.whl (142 kB)
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Downloading simplejson-3.20.1-cp312-cp312-win_amd64.whl (75 kB)
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Installing collected packages: pytz, tzdata, tqdm, simplejson, numpy, lxml, pandas, bs4, tushare
Successfully installed bs4-0.0.2 lxml-5.4.0 numpy-2.2.5 pandas-2.2.3 pytz-2025.2 simplejson-3.20.1 tqdm-4.67.1 tushare-1.4.21 tzdata-2025.2
Note: you may need to restart the kernel to use updated packages.

In [2]: import tushare as ts
...: ts.set_token("3809bdad4abadcecefdb5ec2057298a0cbad73013ca65f7830ce4af")
...:

In [3]: pro = ts.pro_api()
...: df = pro.stock_basic(exchange='', list_status='L', fields='ts_code,symbol,name,area,industry,list_date')
...:
...: print(df.head())
...:
   ts_code symbol name area industry list_date
0 000001.SZ 000001 平安银行 深圳 银行 19910403
1 000002.SZ 000002 万科A 深圳 全国地产 19910129
2 000004.SZ 000004 国华网安 深圳 软件服务 19910114
3 000006.SZ 000006 深振业A 深圳 区域地产 19920427
4 000007.SZ 000007 全新好 深圳 其他商业 19920413

In [4]:
Do you really want to exit ([y]/n)? y
```

```
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In [1]: import tushare as ts
...:
...: pro = ts.pro_api()
...: df = pro.new_share()
...: df.to_parquet("new_share.parquet")
...:

-----  
ImportError                                     Traceback (most recent call last)
Cell In[1], line 5
      3 pro = ts.pro_api()
      4 df = pro.new_share()
----> 5 df.to_parquet("new_share.parquet")

File ~/anaconda3\envs\week07\Lib\site-packages\pandas\util\_decorators.py:333, in deprecate_nonkeyword_arguments.
<locals>.decorate.<locals>.wrapper(*args, **kwargs)
    327 if len(args) > num_allow_args:
    328     warnings.warn(
    329         msg.format(arguments=_format_argument_list(allow_args)),
    330         FutureWarning,
    331         stacklevel=find_stack_level(),
    332     )
--> 333 return func(*args, **kwargs)

File ~/anaconda3\envs\week07\Lib\site-packages\pandas\core\frame.py:3113, in DataFrame.to_parquet(self, path, engine, compression, index, partition_cols, storage_options, **kwargs)
   3032 """
   3033 Write a DataFrame to the binary parquet format.
   3034
(...). 3109 >>> content = f.read()
3110 ...
3111 from pandas.io.parquet import to_parquet
-> 3113 return to_parquet(
3114     self,
3115     path,
3116     engine,
3117     compression=compression,
3118     index=index,
3119     partition_cols=partition_cols,
3120     storage_options=storage_options,
3121     **kwargs,
3122 )

File ~/anaconda3\envs\week07\Lib\site-packages\pandas\io\parquet.py:476, in to_parquet(df, path, engine, compression, index, storage_options, partition_cols, filesystem, **kwargs)
   474 if isinstance(partition_cols, str):
   475     partition_cols = [partition_cols]
--> 476 impl = get_engine(engine)
477 path_or_buf: FilePath | WriteBuffer[bytes] = io.BytesIO() if path is None else path
478 impl.write(
481     df,
482     path_or_buf,
483     ...). 488 **kwargs,
489 )

File ~/anaconda3\envs\week07\Lib\site-packages\pandas\io\parquet.py:67, in get_engine(engine)
   64     except ImportError as err:
   65         error_msgs += "\n - " + str(err)
--> 67     raise ImportError(
68         "Unable to find a usable engine; "
69         "tried using: 'pyarrow', 'fastparquet'.\n"
70         "A suitable version of "
71         "pyarrow or fastparquet is required for parquet "
72         "support.\n"
73         "Trying to import the above resulted in these errors:"
74         f"\n{error_msgs}"
75     )
77 if engine == "pyarrow":
78     return PyArrowImpl()

ImportError: Unable to find a usable engine; tried using: 'pyarrow', 'fastparquet'.
A suitable version of pyarrow or fastparquet is required for parquet support.
Trying to import the above resulted in these errors:
```

