

计算机科学与编程入门大作业

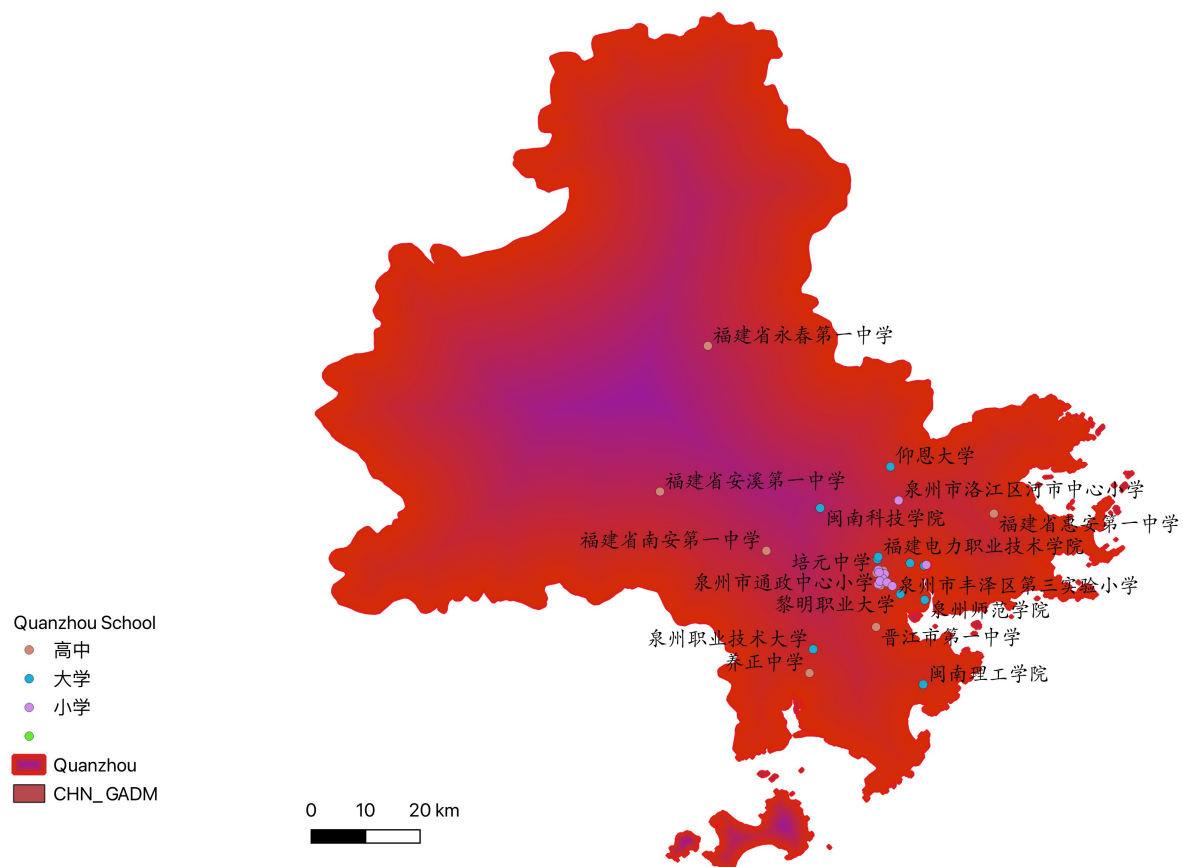
林立业

2024/6/3



大作业的思路

1. 找数据 – 学校名单
2. 找经纬度 - <https://api.map.baidu.com/lbsapi/getpoint/index.html>
3. 通过QGIS画图



ISLANDS
離島區

GOVERNMENT SECONDARY SCHOOLS
官立中學

Education Bureau
School List by District

Date: 31/05/2024
Page: 1

No.	Name & Address of School 學校名稱及地址	Tel. 電話 Fax 傳真	Chairman of SMC 學校管理委員會主席 Head of School 校長	AM PM WD 上午 下午 全日
1	CHEUNG CHAU GOVERNMENT SECONDARY SCHOOL 5B SCHOOL ROAD CHEUNG CHAU NEW TERRITORIES 長洲官立中學 新界長洲學校路 5 B School No./Location ID: 510025 / 0001 Website 網址 : http://www.ccgsa.edu.hk	Tel. 電話: 29810514 Fax 傳真: 29816349	Chairman of SMC 學校管理委員會主席: MS HO SUK WA 何淑華女士 Head of School 校長: MS LAU MAN SZE 劉敏詩女士	* CO-ED 男女

The information on the list is for reference only and does not necessarily represent the most updated information. If further details are required, please contact the schools direct.

