

物聯網實務 HW9

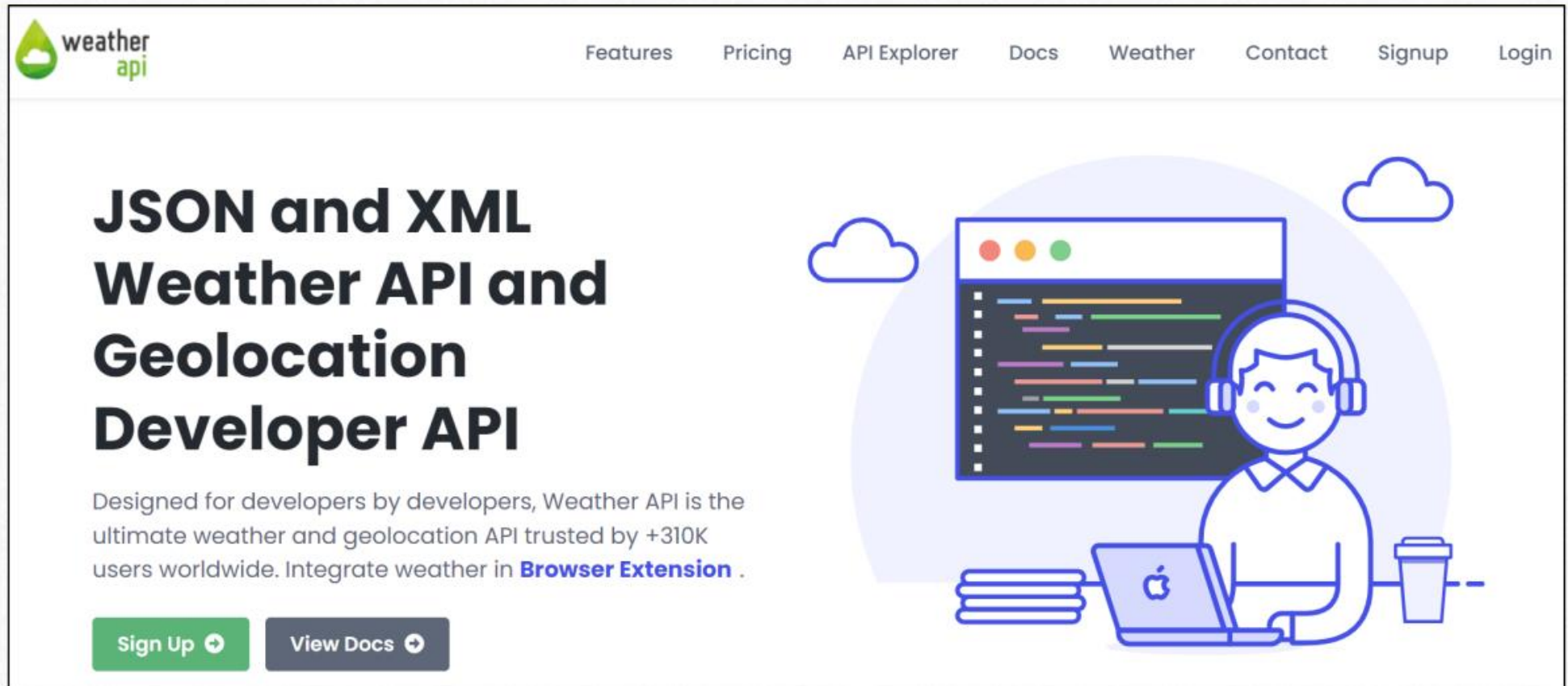
電機碩一 11278008 林佳慧

日期:2023/11/15

Exercise 9-1

Get the weather information from weather API and show them on the debug window in Node-RED

Weather API



The image shows the header and hero section of the Weather API website. The header includes the Weather API logo (a green leaf icon) and a navigation menu with links: Features, Pricing, API Explorer, Docs, Weather, Contact, Signup, and Login. The hero section features a large heading, a descriptive paragraph, and two call-to-action buttons. To the right of the text is a blue line-art illustration of a developer wearing a headset, sitting at a desk with a laptop, and looking at a large screen displaying code. There are also clouds and a coffee cup in the illustration.


weather api

Features Pricing API Explorer Docs Weather Contact Signup Login

JSON and XML Weather API and Geolocation Developer API

Designed for developers by developers, Weather API is the ultimate weather and geolocation API trusted by +310K users worldwide. Integrate weather in [Browser Extension](#).

[Sign Up](#) [View Docs](#)



A blue line-art illustration of a developer wearing a headset, sitting at a desk with a laptop, and looking at a large screen displaying code. There are also clouds and a coffee cup in the illustration.

<https://www.weatherapi.com/>

Sign Up

Sign Up

On sign up you will be subscribed to Pro Plus plan for free, no obligation 14 day trial. After trial has ended you will be automatically switched to Free plan.

Note: All the fields are required!

Email (*Your email is your username*)

g11278008@cycu.edu.tw

Retype Email

g11278008@cycu.edu.tw

Password

.....

Retype Password

.....

Are you human?



我不是機器人



I have read and agree to [T&C's](#) and [Privacy Policy](#).

Sign up

Account verification

Hello,

Thanks for signing up.

You will only need to visit the link once to verify and activate your account.

To complete your account verification, please click the link given below:-

<https://www.weatherapi.com/confirm.aspx?code=1bc25164-83fc-419f-af31-b2bc4a654f71>

If the above link does not work, please copy and paste link into your web browser.

If you are still having problems signing up then please do get in touch.


Thanks,


Sana


WeatherAPI.com Support Team


w: <https://www.weatherapi.com/>



 Dashboards

 API Response Fields

 Analytics

 Accounts

Change Plan

Payment Method

Billing

☒ Support

☒ API Explorer

☒ Swagger Tool

☒ Change Password

☒ Log out

Welcome Back

API Key: 1bc2516483fc419faf362838231511

Copy

LIVE

TRIAL Ends on 29/Nov/2023



Pro
Plus
Plan



5,000,0
Calls per
Month




0
Calls
Made




29/Nov
Trial
End Date


Note: If you are on a trial plan then after the trial plan ends your API key will be automatically moved to Free plan if you do not wish to upgrade to a paid plan.




 Dashboards

1

 API Response Fields

 Analytics

 Accounts



Change Plan

Payment Method

Billing

☒ Support

3

☒ API Explorer

☒ Swagger Tool

☒ Change Password

☒ Log out

Welcome Back

Change Fields

By default we return all weather fields in response and that may not be ideal for your application. So provided below you could enable or disable the fields you would like to remove from your response.

If you wish any fields to not appear in the json response then simply uncheck that fields below and click on Save button at the bottom of screen.

2. Copy

API Key: 1bc2516483fc419faf362838231511

Current Weather

☒ last_updated_epoch

☒ last_updated

☒ temp_c

☒ temp_f

Interactive API Explorer

WeatherAPI.com interactive API explorer or IO Docs allows you to test our APIs and methods. It returns response headers, response code and response body.

For complete documentation please visit our [Weather API Documentation](#) section.