```
IPython: C:\liu\week07
65     error_msgs += "\n - " + str(err)
--> 67     raise ImportError(
68         "Unable to find a usable engine; "
69         "tried using: 'pyarrow', 'fastparquet'.\n"
70         "A suitable version of "
71         "pyarrow or fastparquet is required for parquet "
72         "support.\n"
73         "Trying to import the above resulted in these errors:"
74         f"\n{error_msgs}"
75     )
77 if engine == "pyarrow":
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ImportError: Unable to find a usable engine; tried using: 'pyarrow', 'fastparquet'.
A suitable version of pyarrow or fastparquet is required for parquet support.
Trying to import the above resulted in these errors:
- Missing optional dependency 'pyarrow'. pyarrow is required for parquet support. Use pip or conda to install pyarrow.
- Missing optional dependency 'fastparquet'. fastparquet is required for parquet support. Use pip or conda to install fastparquet.

In [2]: import pandas as pd
...: pd.read_parquet("new_share.parquet").head()
...:

ImportError                                     Traceback (most recent call last)
cell In[2], line 2
  1 import pandas as pd
----> 2 pd.read_parquet("new_share.parquet").head()

File ~/anaconda3\envs\week07\Lib\site-packages\pandas\io\parquet.py:651, in read_parquet(path, engine, columns, storage_options, use_nullable_dtypes, dtype_backend, filesystem, filters, **kwargs)
498 @doc(storage_options=_shared_docs["storage_options"])
499 def read_parquet(
500     path: FilePath | ReadBuffer[bytes],
501     ...,
502     ...,
503     ) -> DataFrame:
504     """
505     Load a parquet object from the file path, returning a DataFrame.
506     ...
507     648     1    4    9
508     """
509     impl = get_engine(engine)
510     if use_nullable_dtypes is not lib.no_default:
511         msg = (
512             "The argument 'use_nullable_dtypes' is deprecated and will be removed "
513             "in a future version."
514         )
515
516     File ~/anaconda3\envs\week07\Lib\site-packages\pandas\io\parquet.py:67, in get_engine(engine)
517     64     except ImportError as err:
518         error_msgs += "\n - " + str(err)
--> 59     raise ImportError(
60         "Unable to find a usable engine; "
61         "tried using: 'pyarrow', 'fastparquet'.\n"
62         "A suitable version of "
63         "pyarrow or fastparquet is required for parquet "
64         "support.\n"
65         "Trying to import the above resulted in these errors:"
66         f"\n{error_msgs}"
67     )
68 if engine == "pyarrow":
69     return PyArrowImpl()

ImportError: Unable to find a usable engine; tried using: 'pyarrow', 'fastparquet'.
A suitable version of pyarrow or fastparquet is required for parquet support.
Trying to import the above resulted in these errors:
- Missing optional dependency 'pyarrow'. pyarrow is required for parquet support. Use pip or conda to install pyarrow.
- Missing optional dependency 'fastparquet'. fastparquet is required for parquet support. Use pip or conda to install fastparquet.