ISLANDS
離島區

AIDED SECONDARY SCHOOLS
資助中學

Education Bureau
School List by District

Date: 31/05/2024
Page: 2

No.	Name & Address of School 學校名稱及地址	Tel. 電話 Fax 傳真	Supervisor 校監 Head of School 校長	AM PM WD 上午 下午 全日
1	CARITAS CHAN CHUN HA FIELD STUDIES CTR CC LOT NO 1139 LUNG TSAI TSUEN CHEUNG CHAU NEW TERRITORIES 明愛陳震夏郊野學園 新界長洲長洲地段 1 3 9 號離仔村 (不包括非學校部份) School No./Location ID: 519162 / 0001 Website 網址 : http://www.caritasafsc.edu.hk	Tel. 電話: 29811899 Fax 傳真: 29813767	Supervisor 校監: MR YEUNG KAM CHUEN ANTHONY 楊錦泉先生 Head of School 校長: MR CHUNG CHI YUEN 鍾智遠先生	* CO-ED 男女
2	CARITAS CHAN CHUN HA FIELD STUDIES CTR CHI MA HANG ROAD, CHI MA HANG CHEUNG CHAU NEW TERRITORIES 明愛陳震夏郊野學園 新界長洲芝麻坑芝麻坑路 School No./Location ID: 519162 / 0002 Website 網址 : http://www.caritasafsc.edu.hk/	Tel. 電話: 29811899 Fax 傳真: 29813767	Supervisor 校監: MR YEUNG KAM CHUEN ANTHONY 楊錦泉先生 Head of School 校長: MR CHUNG CHI YUEN 鍾智遠先生	* CO-ED 男女
3	HKFEW WONG CHO BAU SECONDARY SCHOOL FU TUNG ESTATE, TUNG CHUNG LANTAU ISLAND NEW TERRITORIES 香港教育工作者聯會黃楚標中學 新界大嶼山東涌富東邨 School No./Location ID: 552917 / 0001	Tel. 電話: 21094005 Fax 傳真: 21094006	Supervisor 校監: MR WONG KWAN YU 黃均瑞先生 Head of School 校長: MR HUI CHUN LUNG 許振隆先生	* CO-ED 男女

edub.gov.hk/en/student-parents/sch-info/sch-search/schlist-by-district/school-list-i.html

[Tutorial] JOPtion... Gmail YouTube Maps Translate

Elements Console Sources Network Performance Memory Application >> 1 ⚙️ ⋮ ×

<html>
> <head> ... </head>
> <body bgcolor="#FFFFFF">
 <table class="tableStyleA">
 <tbody>
 <tr> ... </tr>
 <tr> ... </tr>
 <tr> ... </tr>
 <td colspan="3">
 <table border="1" bordercolor="#000099"
 cellpadding="3" cellspacing="0" width="100%">
 <tbody>
 <tr> ... </tr>
 <tr> ... </tr>
 <td align="center" class="bodytxt" rowspan="2"> ... </td>
 <td class="bodytxt" valign="top">
 <table border="0" width="100%" cellpadding="2">
 <tbody>
 <tr> ... </tr>
 <tr> ... </tr>
 <tr> ... </tr>
 </tbody>
 </td colspan="2">長洲官立中學</td> == \$0
 </tr>
 <tr> ... </tr>
 <tr> ... </tr>
 </tbody>
 </table>
 <td align="left" class="bodytxt" valign="top"> ... </td>
 <td align="left" class="bodytxt" valign="top"> ... </td>
 <td align="center" class="bodytxt" valign="top"> ... </td>
 </tr>
 </tbody>
 </table>

table tbody tr td.bodytxt table tbody tr td.bodytxt

Console What's new X Issues

Highlights from the Chrome 125 update

Error causes in the Console

The Console now shows you chains of error causes in the stack trace.