You can also now use our Swagger tool to learn as to how to form weather Request. Visit [Swagger Tool](#)

Your API Key

1bc2516483fc419faf362838231511

1. Paste

Protocol

HTTPS

2. HTTPS

Format

JSON

3. JSON

 [Contact us](#)

Parameter	Value	Type	Location	Description
q	<input type="text" value="London"/>	string	query	Pass US Zipcode, UK Postcode, Canada Postalcode, IP address, Latitude/Longitude (decimal degree) or city name. Visit request parameter section to learn more.

4. London

Current

Forecast

Search/Autocomplete

History

Future

Marine

Astronomy

Time Zone

Sports

Parameter	Value	Type	Location	Description
aqi	<div>yes</div>	string	query	Get air quality data

Show Response

5. yes

Contact us

Call

Copy

```
https://api.weatherapi.com/v1/current.json?key=1bc2516483fc419faf362838231511&q=London&aqi=yes
```

Response Code

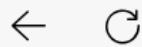
```
200
```

Response Headers

```
{
  "Transfer-Encoding": "chunked",
  "Connection": "keep-alive",
  "Vary": "Accept-Encoding",
  "CDN-PullZone": "93447",
  "CDN-Uid": "8fa3a04a-75d9-4707-8056-b7b33c8ac7fe",
  "CDN-RequestCountryCode": "GB",
  "Age": "0",
  "x-weatherapi-qpm-left": "5000000",
  "CDN-ProxyVer": "1.04",
  "CDN-RequestPullSuccess": "True",
  "CDN-RequestPullCode": "200",
  "CDN-CachedAt": "11/15/2023 06:38:15",
  "CDN-EdgeStorageId": "752",
  "CDN-Status": "200"
}
```



Contact us



https://api.weatherapi.com/v1/current.json?key=1bc2516483fc419faf362838231511&q=London&aqi=yes

```
1 {
2   "location": {
3     "name": "London",
4     "region": "City of London, Greater London",
5     "country": "United Kingdom",
6     "lat": 51.52,
7     "lon": -0.11,
8     "tz_id": "Europe/London",
9     "localtime_epoch": 1700030299,
10    "localtime": "2023-11-15 6:38"
11  },
12  "current": {
13    "last_updated_epoch": 1700029800,
14    "last_updated": "2023-11-15 06:30",
15    "temp_c": 8,
16    "temp_f": 46.4,
17    "is_day": 0,
18    "condition": {
19      "text": "Clear",
20      "icon": "//cdn.weatherapi.com/weather/64x64/night/113.png",
21      "code": 1000
22    },
23    "wind_mph": 11.9,
24    "wind_kph": 19.1,
25    "wind_degree": 250,
26    "wind_dir": "WSW",
27    "pressure_mb": 1014,
28    "pressure_in": 29.94,
29    "precip_mm": 0,
30    "precip_in": 0,
31    "humidity": 93,
32    "cloud": 0,
33    "feelslike_c": 5.3,
34    "feelslike_f": 41.5,
35    "vis_km": 10,
36    "vis_miles": 6,
37    "uv": 1,
38    "gust_mph": 15.3,
39    "gust_kph": 24.7,
40    "air_quality": {
41      "co": 237,
42      "no2": 8.7,
43      "o3": 58.7,
44      "so2": 4.4,
45      "pm2_5": 1.3,
```

1. Paste

2. Select All & Copy

New document 1



text tree table

```
28 "pressure_in": 29.94,
29 "precip_mm": 0,
30 "precip_in": 0,
31 "humidity": 93,
32 "cloud": 0,
33 "feelslike_c": 5.3,
34 "feelslike_f": 41.5,
35 "vis_km": 10,
36 "vis_miles": 6,
37 "uv": 1,
38 "gust_mph": 15.3,
39 "gust_kph": 24.7,
40 "air_quality": {
41   "co": 237,
42   "no2": 8.7,
43   "o3": 58.7,
44   "so2": 4.4,
45   "pm2_5": 1.3,
46   "pm10": 2.8,
47   "us-epa-index": 1,
48   "gb-defra-index": 1
49 }
```

1. Paste

正在等候 cdn.id5-sync.com...

New document 2



text tree table

```
>
{
  location : {
    name : London
    region : City of London, Greater London
    country : United Kingdom
    lat : 51.52
    lon : -0.11
    tz_id : Europe/London
    localtime_epoch : 1700030299
    localtime : 2023-11-15 6:38
  }
  current : {
    last_updated_epoch : 1700029800
    last_updated : 2023-11-15 06:30
    temp_c : 8
    temp_f : 46.4
    is_day : 0
    condition : {
      text : Clear
      icon : //cdn.weatherapi.com/weather/64x64/night/113.png
      code : 1000
    }
  }
}
```

2

Copy



Transform



Differences

☐ Compare

New document 1



text tree table

```
28  "pressure_in": 29.94,  
29  "precip_mm": 0,  
30  "precip_in": 0,  
31  "humidity": 93,  
32  "cloud": 0,  
33  "feelslike_c": 5.3,  
34  "feelslike_f": 41.5,  
35  "vis_km": 10,  
36  "vis_miles": 6,  
37  "uv": 1,  
38  "gust_mph": 15.3,  
39  "gust_kph": 24.7,  
40  "air_quality": {  
41    "co": 237,  
42    "no2": 8.7,  
43    "o3": 58.7,  
44    "so2": 4.4,  
45    "pm2_5": 1.3,  
46    "pm10": 2.8,  
47    "us-epa-index": 1,  
48    "gb-defra-index": 1  
49  }
```

Line: 51 Column: 2

Copy



Transform



Differences

☐ Compare

New document 2



text tree table

```
>  
  
precip_in : 0  
humidity : 93  
cloud : 0  
feelslike_c : 5.3  
feelslike_f : 41.5  
vis_km : 10  
vis_miles : 6  
uv : 1  
gust_mph : 15.3  
gust_kph : 24.7  
▼ air_quality : {  
  co : 237  
  no2 : 8.7  
  o3 : 58.7  
  so2 : 4.4  
  pm2_5 : 1.3  
  pm10 : 2.8  
  us-epa-index : 1  
  gb-defra-index : 1  
}
```

http request



Edit http request node

Delete Cancel Done

Properties

Method GET

URL https://api.weatherapi.com/v1/current.json?key=1b

Payload Ignore

☐ Enable secure (SSL/TLS) connection

☐ Use authentication

☐ Enable connection keep-alive

☐ Use proxy

☐ Only send non-2xx responses to Catch node

☐ Disable strict HTTP parsing

Return a parsed JSON object

Enabled

My weather API

A parsed JSON object

Click



Triger

```
2023/11/15 下午2:46:52 node: debug 28
msg.payload : Object
▶ { location: object, current: object }
```

