把 Jupyter Notebook 配置成 Coding 神器

- ## 修改字體+配置 Sublime Text 快速鍵

1. **安裝 jupyterthemes**

   >> pip install jupyterthemes


   ```
   D:\Anaconda3\Scripts>cmd
   Microsoft Windows [版本 10.0.18363.476]
   (c) 2019 Microsoft Corporation. 著作權所有，並保留一切權利。

   D:\Anaconda3\Scripts>pip install jupyterthemes
   ```

2. **配置默認主題**

   >> jt - r


   ```
   C:\Users\jennychiou\Anaconda3\Scripts>jt -r
   Reset css and font defaults in:
   C:\Users\jennychiou\. jupyter\custom &
   C:\Users\jennychiou\AppData\Roaming\jupyter\nbextensions

   C:\Users\jennychiou\Anaconda3\Scripts>
   ```

3. **出現 custom 資料夾**

   可以發現這個目錄已經被創建：C:\Users\jennychiou\.jupyter\custom

   目錄自動載入兩個檔 custom.css 和 custom.js

   也可直接下載壓縮檔 custom.zip

4. **修改字體**

   在 custom.css 中寫入如下內容：

- ## 修改字體+配置 Sublime Text 快速鍵

```
custom.js          custom.css  ✕

C: > Users > jennychiou > .jupyter > custom > 𝄢 custom.css > ⌁ .introspection
    1    /*This file contains any manual css for this page that needs to override the global styles.
    2    This is only required when different pages style the same element differently. This is just
    3    a hack to deal with our current css styles and no new styling should be added in this file.*/
    4
    5    #ipython-main-app {
    6        position: relative;
    7    }
    8    #jupyter-main-app {
    9        position: relative;
   10    }
   11    .introspection, .input_prompt,.output_prompt, .output pre, .CodeMirror pre {
   12        font-family: "SFMono-Regular", Consolas, "Liberation Mono", Menlo, Courier, monospace;
   13        font-size: 15px;
   14        line-height: 22px;
   15    }
```

5.   Sublime Text 快速鍵

在 custom.js 中寫入以下內容：(參考資料)

```
custom.js   ✕

C: > Users > jennychiou > .jupyter > custom > JS custom.js > ...
    1    require(["codemirror/keymap/sublime", "notebook/js/cell", "base/js/namespace"],
    2        function(sublime_keymap, cell, IPython) {
    3            cell.Cell.options_default.cm_config.keyMap = 'sublime';
    4            var cells = IPython.notebook.get_cells();
    5            for(var cl=0; cl< cells.length ; cl++){
    6                cells[cl].code_mirror.setOption('keyMap', 'sublime');
    7            }
    8        }
    9    );
```

•   安裝 Jupyter 拓展外掛程式

1.   安裝

在 cmd 輸入以下指令：

>> pip install jupyter_contrib_nbextensions

anaconda_local.bat - 捷徑 - pip install jupyter_contrib_nbextensions

```
C:\Users\jennychiou\Anaconda3\Scripts>cmd
Microsoft Windows [版本 10.0.18362.476]
(c) 2019 Microsoft Corporation. 著作權所有，並保留一切權利。

C:\Users\jennychiou\Anaconda3\Scripts>pip install jupyter_contrib_nbextensions
Collecting jupyter_contrib_nbextensions
  Downloading https://files.pythonhosted.org/packages/33/f0/6e2c00afda860f655fb
/jupyter_contrib_nbextensions-0.5.1-py2.py3-none-any.whl (20.9MB)
    |███████                         | 2.1MB 21kB/s eta 0:14:55_
```

>> jupyter contrib nbextension install –user

```
C:\Users\jennychiou\Anaconda3\Scripts>jupyter contrib nbextension install --user
[I 13:34:41 InstallContribNbextensionsApp] jupyter contrib nbextension install --user
[I 13:34:41 InstallContribNbextensionsApp] Installing jupyter_contrib_nbextensions nb
ectory:
[I 13:34:41 InstallContribNbextensionsApp] Installing c:\users\jennychiou\anaconda3\l
extensions\nbextensions\addbefore -> addbefore
[I 13:34:41 InstallContribNbextensionsApp] Making directory: C:\Users\jennychiou\AppD
dbefore\
[I 13:34:41 InstallContribNbextensionsApp] Copying: c:\users\jennychiou\anaconda3\lib
tensions\nbextensions\addbefore\addbefore.yaml -> C:\Users\jennychiou\AppData\Roaming
before.yaml
```

安裝成功畫面：

```
        jupyter_nbextensions_configurator 0.4.1 ok
Enabling notebook nbextension nbextensions_configurator/config_menu/main...
Enabling tree nbextension nbextensions_configurator/tree_tab/main...
[I 13:34:42 InstallContribNbextensionsApp] Enabling notebook extension contrib_nbextensions_help_item/main...
[I 13:34:42 InstallContribNbextensionsApp]     - Validating: ok
[I 13:34:42 InstallContribNbextensionsApp] - Editing config: C:\Users\jennychiou\.jupyter\jupyter_nbconvert_config.json
[I 13:34:42 InstallContribNbextensionsApp] --  Configuring nbconvert template path
[I 13:34:42 InstallContribNbextensionsApp] --  Configuring nbconvert preprocessors
[I 13:34:42 InstallContribNbextensionsApp] - Writing config: C:\Users\jennychiou\.jupyter\jupyter_nbconvert_config.json
[I 13:34:42 InstallContribNbextensionsApp] --  Writing updated config file C:\Users\jennychiou\.jupyter\jupyter_nbconver
t_config.json
```