CSS selector statistics in Performance

The Performance panel can now show you CSS selector statistics for

Styles Computed Layout Event Listeners >>

Filter :hov .cls + ⌵ ⌶

element.style {
}
.bodytxt {
 font-family: Lucida Console, "Courier", "Courier New",
 font-size: 8pt;
 line-height: 8pt;
 color: #000000;
}
td {
 user agent stylesheet
 display: table-cell;
 vertical-align: inherit;
 unicode-bidi: isolate;
}
Inherited from table
table {
 user agent stylesheet
 border-collapse: separate;
 text-indent: initial;
 line-height: normal;
 font-weight: normal;
 font-size: medium;
 font-style: normal;
 color: internal-quirk-inherit;
 text-align: start;
 border-spacing: 2px;
 white-space: normal;
 font-variant: normal;
}
Inherited from table
table {
 user agent stylesheet
 border-collapse: separate;
 text-indent: initial;
 line-height: normal;
 font-weight: normal;
 font-size: medium;
 font-style: normal;

Education Bureau		Date: 31/05/2024	
School List by District		Page: 1	
ISLANDS		GOVERNMENT SECONDARY SCHOOLS	
離島區		官立中學	
No.	Name & Address of School 學校名稱及地址	Tel. 電話 Fax 傳真	Chairman of SMC 學校管理委員會主席 Head of School 校長
AM	PM	WD	
上午	下午	全日	
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Website 網址 : http://www.ccgsa.edu.hk			*

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Education Bureau School List by District				Date: 31/05/2024 Page: 2	
ISLANDS 離島區				AIDED SECONDARY SCHOOLS 資助中學	
No.	Name & Address of School 學校名稱及地址	Tel. 電話 Fax 傳真	Supervisor 校監 Head of School 校長	AM 上午 PM 下午 WD 全日	
1	CARITAS CHAN CHUN HA FIELD STUDIES CTR	Tel. 電話 29811899	Supervisor 校監: MR YEUNG KAM CHUEN ANTHONY 楊錦泉先生		
	CC LOT NO 1139 LONG TSAI TSUEN CHEUNG CHAU NEW TERRITORIES 明愛陳震夏郊野學園	Fax 傳真: 29813767	Head of School 校長: MR CHUNG CHI YUEN 鍾智遠先生		*
	新界長洲長洲地段 1 1 3 9 號離仔村 (不包括 非學校部份)			CO-ED	男女
	School No./Location ID: 519162 / 0001				
	Website 網址: http://www.caritasfsc.edu.hk				*
2	CARITAS CHAN CHUN HA FIELD STUDIES CTR	Tel. 電話 29811899	Supervisor 校監: MR YEUNG KAM CHUEN ANTHONY 楊錦泉先生		
	CHI MA HANG ROAD, CHI MA HANG CHEUNG CHAU NEW TERRITORIES 明愛陳震夏郊野學園	Fax 傳真: 29813767	Head of School 校長: MR CHUNG CHI YUEN 鍾智遠先生		*
	新界長洲芝麻坑芝麻坑路			CO-ED	男女
	School No./Location ID: 519162 / 0002				
	Website 網址: http://www.caritasfsc.edu.hk/				*
3	HKFEW WONG CHO BAU SECONDARY SCHOOL FU TUNG ESTATE, TUNG CHUNG LANTAU ISLAND NEW TERRITORIES	Tel. 電話 21094005	Supervisor 校監: MR. WONG KWAN YU 黃均瑜先生		
	香港教育工作者聯合會黃楚標中學	Fax 傳真: 21094006	Head of School 校長: MR HUI CHUN LUNG 許耀輝先生		*
	新界大嶼山東涌富東邨			CO-ED	男女
	School No./Location ID: 552917 / 0001				

找数据

VARIABLES

- Locals**
 - special variables
 - class variables
 - columns: [|
 - rows: [['', '', ''], ['Enter se...
 - soup: <BeautifulSoup object>
 - table: <table border="0" cellpa...
 - url: 'https://www.ha.org.hk/vis...
- Globals**

WATCH

CALL STACK

- <module> HKhospitaldata.py
 - 0 COLUMNS PASSED, PASSED DA...
 - 0 COLUMNS PASSED, PASSED DA...
 - COULD NOT FIND THE TABLE ON ...
 - Pyth... LIST INDEX OUT OF RANGE