In [3]:
```

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```
File ~/anaconda3\envs\week07\Lib\site-packages\pandas\io\parquet.py:651, in read_parquet(path, engine, columns, storage_options, use_nullable_dtypes, dtype_backend, filesystem, filters, **kwargs)
    498 @doc(storage_options=_shared_docs["storage_options"])
    499 def read_parquet(
    500     path: FilePath | ReadBuffer[bytes],
(...): 508     **kwargs,
 509 ) -> DataFrame:
    510     """
    511     Load a parquet object from the file path, returning a DataFrame.
    512
(...): 513     648     1   4   9
 649     """
    514     impl = get_engine(engine)
    515     if use_nullable_dtypes is not lib.no_default:
    516         msg = (
    517             "The argument 'use_nullable_dtypes' is deprecated and will be removed "
    518             "in a future version."
    519         )
    520
File ~/anaconda3\envs\week07\Lib\site-packages\pandas\io\parquet.py:67, in get_engine(engine)
    64     except ImportError as err:
    65         error_msgs += "\n - " + str(err)
--> 67     raise ImportError(
    68         "Unable to find a usable engine; "
    69         "tried using: 'pyarrow', 'fastparquet'.\n"
    70         "A suitable version of "
    71         "'pyarrow' or 'fastparquet' is required for parquet "
    72         "support.\n"
    73         "Trying to import the above resulted in these errors:"
    74         f"\n{error_msgs}"
    75     )
    76 if engine == "pyarrow":
    77     return PyArrowImpl()
    78
ImportError: Unable to find a usable engine; tried using: 'pyarrow', 'fastparquet'.
A suitable version of pyarrow or fastparquet is required for parquet support.
Trying to import the above resulted in these errors:
- Missing optional dependency 'pyarrow'. pyarrow is required for parquet support. Use pip or conda to install pyarrow.
- Missing optional dependency 'fastparquet'. fastparquet is required for parquet support. Use pip or conda to install fastparquet.

In [3]: pip install pyarrow
...
Collecting pyarrow
  Downloading pyarrow-20.0.0-cp312-cp312-win_amd64.whl.metadata (3.4 kB)
  Downloading pyarrow-20.0.0-cp312-cp312-win_amd64.whl (25.7 MB)
    25.7/25.7 MB 4.0 MB/s eta 0:00:00
Installing collected packages: pyarrow
Successfully installed pyarrow-20.0.0
Note: you may need to restart the kernel to use updated packages.

In [4]: import tushare as ts
...: pro = ts.pro_api()
...: df = pro.new_share()
...: df.to_parquet("new_share.parquet") # 保存数据
...:

In [5]: # 验证读取
...: import pandas as pd
...: print(pd.read_parquet("new_share.parquet").head())
...:
...:
  ts_code sub_code name ipo_date issue_date ... price pe limit_amount funds ballot
0 603014.SH 732014 威高血净 20250508 None ... 0.00 0.00 1.10 0.000 0.00
1 301595.SZ 301595 太力科技 20250508 None ... 0.00 0.00 0.65 0.000 0.00
2 688755.SH 787755 汉邦科技 20250507 None ... 0.00 0.00 0.50 0.000 0.00
3 301636.SZ 301636 泽润新能 20250428 None ... 33.06 17.57 0.45 5.279 0.02
4 920068.BJ 920068 天工股份 20250428 None ... 3.94 14.98 255.00 2.364 0.00

[5 rows x 12 columns]

In [6]: |
```

```
MINGW64:/c/Users/liu/week07
liu@liujin MINGW64 ~ (master)
$ cd /c/Users/liu/week07

liu@liujin MINGW64 ~/week07 (main)
$ conda activate week07
(week07)
liu@liujin MINGW64 ~/week07 (main)
$ pip install polars perspective-python
Requirement already satisfied: polars in c:\users\liu\anaconda3\envs\week07\lib\site-packages (1.28.1)
Requirement already satisfied: perspective-python in c:\users\liu\anaconda3\envs\week07\lib\site-packages (3.6.0)
(week07)
liu@liujin MINGW64 ~/week07 (main)
$ jupyter lab
[2025-05-12 07:53:17.276 ServerApp] jupyter_lsp | extension was successfully linked.
[2025-05-12 07:53:17.281 ServerApp] jupyter_server_terminals | extension was successfully linked.
```

The screenshot shows a Jupyter Notebook environment with the following details:

- File Menu:** File, Edit, View, Run, Kernel, Tabs, Settings, Help.
- Left Sidebar:** Shows a file tree with the following files:
 - Y: environment.yml
 - LICENSE
 - new_share.parqu...
 - README.md
 - trial-jupyterlab.ipynb (selected)
 - trial-perspective....
 - Untitled.ipynb
 - untitled.txt
- Code Cell [1]:** Contains Python code using Polars and PerspectiveWidget to read a Parquet file and display it in an interactive DataGrid.