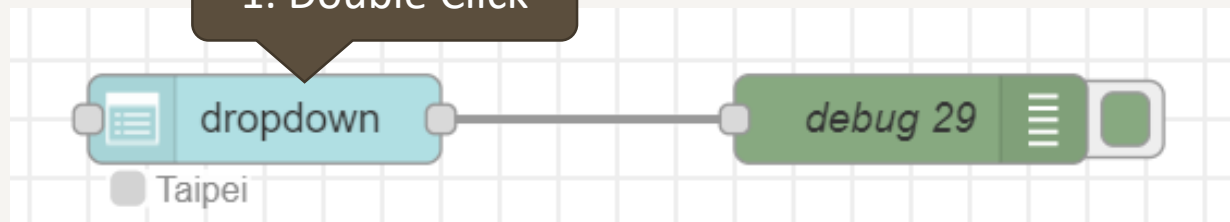
Expand

```
msg.payload : Object
▼ object
  ▼ location: object
    name: "London"
    region: "City of London, Greater London"
    country: "United Kingdom"
    lat: 51.52
    lon: -0.11
    tz_id: "Europe/London"
    localtime_epoch: 1700030768
    localtime: "2023-11-15 6:46"
  ▼ current: object
    last_updated_epoch: 1700030700
    last_updated: "2023-11-15 06:45"
    temp_c: 8
    temp_f: 46.4
    is_day: 0
    ▶ condition: object
      wind_mph: 10.5
      wind_kph: 16.9
```

Exercise 9-2

Build a weather station

1. Double Click



Edit dropdown node

Delete Cancel Done

Properties

2

Group Add new dashboard group... 3

Size auto

Label optional label

Tooltip optional tooltip

Placeholder Select option

Options

Edit dropdown node > Add new dashboard group config node

Cancel Add

Properties

Name Default 4

Tab Add new dashboard tab... 5

Class Optional CSS class name(s) for widget

Width 6

☒ Display group name

☐ Allow group to be collapsed

Edit dropdown node > Add new dashboard group config node > Add new dashboard tab config node

Cancel Add

Properties

6

Name Home 9-2

Icon dashboard

State Enabled 7

Edit dropdown node

Delete

Cancel

Done

Properties

Label optional label

Tooltip optional tooltip

Placeholder Select option

Options

1

▼ a_z Taipei

Taipei

×

3

▼ a_z London

London

×

5

▼ a_z Singapur

Singapur

×

7

▼ a_z Paris

Paris

×

9

▼ a_z Taichung

Taichung

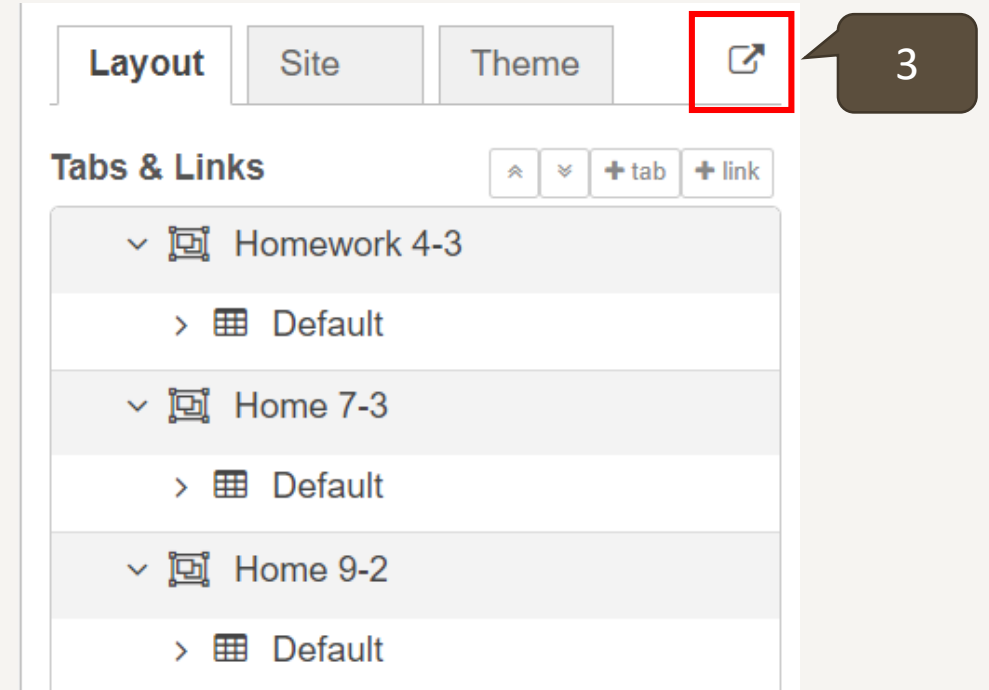
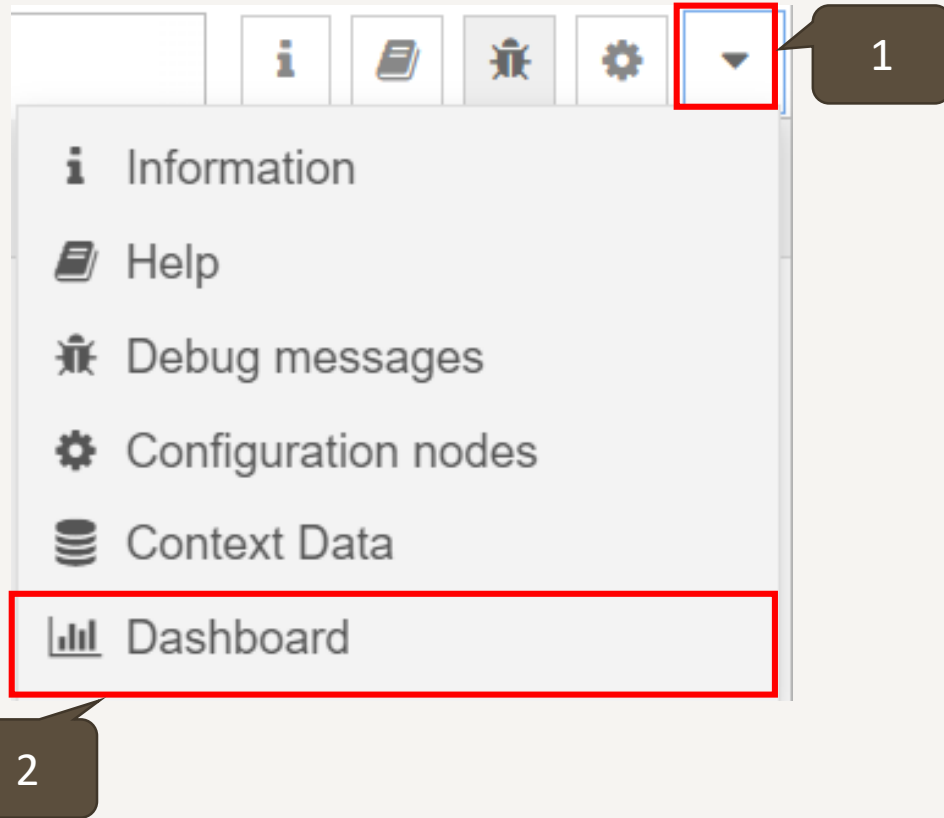
×

+ option

2,4,6,8

10

Go to Dashboard



Default

Taipei



Choose Taipei



```
2023/11/15 下午3:00:48 node: debug 29
```

```
msg.payload : string[6]
```

```
"Taipei"
```

≡ Home 9-2

Default Choose London

London

≡ Home 9-2

Default Choose Singapur

Singapur

≡ Home 9-2

Default Choose Paris

Paris

≡ Home 9-2

Default Choose Taichung

Taichung

2023/11/15 下午3:01:55 node: debug 29

msg.payload : string[6]

"London"

2023/11/15 下午3:02:31 node: debug 29

msg.payload : string[8]