BREAKPOINTS

- ☐ Raised Exceptions
- ☒ Uncaught Exceptions
- ☐ User Uncaught Exceptions

HKSchools.py

```
1 import requests
2 from bs4 import BeautifulSoup
3
4 # Define the URL of the webpage to scrape
5 url = 'https://www.edb.gov.hk/en/student-parents/sch-info/sch-search/schlist-by-district/school-list-i.html'
6
7 # Send an HTTP request to the URL
8 response = requests.get(url)
9
10 # Check if the request was successful
11 if response.status_code == 200:
12     # Parse the HTML content of the webpage
13     soup = BeautifulSoup(response.text, 'html.parser')
14
15     # Find all <tr> elements with the specific <td> child
16     rows = soup.find_all('tr')
17
18     # Initialize a list to store the school names
19     school_names = []
20
21     # Extract the desired information
22     for row in rows:
23         cells = row.find_all('td')
24         for cell in cells:
25             if cell.get('colspan') == '2' and 'bodytxt' in cell.get('class', []):
26                 school_names.append(cell.text.strip())
27
28     # Define the TXT file name
29     txt_file = 'school_names.txt'
30
31     # Write the data to a TXT file with UTF-8 encoding
32     with open(txt_file, mode='w', encoding='utf-8') as file:
33         for name in school_names:
34             file.write(name + '\n')
35
36     print(f'Successfully saved the data to {txt_file}')
37 else:
38     print('Failed to retrieve the webpage')
39
```

PROBLEMS **OUTPUT** **DEBUG CONSOLE** **TERMINAL** **PORTS**

File "/Library/Frameworks/Python.framework/Versions/3.9/lib/python3.9/site-packages/google/auth/_default.py", line 691, in default_credentials_error: Your default credentials were not found. To set up Application Default Credentials, see https://cloud.google.com/docs/authentication/external/set-up-adc for more information.