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

# 读取 Parquet 文件
df = pl.read_parquet("new_share.parquet")

# 展示交互式表格
PerspectiveWidget(df)
```
- DataGrid View:** A visual representation of the DataFrame data. It includes a header row with columns "ts_code" and "sub_code". Below the header, there are 20 rows of data. To the right of the DataGrid, there are several configuration panels:
 - Group By
 - Split By
 - Order By
 - Where
 - Columns panel listing columns: ts_code, sub_code, name, ipo_date, issue_date, # amount, market_amount, # price. Each column has a dropdown arrow and a checkbox.
- Bottom Status Bar:** Shows the kernel status (Python 3 (ipykernel) | Idle), mode (Command), line number (Ln 1, Col 1), and the current notebook (trial-jupyterlab.ipynb). It also indicates there is 1 update available.

The screenshot shows a Jupyter Notebook interface with the following details:

- File Bar:** File, Edit, View, Run, Kernel, Tabs, Settings, Help.
- File Explorer:** Shows files in the current directory:
 - Y: environment.yml (11d ago)
 - LICENSE (13d ago)
 - new_share.parqu... (11d ago)
 - README.md (13d ago)
 - trial-jupyterlab.ipynb (now)
 - trial-perspective.... (5m ago)
 - Untitled.ipynb (now)
 - untitled.txt (2m ago)
- Code Editor:** The notebook tab "trial-jupyterlab.ipynb" is active. A code cell [9] contains the following Python code using the polars library:

```
import polars as pl
from polars import col, Date

# 1. 重新读取 Parquet 文件
d1 = pl.read_parquet("new_share.parquet")

# 2. 一次性把两列由 "YYYYMMDD" 字符串转换成 Date
d1 = d1.with_columns([
    col("ipo_date").str.strptime(Date, "%Y%m%d").alias('ipo_date'),
    col("issue_date").str.strptime(Date, "%Y%m%d").alias('issue_date')
])

# 3. 查看 schema. 确认类型
d1.schema
```

- Output:** The output cell [9] displays the schema of the DataFrame:

```
Schema([(('ts_code', String),
          ('sub_code', String),
          ('name', String),
          ('ipo_date', Date),
          ('issue_date', Date),
          ('amount', Float64),
          ('market_amount', Float64),
          ('price', Float64),
          ('pe', Float64),
          ('limit_amount', Float64),
          ('funds', Float64),
          ('ballot', Float64)])]
```

- Bottom Status Bar:** Simple, 0, 2, Python 3 (ipykernel) | Idle, Mode: Command, Ln 1, Col 1, trial-jupyterlab.ipynb, 1, a notification icon.

The screenshot shows a Jupyter Notebook interface with the following details:

- File Bar:** File, Edit, View, Run, Kernel, Tabs, Settings, Help.
- File Explorer:** Shows files in the current directory: environment.yml, LICENSE, new_share.parquet, README.md, trial-jupyterlab.ipynb (selected), trial-perspective.ipynb, Untitled.ipynb, and untitled.txt.
- Code Cell:** [10]:

```
from perspective.widget import PerspectiveWidget
PerspectiveWidget(d1)
```
- Data Panel:** A Datagrid panel titled "untitled". It displays a table of data with columns: ts_code, sub_code, name, ipo_date, issue_date, # amount, # market_amount, and # price. The data rows are:

ts_code	sub_code	name	ipo_date	issue_date	# amount	# market_amount	# price
603014.SH	732014						
301595.SZ	301595						
688755.SH	787755						
301636.SZ	301636						
920068.BJ	920068						
001400.SZ	001400						
301560.SZ	301560						
603202.SH	732202						
301662.SZ	301662						
603120.SH	732120						
001335.SZ	001335						
301665.SZ	301665						
603210.SH	732210						
603257.SH	732257						
301658.SZ	301658						
920029.BJ	920029						
301616.SZ	301616						
- Panel Options:** Group By, Split By, Order By, Where.
- Bottom Status Bar:** Simple, 0, 2, Python 3 (ipykernel) | Idle, Mode: Command, Ln 1, Col 1, trial-jupyterlab.ipynb, 1, 1 notification icon.

File Edit View Run Kernel Tabs Settings Help

Untitled.ipynb trial-jupyterlab.ipynb

```
[28]: # 先读取一个默认的 config
config = {
    "group_by": [],
    "split_by": [],
    "filter": [],
    "sort": [],
    "aggregates": {},
    "columns": list(d1.columns),
    "expressions": {},
    "plugin": "datagrid",
    "plugin_config": {},
    "settings": True
}

# 单列: 按 ipo_date 分组
config["group_by"] = ["ipo_date"]

# 然后按 ts_code 拆分
config["split_by"] = ["ts_code"]

# 平均: 只看发行价 price > 20
config["filter"] = [{"price": ">", "v": "20"}]

# 统计: 只显示这几列
config["columns"] = ["ts_code", "name", "ipo_date", "price"]

# 平均: 添加一个计算列 max_shares * limit_amount / price
config["expressions"] = {
    "max_shares": {
        "column": "limit_amount",
        "expression": "limit_amount / price"
    }
}