"Singapur"

2023/11/15 下午3:02:45 node: debug 29

msg.payload : string[5]

"Paris"

2023/11/15 下午3:02:57 node: debug 29

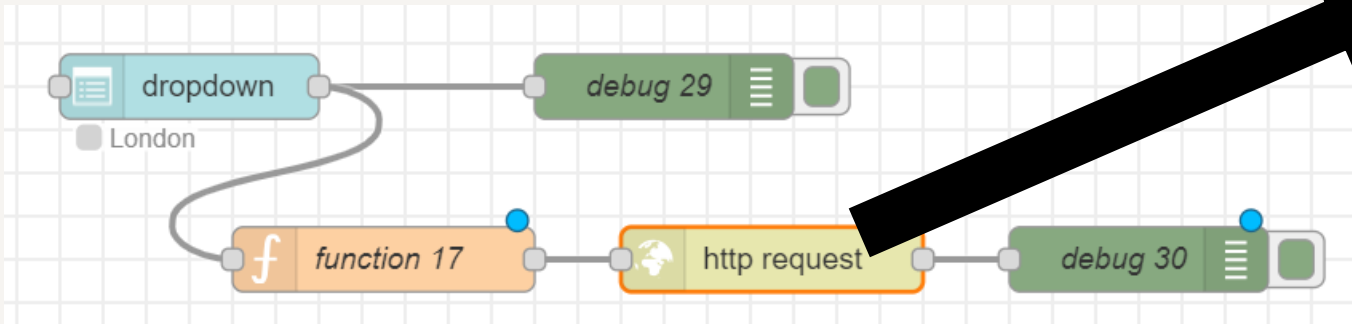
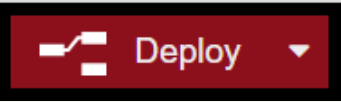
msg.payload : string[8]

"Taichung"

< Flow 15

debug 29

Add nodes



Edit http request node

Delete Cancel Done

Properties

Method GET blank

URL http://

Payload Ignore

☐ Enable secure (SSL/TLS) connection

☐ Use authentication

☐ Enable connection keep-alive

☐ Use proxy

☐ Only send non-2xx responses to Catch node

☐ Disable strict HTTP parsing

Return a parsed JSON object A parsed JSON object

Enabled

```
var city=msg.payload;
msg.url="https://api.weatherapi.com/v1/current.json?key=3xxx11&q="+city+"&aqi=yes";
return msg;
```

Test with choosing London

Home 9-2

Default

Choose London

London

The screenshot shows a web application interface with a blue header bar containing a hamburger menu icon and the text 'Home 9-2'. Below the header, there is a 'Default' label in blue. A brown speech bubble with the text 'Choose London' points to a dropdown menu. The dropdown menu is currently displaying 'London' and is highlighted with a red rectangular border. Below the web application, a Node-RED workflow is shown on a grid background. The workflow consists of four nodes connected in sequence: a 'dropdown' node (light blue) with a 'London' option selected, a 'function 17' node (orange), an 'http request' node (yellow), and a 'debug 30' node (green). A black arrow points from the 'debug 30' node in the workflow to the debug console on the right.

2023/11/15 下午3:13:06 node: debug 29

msg.payload : string[6]

"London"

2023/11/15 下午3:13:07 node: debug 30

msg.payload : Object

▼object

▼location: object

name: "London"

region: "City of London, Greater London"

country: "United Kingdom"

lat: 51.52

lon: -0.11

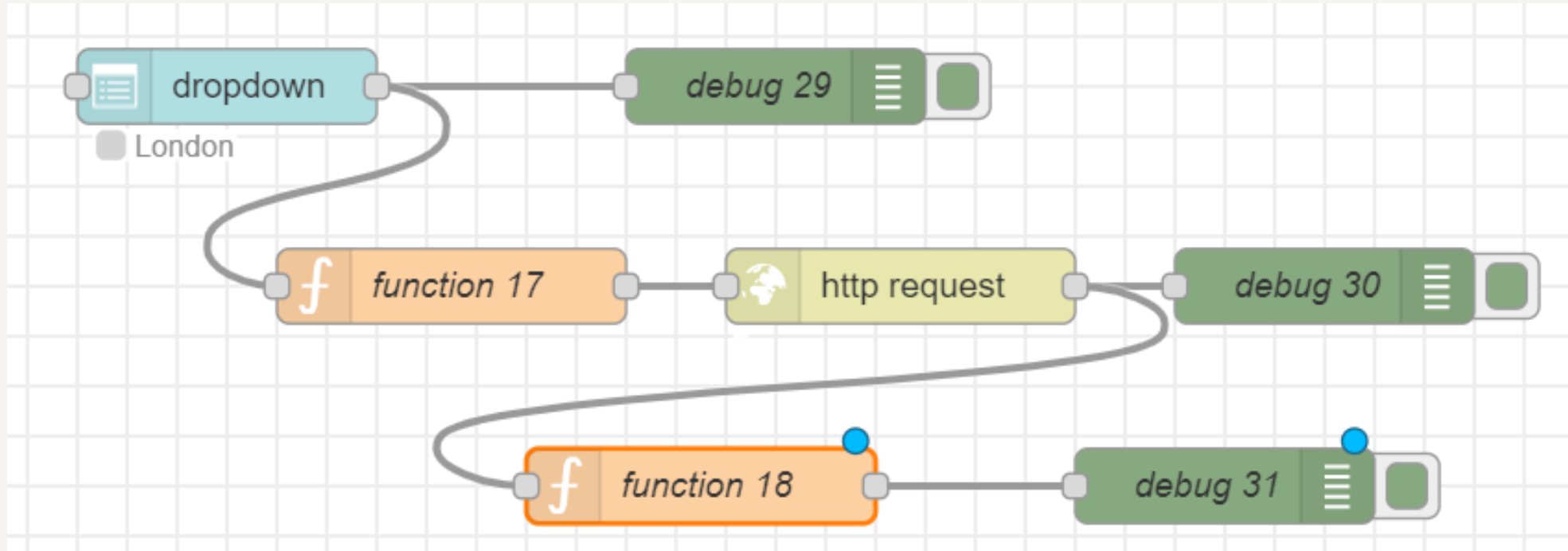
tz_id: "Europe/London"

localtime_epoch: 1700032344

localtime: "2023-11-15 7:12"

►current: object

Add a function node and a debug node



```
var obj = msg.payload;  
var current = obj.current;  
msg.payload = current;  
return msg;
```


Choose Taipei

≡ Home 9-2

Default

Choose Taichung

Taichung

Expand

msg.payload : string[8]

"Taichung"