o AnakinSkywalker:~ lance\$

bash

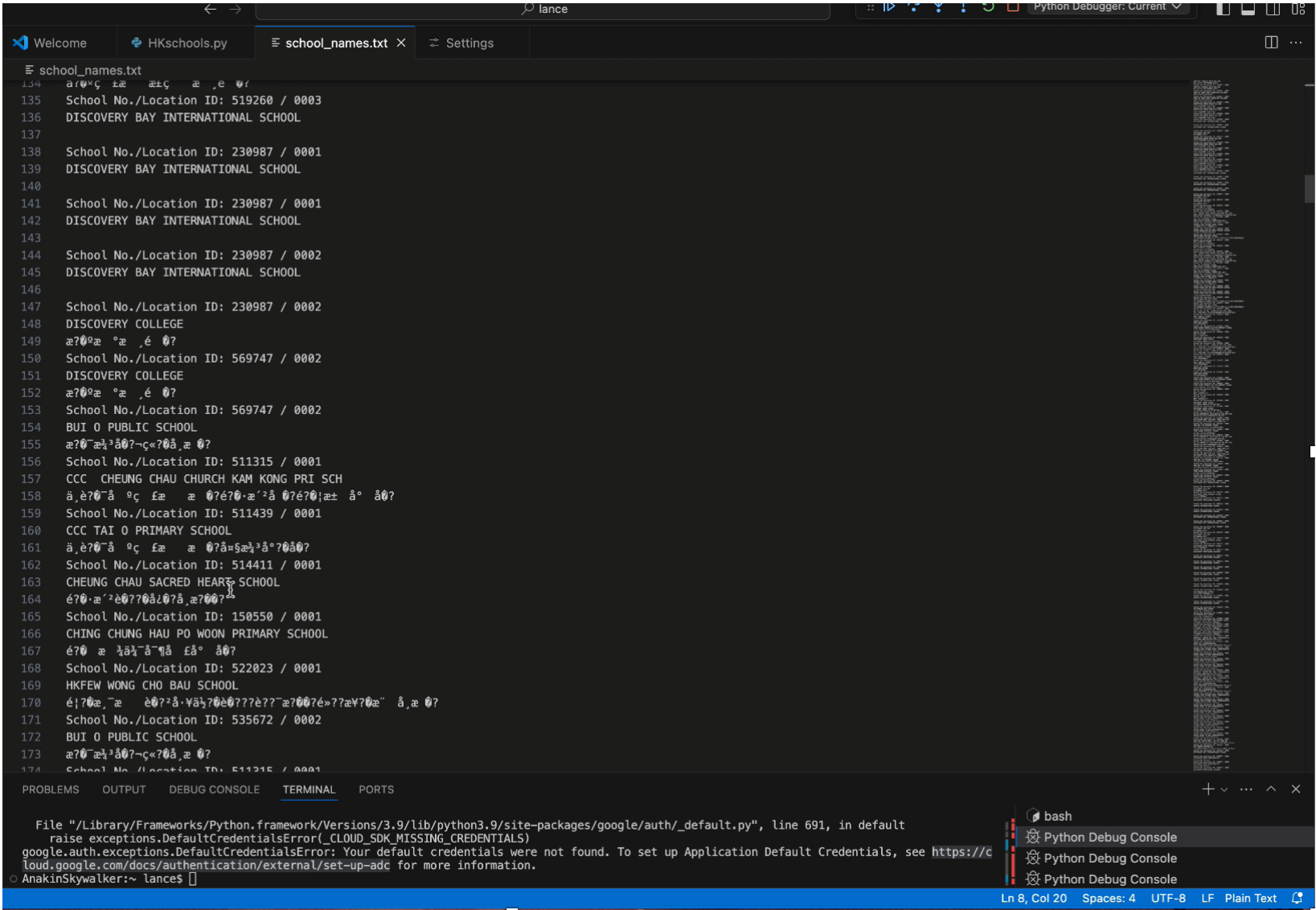
Python Debug Console

Python Debug Console

Python Debug Console

Ln 33, Col 34 Spaces: 4 UTF-8 LF Python 3.9.7 64-bit

找数据



HK schools 2013

Home Insert Draw Page Layout Formulas Data Review View

Paste Paste Wrap Text Merge & Center General Conditional Formatting Format as Table Cell Styles Insert Delete Format Sort & Filter Find & Select

Open recovered workbooks? Your recent changes were saved. Do you want to continue working where you left off?

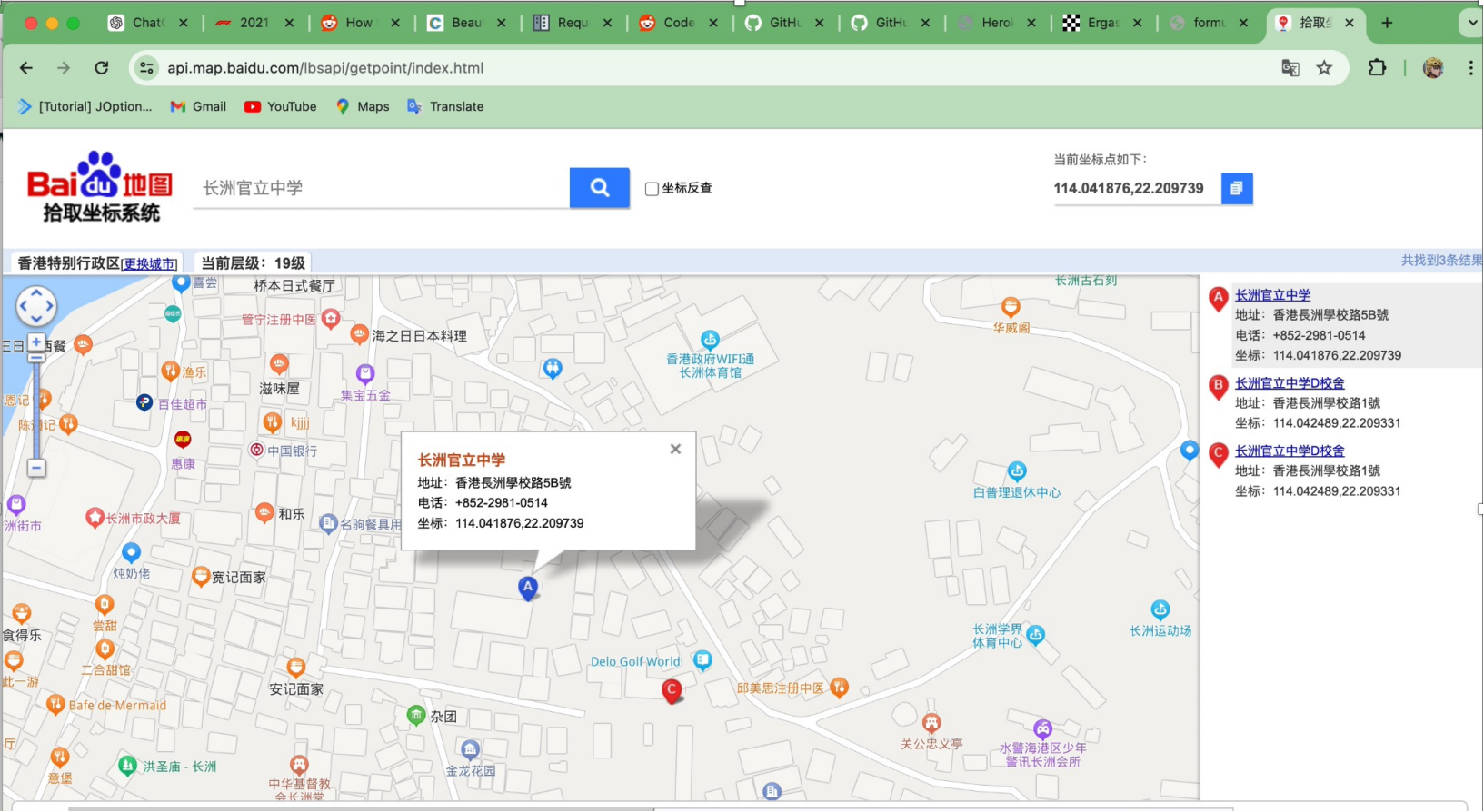
Office Update To keep up-to-date with security updates, fixes, and improvements, choose Check for Updates.