>> pip install jupyter_nbextensions_configurator

```
C:\Users\jennychiou\Anaconda3\Scripts>pip install jupyter_nbextensions_configurator
Requirement already satisfied: jupyter_nbextensions_configurator in c:\users\jennycl
.1)
Requirement already satisfied: tornado in c:\users\jennychiou\anaconda3\lib\site-pac
figurator) (6.0.3)
Requirement already satisfied: pyyaml in c:\users\jennychiou\anaconda3\lib\site-pacl
igurator) (5.1.2)
Requirement already satisfied: traitlets in c:\users\jennychiou\anaconda3\lib\site-p
onfigurator) (4.3.2)
```

>> jupyter nbextensions_configurator enable –user

```
C:\Users\jennychiou\Anaconda3\Scripts>jupyter nbextensions_configurator enable -use
```

2. **重啟 jupyter server**

出現外掛程式管理的 Tab

取消勾選

Files	Running	Clusters	Nbextensions

Configurable nbextensions

☑ disable configuration for nbextensions without explicit compatibility (they may break your notebook environment, but can be useful to show for nbextension development)

filter: by description, section, or tags

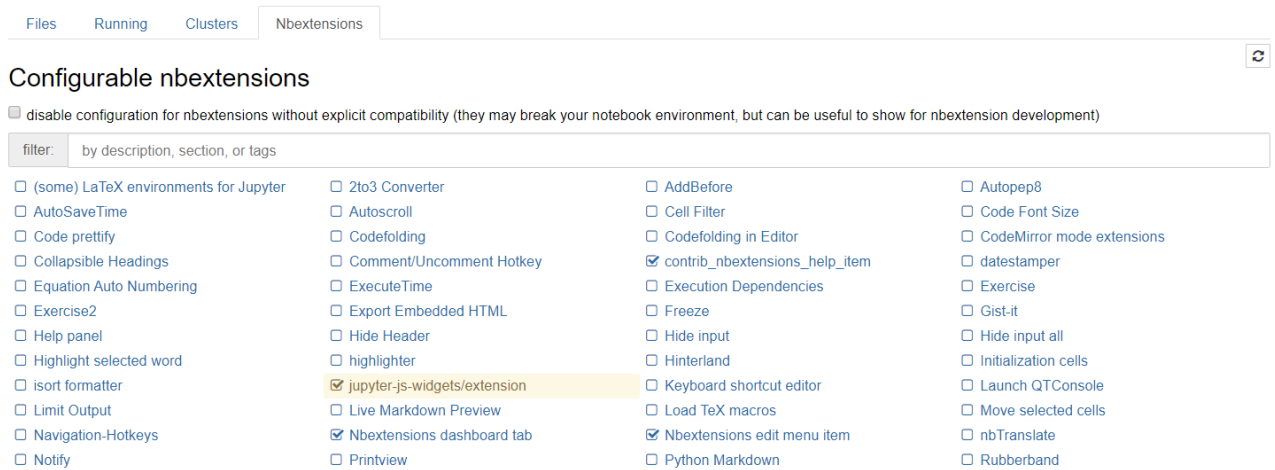|			
⊘ (some) LaTeX environments for Jupyter	⊘ 2to3 Converter	⊘ AddBefore	⊘ Autopep8
⊘ AutoSaveTime	⊘ Autoscroll	⊘ Cell Filter	⊘ Code Font Size
⊘ Code prettify	⊘ Codefolding	⊘ Codefolding in Editor	⊘ CodeMirror mode extensions
⊘ Collapsible Headings	⊘ Comment/Uncomment Hotkey	❶ contrib_nbextensions_help_item	⊘ datestamper
⊘ Equation Auto Numbering	⊘ ExecuteTime	⊘ Execution Dependencies	⊘ Exercise
⊘ Exercise2	⊘ Export Embedded HTML	⊘ Freeze	⊘ Gist-it
⊘ Help panel	⊘ Hide Header	⊘ Hide input	⊘ Hide input all
⊘ Highlight selected word	⊘ highlighter	⊘ Hinterland	⊘ Initialization cells
⊘ isort formatter	❶ jupyter-js-widgets/extension	⊘ Keyboard shortcut editor	⊘ Launch QTConsole
⊘ Limit Output	⊘ Live Markdown Preview	⊘ Load TeX macros	⊘ Move selected cells
⊘ Navigation-Hotkeys	❶ Nbextensions dashboard tab	❶ Nbextensions edit menu item	⊘ nbTranslate
⊘ Notify	⊘ Printview	⊘ Python Markdown	⊘ Rubberband

Files   Running   Clusters   **Nbextensions**

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3. 新增套件

– 代碼折疊、標題折疊

Codefolding、Collapsible Headings ….

– 自動整理代碼

>> pip install yapf

首先安裝 yapf，然後把 Code prettify 打開即可，點擊標題可以自己設置快速鍵。

☐ Autopep8
☑ **Code prettify**
☑ Collapsible Headings
☐ Equation Auto Numbering
☐ Export Embedded HTML
☐ Hide Header
☐ highlighter

4. icon 修改

在配置中修改 icon 的样式就可以修改对应的图标了，比如把锤子变成对号，把 legal 改成 check 就可以：fa-legal -> fa-check