2023/11/15 下午3:15:37 node: debug 30

msg.payload : Object

▶ { location: object, current: object
}

2023/11/15 下午3:15:38 node: debug 31

msg.payload : Object

▼ object

last_updated_epoch: 1700031600

last_updated: "2023-11-15 15:00"

temp_c: 26

temp_f: 78.8

is_day: 1

▶ condition: object

wind_mph: 9.4

wind_kph: 15.1

wind_degree: 360

wind_dir: "N"

pressure_mb: 1018

pressure_in: 30.06

▶ condition: object

wind_mph: 9.4

wind_kph: 15.1

wind_degree: 360

wind_dir: "N"

pressure_mb: 1018

pressure_in: 30.06

precip_mm: 0

precip_in: 0

humidity: 61

cloud: 25

feelslike_c: 26.8

feelslike_f: 80.2

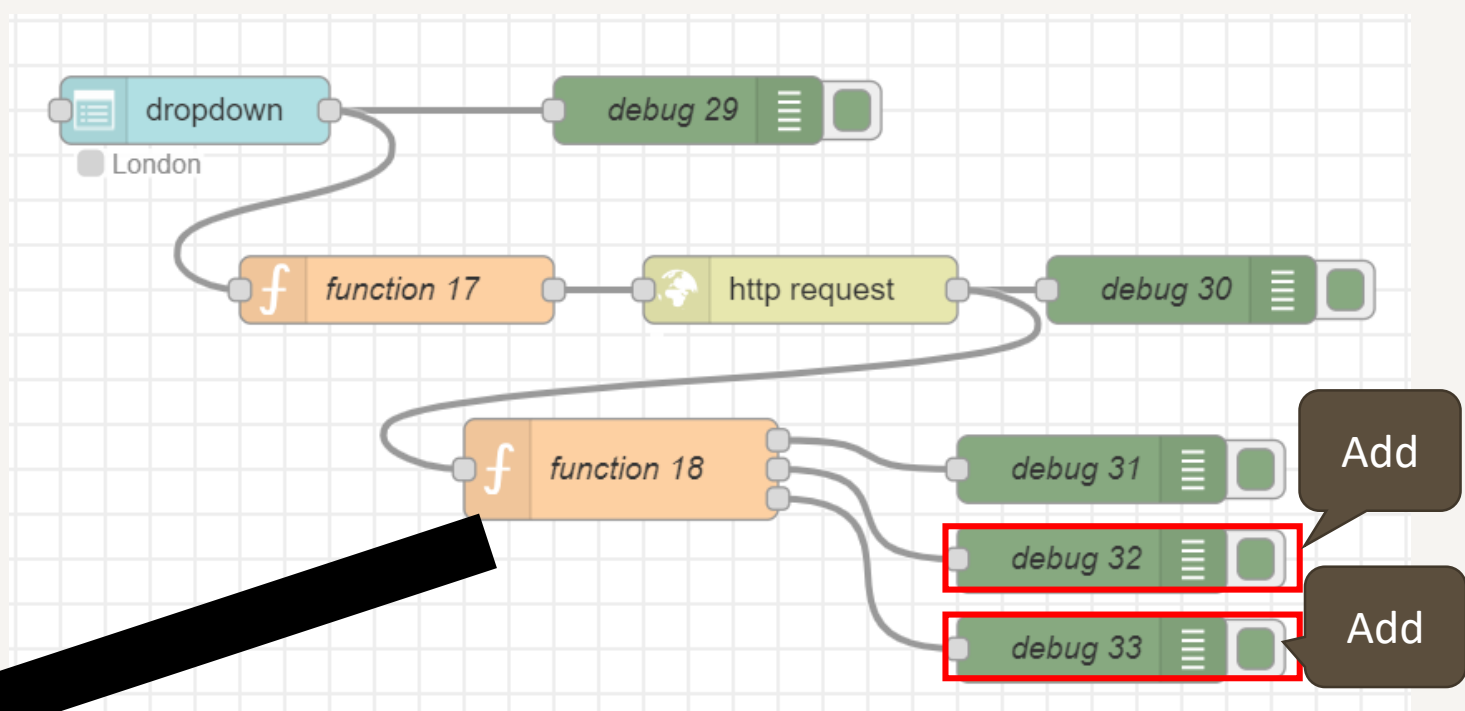
vis_km: 10

vis_miles: 6

uv: 7

gust_mph: 10

gust_kph: 16.2



```
var obj = msg.payload;
var current = obj.current;
var temp_c = current.temp_c;
var humidity = current.humidity;
var uv = current.uv;
msg={};
let msg1={};
let msg2={};
msg.topic = "temperature";
msg.payload = temp_c;
msg1.topic = "humidity";
msg1.payload = humidity;
msg2.topic = "uv";
msg2.payload = uv;
return [msg,msg1,msg2];
```

Edit function node

Delete Cancel Done

⚙ Properties

📌 Name function 18

⚙ Setup On Start On Message On Stop

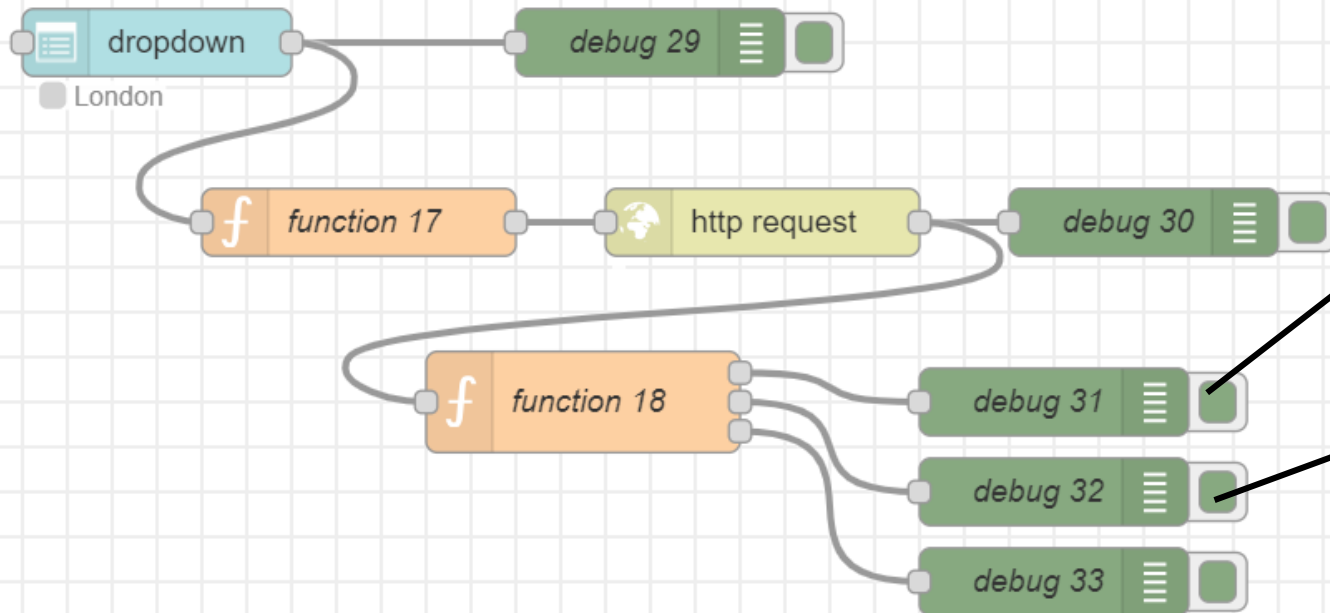
🔗 Outputs 3 Timeout 0

≡ Home 9-2

Default

Choose London

London



2023/11/15 下午3:22:02 node: debug 29

msg.payload : string[6]

"London"