A	B	C	D	E	F	G	H	I	J	K
school_id(2013)	School	Type	District_school	Longitude	Latitude					
1	长洲官立中学	官立中学	离岛区	114.041876	22.209739					
2	佛教慧因法师纪念中学	资助中学	离岛区	114.037519	22.208301					
3	明爱陈震夏郊野学园	资助中学	离岛区	114.049355	22.210421					
4	明爱陈震夏郊野学园	资助中学	离岛区	114.043624	22.208429					
5	香港教育工作者联合会黄楚标中学	资助中学	离岛区	113.948305	22.283693					
6	灵粮堂怡文中学	资助中学	离岛区	113.955972	22.293108					
7	保良局马锦明夫人章毓仙中学	资助中学	离岛区	113.955223	22.290368					
8	东涌天主教学校	资助中学	离岛区	113.946896	22.285363					
9	佛教筏可纪念中学	直接资助计划中学	离岛区	113.877792	22.255276					
10	明爱华德中书院	直接资助计划中学	离岛区	113.943477	22.277999					
11	港青基信书院	直接资助计划中学	离岛区	113.942795	22.278238					
12	基督教正生书院	私立中学	离岛区	114.022682	22.230605					
13	新界大屿山愉景湾	私立中学	离岛区	114.02386	22.304917					
14	智新书院	私立中学	离岛区	114.02548	22.307316					
15	南屯门官立中学	官立中学	屯门区	113.980437	22.376371					
16	屯门官立中学	官立中学	屯门区	113.991175	22.393525					
17	浸信会永隆中学	资助中学	屯门区	113.982735	22.402009					
18	佛教沈香林纪念中学	资助中学	屯门区	113.980073	22.406603					
19	明爱屯门马登基金中学	资助中学	屯门区	113.978149	22.404443					
20	迦密唐宾南纪念中学	资助中学	屯门区	113.9763	22.378781					
21	中华基督教何福堂书院	资助中学	屯门区	113.989421	22.399363					
22	中华基督教谭李丽芬纪念中学	资助中学	屯门区	113.988492	22.406334					
23	青松侯宝垣中学	资助中学	屯门区	113.983816	22.385899					
24	宣道中学	资助中学	屯门区	113.979078	22.406913					
25	香港九龙塘基督教中华宣道会陈瑞芝纪念中	资助中学	屯门区	113.983705	22.390193					
26	厂商会蔡章阁中学	资助中学	屯门区	113.990403	22.393099					
27	钟声慈善社胡陈金枝中学	资助中学	屯门区	113.989851	22.387244					
28	南海正觉莲社佛教梁植伟中学	资助中学	屯门区	113.976331	22.380989					
29	啬色园主办可艺中学	资助中学	屯门区	113.985847	22.392726					
30	裘锦秋中学（屯门）	资助中学	屯门区	113.976975	22.391748					
31	路德会吕祥光中学	资助中学	屯门区	113.989244	22.391502					
32	妙法寺刘金龙中学	资助中学	屯门区	113.995757	22.42367					
33	新生命教育协会平安福音中学	资助中学	屯门区	113.984591	22.386077					