# 然后直接用这个 config 预览
from perspective.widget import PerspectiveWidget
PerspectiveWidget(d1, **config)
```

ts_code	sub_code	name	ipo_date	issue_date	amount	market_amount	price	pe	limit_amount	funds	ballot
603014.SH	732014	威高集团	20250508		4,114.00	0.00	0.00	0.00	1.10	0.00	0.00

Mode: Command | Ln 1, Col 1 trial-jupyterlab.ipynb

File Edit View Run Kernel Tabs Settings Help

Untitled.ipynb trial-jupyterlab.ipynb

```
[28]: expression: "limit_amount / price"
}

# 然后直接用这个 config 预览
from perspective.widget import PerspectiveWidget
PerspectiveWidget(d1, **config)
```

ts_code	sub_code	name	ipo_date	issue_date	amount	market_amount	price	pe	limit_amount	funds	ballot
603014.SH	732014	威高集团	20250508		4,114.00	0.00	0.00	0.00	1.10	0.00	0.00
301595.SZ	301595	万力科技	20250508		2,787.00	0.00	0.00	0.00	0.65	0.00	0.00
688755.SH	787755	汉邦科技	20250507		2,200.00	0.00	0.00	0.00	0.50	0.00	0.00
301636.SZ	301636	津润制药	20250428		1,597.00	774.00	33.06	17.57	0.45	5.28	0.02
920068.BJ	920068	天工智能	20250428		6,000.00	4,200.00	3.94	14.08	255.00	2.36	0.00
001400.SZ	001400	江麓科仪	20250415	20250424	1,500.00	1,500.00	37.36	15.32	1.50	5.60	0.01
301569.SZ	301569	必捷汽配	20250415	20250425	3,040.00	1,216.00	16.50	21.30	0.70	5.02	0.02
603202.SH	732202	东行方	20250414	20250424	4,880.00	2,611.00	91.50	15.50	1.25	37.40	0.03
301622.SZ	301622	本土工科	20250408	20250417	2,000.00	813.00	26.68	7.05	0.45	5.32	0.02
603120.SH	732120	中科微能	20250407	20250416	2,260.00	3,886.00	15.00	16.76	0.90	3.39	0.03
001335.SZ	001335	凯利科技	20250331	20250415	2,343.00	3,875.00	12.88	11.44	0.90	3.00	0.02
301665.SZ	301665	泰禾医疗	20250331	20250411	4,500.00	3,485.00	10.27	13.40	0.70	4.62	0.02
603210.SH	732210	中国鸿基	20250328	20250409	8,510.00	5,719.00	8.08	18.00	2.70	7.32	0.04
603257.SH	732257	中国瑞林	20250320	20250408	3,000.00	3,992.00	20.52	18.17	0.95	6.16	0.03
301658.SZ	301658	首航新能	20250324	20250402	4,124.00	3,617.00	11.88	15.88	0.75	4.87	0.02
920093.BJ	920093	开发科技	20250318	20250328	3,849.00	2,677.00	30.38	8.46	158.00	11.69	0.12
301616.SZ	301616	浙江华业	20250317	20250327	2,000.00	2,000.00	20.87	25.22	2.00	4.17	0.01
688757.SH	787757	惠科纳米	20250314	20250325	4,033.00	3,016.00	9.08	42.64	0.65	3.66	0.03
301355.SZ	301355	浙江华业	20250314	20250327	6,379.00	2,408.00	4.92	25.91	1.20	3.14	0.02
301829.SZ	301829	矽电股份	20250311	20250324	1,043.00	1,043.00	52.28	26.23	1.00	5.45	0.01

Mode: Command | Ln 38, Col 1 trial-jupyterlab.ipynb

File Edit View Run Kernel Tabs Settings Help

Untitled.ipynb trial-jupyterlab.ipynb Python 3 (ipykernel)