2023/11/15 下午3:22:02 node: debug 30

msg.payload : Object

▶ { location: object, current: object }

2023/11/15 下午3:22:02 node: debug 31

temperature : msg.payload : number

8

2023/11/15 下午3:22:02 node: debug 32

humidity : msg.payload : number

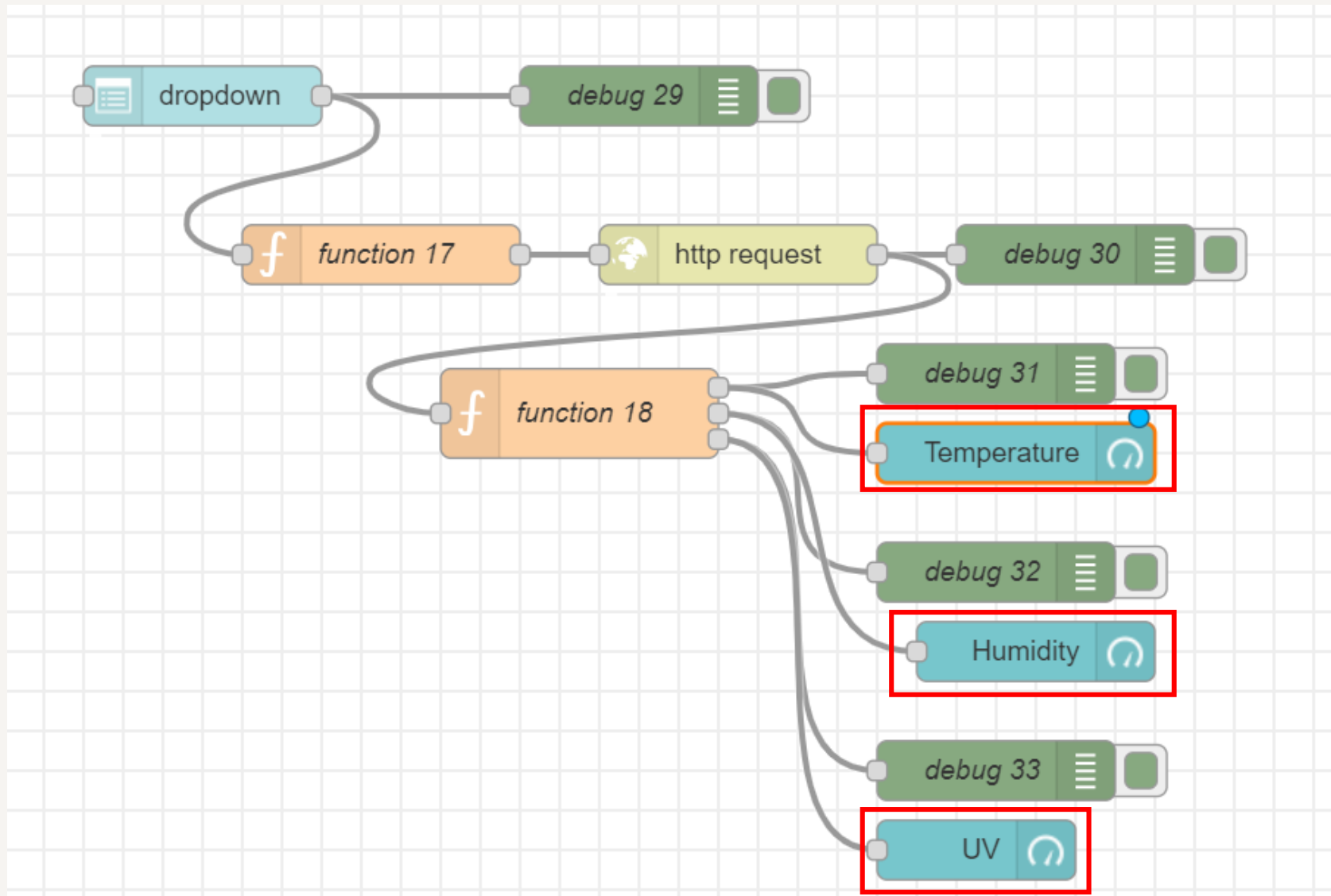
93

2023/11/15 下午3:22:02 node: debug 33

uv : msg.payload : number

1

Add gauge



Edit gauge node

Delete Cancel

Home 9-2

Properties

Group [Home 9-2] Default

Size auto

Type Gauge

Label UV

Value format {{value}}

Units units

Range min 0 max 10

Colour gradient

Edit gauge node

Delete Cancel

Home 9-2

Properties

Group [Home 9-2] Default

Size auto

Type Gauge

Label humidity

Value format {{value}}

Units units

Range min 0 max 100

Colour gradient

Sectors 0 optional optional 100

Edit gauge node

Delete Cancel Done

Home 9-2

Properties

Group [Home 9-2] Default

Size auto

Type Gauge

Label Temperature

Value format {{value}}

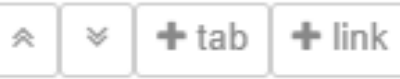
Units units


Range min -20 max 50

Colour gradient


Sectors -20 optional optional 50

Tabs & Links




▼  Homework 4-3

>  Default

▼  Home 7-3

>  Default

▼  Home 9-2

▼  Default

 dropdown

 UV

 Humidity

 Temperature

Move to the top



Deploy



Result

≡ Home 9-2

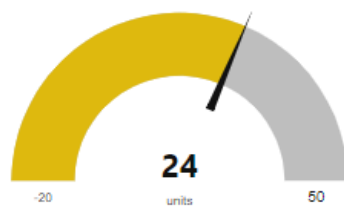
≡ Home 9-2

≡ Home 9-2

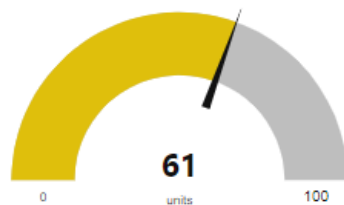
Default

Taipei

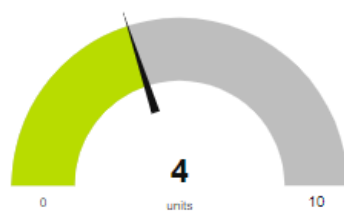
Temperature



Humidity