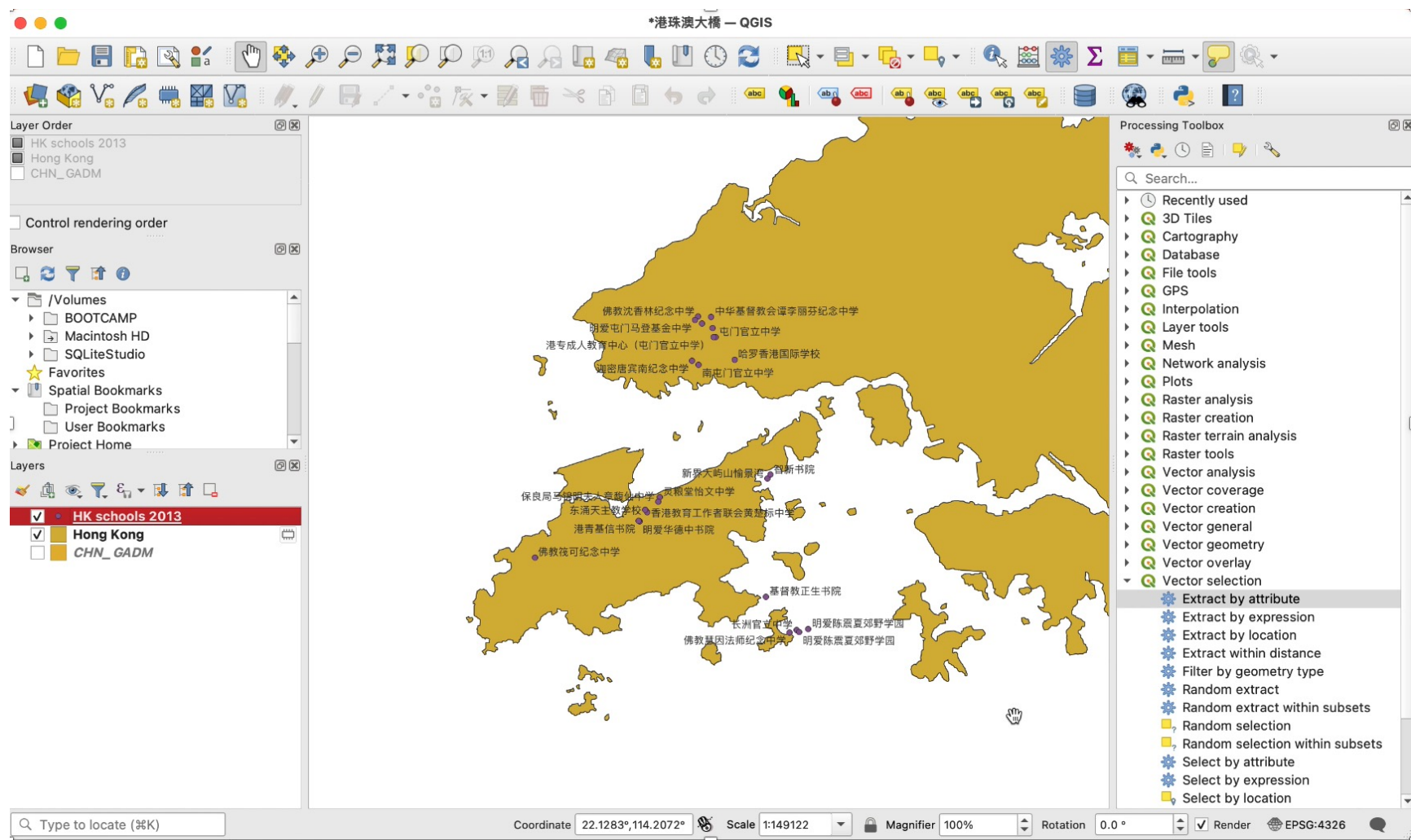
Sheet1

Ready Accessibility: Good to go

找经纬度



通过QGIS 画香港的医院分布



谢谢

林立业

2024/6/3