```
[22]: from perspective.widget import PerspectiveWidget
PerspectiveWidget(
    df,
    plugin="Tremap",
    plugin_config={
        # 分类维度
        "row_pivots": ["name"],
        # 彩色“大小”的数据列
        "columns": ["limit_amount"],
        # 彩色“颜色”的数据列
        "color": ["price"]
    }
)
) [22]: o untitled 2,000 × 12
```

Treemap

1/121

Group By

- ts_code
- sub_code
- name
- ipo_date
- issue_date
- # amount
- # market_amount
- price

Split By

Order By

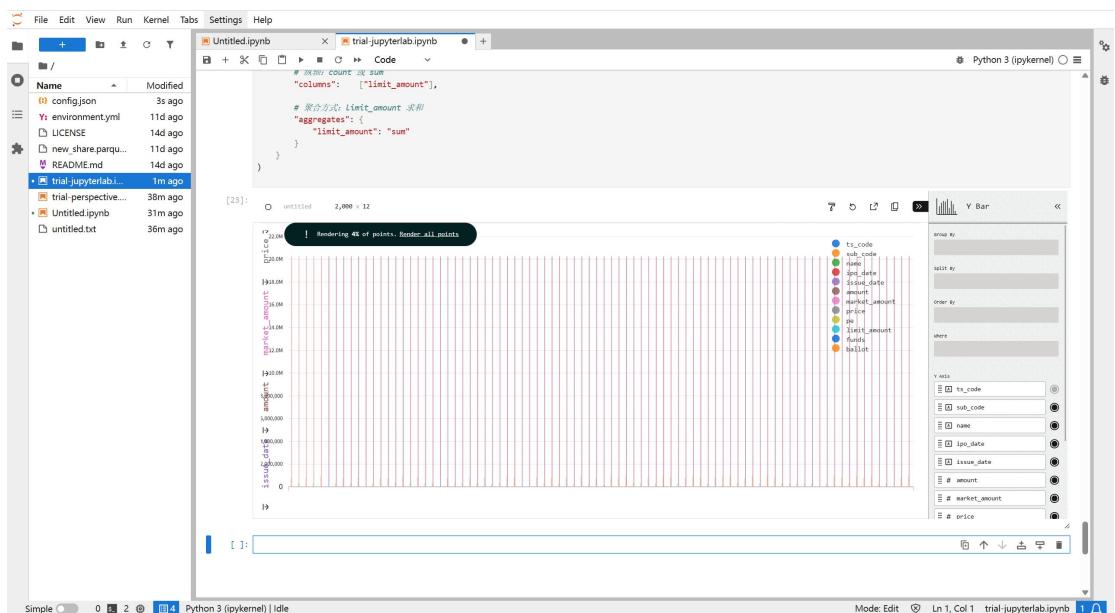
Where

Size

ts_code

Color

Mode: Command Ln 23, Col 1 trial-jupyterlab.ipynb



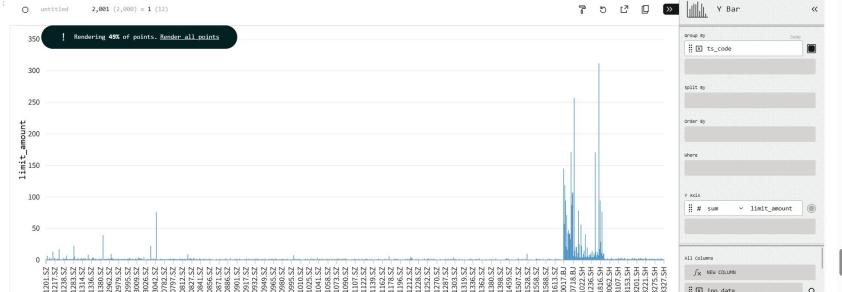
File Edit View Run Kernel Tabs Settings Help

Untitled.ipynb trial-jupyterlab.ipynb Python 3 (ipykernel)

```
[26]: self._model_id = kwargs.pop('model_id', None)
--> 503 super().__init__(**kwargs)
505 widget._call_widget_constructed(self)
506 self.open()

TypeError: PerspectiveViewer.__init__() got an unexpected keyword argument 'color'
```

```
[26]: PerspectiveWidget(
    d1,
    plugin="Y Bar",
    group_by = ["ts_code"], # 按股分组
    columns = ["limit_amount"],
    aggregates = {
        "limit_amount": "sum"
    }
)
```

[26]: 

limit_amount

ts_code

Mode Command

Ln 1, Col 1 trial-jupyterlab.ipynb