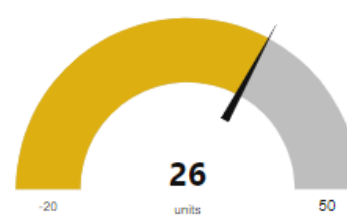
UV



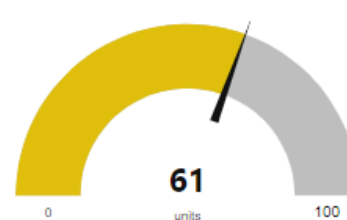
Default

Taichung

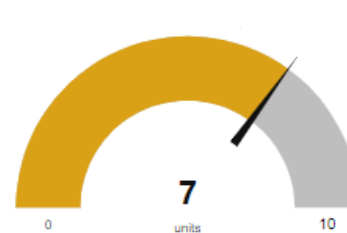
Temperature



Humidity



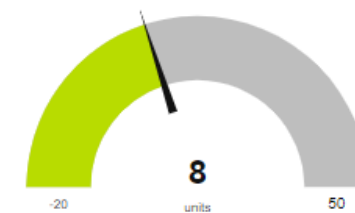
UV



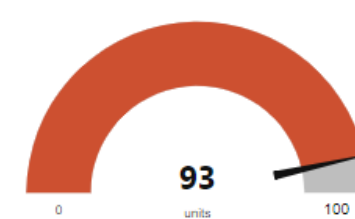
Default

London

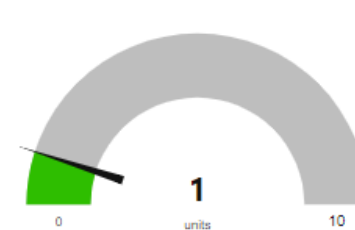
Temperature



Humidity

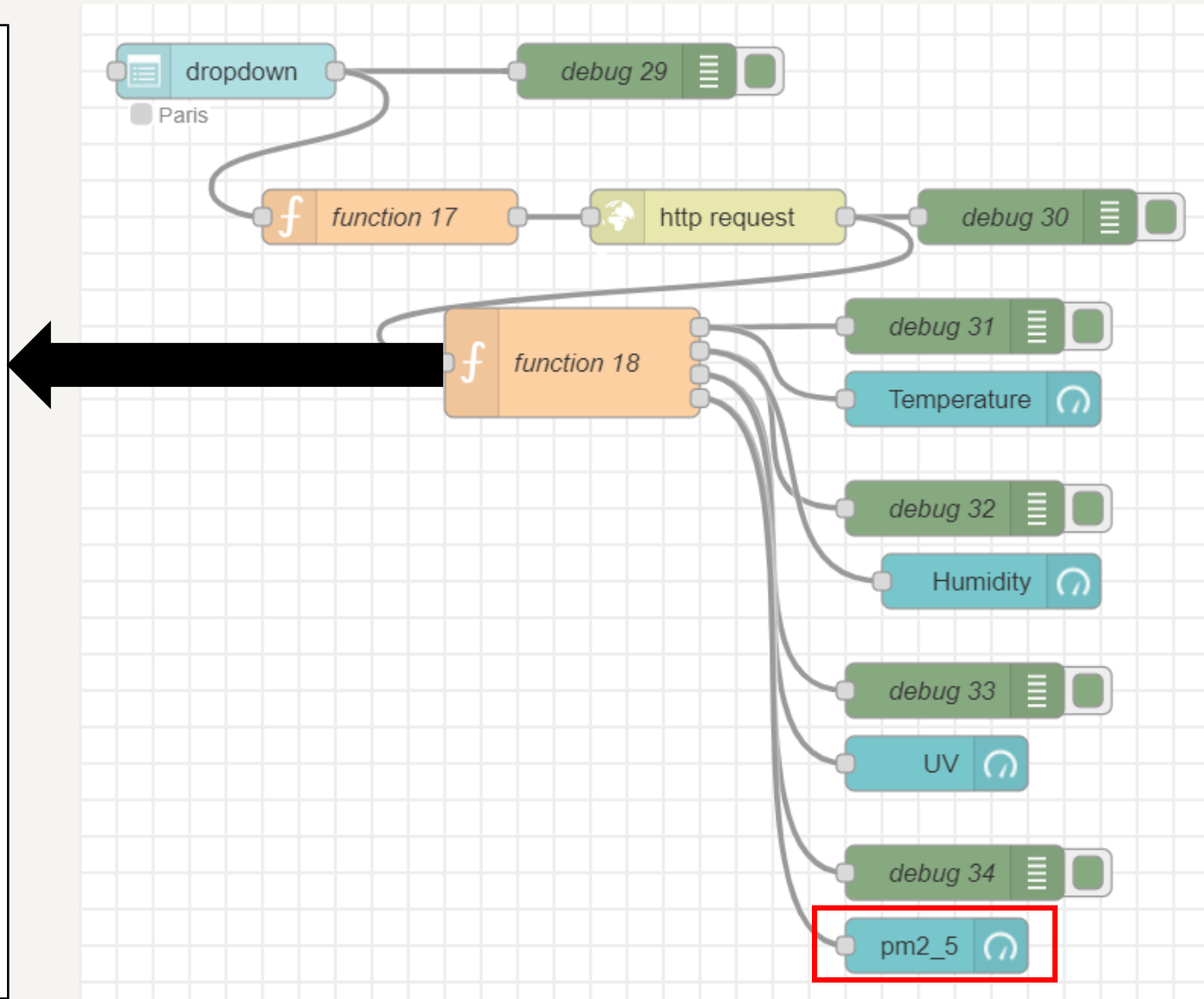


UV



Add a pm2_5 gauge

```
var obj = msg.payload;
var current = obj.current;
var temp_c = current.temp_c;
var humidity = current.humidity;
var uv = current.uv;
var pm2_5 = current.air_quality.pm2_5;
msg={};
let msg1={};
let msg2={};
let msg3={};
msg.topic = "temperature";
msg.payload = temp_c;
msg1.topic = "humidity";
msg1.payload = humidity;
msg2.topic = "uv";
msg2.payload = uv;
msg3.topic = "pm2_5";
msg3.payload = pm2_5;
return [msg,msg1,msg2,msg3];
```



Edit gauge node

Delete

Cancel

Done

Properties

Home 9-2

Group

[Home 9-2] Default

Size

auto

Type

Gauge

Pm2_5

Label

pm2_5

Value format

{{value}}

Units

units

0

230

Range

min

0

max

230

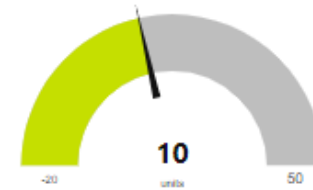
Colour gradient



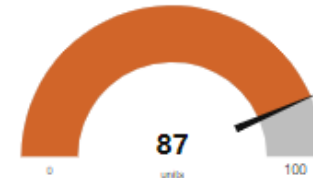
Default

Paris

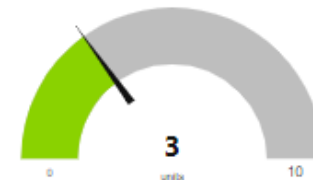
Temperature



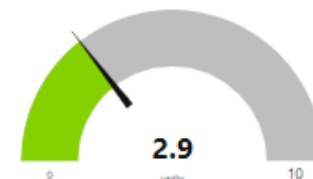
Humidity



UV

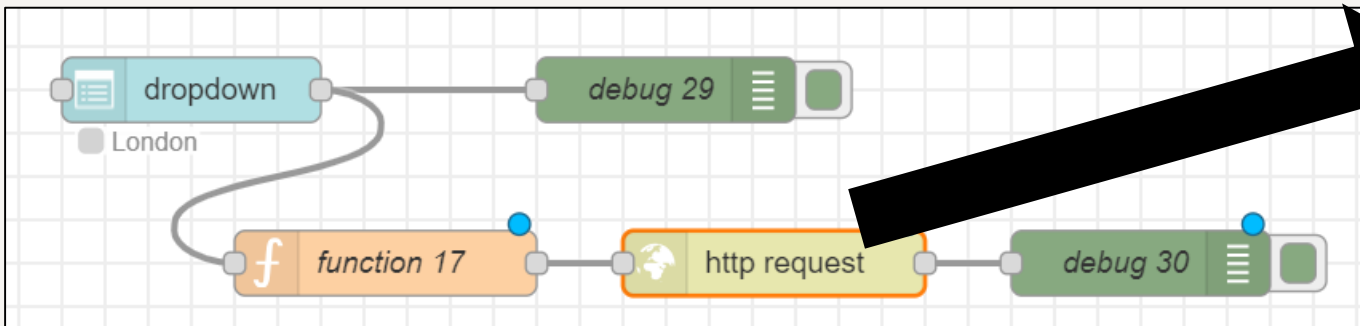


pm2_5



Homework 9-1

- Test the weather API for seven different cities.
- Taipei
- London
- Singapur
- Paris
- Taichung
- Taoyuan
- New Yor



Edit http request node

Delete Cancel Done

Properties

Method GET city weather API

URL https://api.weatherapi.com/v1/current.json?key=1b

Payload Ignore

☐ Enable secure (SSL/TLS) connection

☐ Use authentication

☐ Enable connection keep-alive

☐ Use proxy

☐ Only send non-2xx responses to Catch node

☐ Disable strict HTTP parsing

Return a parsed JSON object A parsed JSON object

Enabled

Parameter	Value	Type	Location	Description
q	Taipei	string	query	Pass US Zipcode, UK Postcode, Canada Postalcode, IP address, Latitude/Longitude (decimal degree) or city name. Visit request parameter section to learn more.

1. Taipei

Current Forecast Search/Autocomplete History Future Marine Astronomy Time Zone Sports

Parameter	Value	Type	Location	Description
aqi	yes	string	query	Get air quality data

Show Response

2. Yes

4. Copy

Call

https://api.weatherapi.com/v1/current.json?key=1bc2516483fc419faf362838231511&q=Taipei&aqi=yes

Edit http request node

Delete

Cancel

Done

Properties

Method

GET

URL

https://api.weatherapi.com/v1/current.json?key=1t

5. Paste

2023/11/15 下午2:48:29 node: debug 28

msg.payload : Object

▼object

►location: object

▼current: object

last_updated_epoch: 1700030700

last_updated: "2023-11-15 14:45"

temp_c: 24

temp_f: 75.2

is_day: 1

►condition: object

wind_mph: 24.2

wind_kph: 38.9

wind_degree: 90

wind_dir: "E"

pressure_mb: 1021

pressure_in: 30.15

precip_mm: 0.04

precip_in: 0

humidity: 65

cloud: 50

Parameter	Value	Type	Location	Description
q	London	string	query	Pass US Zipcode, UK Postcode, Canada Postalcode, IP address, Latitude/Longitude (decimal degree) or city name. Visit request parameter section to learn more.

1. London

Current Forecast Search/Autocomplete History Future Marine Astronomy Time Zone Sports

Parameter	Value	Type	Location	Description
aqi	yes	string	query	Get air quality data

Show Response

2. Yes

4. Copy

Call

https://api.weatherapi.com/v1/current.json?key=1bc2516483fc419faf362838231511&q=London&aqi=yes

Edit http request node

Delete

Cancel

Done

Properties

Method

GET

URL

https://api.weatherapi.com/v1/current.json?key=1t

5. Paste

msg.payload : Object

▼object

▼location: object

name: "London"

region: "City of London, Greater London"

country: "United Kingdom"

lat: 51.52

lon: -0.11

tz_id: "Europe/London"

localtime_epoch: 1700030768

localtime: "2023-11-15 6:46"

▼current: object

last_updated_epoch: 1700030700

last_updated: "2023-11-15 06:45"

temp_c: 8

temp_f: 46.4

is_day: 0

►condition: object

wind_mph: 10.5

wind_kph: 16.9

Parameter	Value	Type	Location	Description
q	Singapur	string	query	Pass US Zipcode, UK Postcode, Canada Postalcode, IP address, Latitude/Longitude (decimal degree) or city name. Visit request parameter section to learn more.

1. Singapur

Current Forecast Search/Autocomplete History Future Marine Astronomy Time Zone Sports

Parameter	Value	Type	Location	Description
aqi	yes	string	query	Get air quality data

Show Response

2. Yes

4. Copy

Call

https://api.weatherapi.com/v1/current.json?key=1bc2516483fc419faf362838231511&q=Singapur&aqi=yes

Edit http request node

Delete

Cancel

Done

Properties

Method

GET

URL

https://api.weatherapi.com/v1/current.json?key=1t

5. Paste

2023/11/15 下午2:50:33 node: debug 28

msg.payload : Object

▼object

▼location: object

name: "Singapur"

region: "Sonora"

country: "Mexico"

lat: 27.44

lon: -110.23

tz_id: "America/Hermosillo"

localtime_epoch: 1700030990

localtime: "2023-11-14 23:49"

▼current: object

last_updated_epoch: 1700030700

last_updated: "2023-11-14 23:45"

temp_c: 21

temp_f: 69.8

is_day: 0

►condition: object

wind_mph: 8.5

wind_kph: 13.7

q

Paris

string query

Pass US Zipcode, UK Postcode, Canada Postalcode, IP address, Latitude/Longitude (decimal degree) or city name. Visit [request parameter](#) section to learn more.

1. Paris

Current

Forecast

Search/Autocomplete

History

Future

Marine

Astronomy

Time Zone

Sports

Parameter

Value

Type

Location

Description

aqi

3

yes

string

query

Get air quality data

Show Response

2. Yes

4. Copy

Call

```
https://api.weatherapi.com/v1/current.json?key=1bc2516483fc419faf362838231511&q= Paris&aqi=yes
```

Edit http request node

Delete

Cancel

Done

Properties

Method

GET

5. Paste

URL

```
https://api.weatherapi.com/v1/current.json?key=1t
```

2023/11/15 下午2:51:41 node: debug 28

msg.payload : Object

▼object

▼location: object

name: "Paris"

region: "Ile-de-France"

country: "France"

lat: 48.87

lon: 2.33

tz_id: "Europe/Paris"

localtime_epoch: 1700031058

localtime: "2023-11-15 7:50"

▼current: object

last_updated_epoch: 1700030700

last_updated: "2023-11-15 07:45"

temp_c: 11

temp_f: 51.8

is_day: 0

►condition: object

wind_mph: 8.1

wind_kph: 13

q

Taichung

string query

Pass US Zipcode, UK Postcode, Canada Postalcode, IP address, Latitude/Longitude (decimal degree) or city name. Visit [request parameter](#) section to learn more.

1. Taichung

Current

Forecast

Search/Autocomplete

History

Future

Marine

Astronomy

Time Zone

Sports

Parameter

Value

Type

Location

Description

aqi

3

yes ▾

string

query

Get air quality data

Show Response

2. Yes

4. Copy

Call

```
https://api.weatherapi.com/v1/current.json?key=1bc2516483fc419faf362838231511&q=Taichung&aqi=yes
```

Edit http request node

Delete

Cancel

Done

⚙ Properties

☰ Method

GET

🌐 URL

```
https://api.weatherapi.com/v1/current.json?key=1t
```

5. Paste

2023/11/15 下午2:52:32 node: debug 28

msg.payload : Object

▼object

▼location: object

name: "Taichung"

region: "T'ai-wan"

country: "Taiwan"

lat: 24.14

lon: 120.68

tz_id: "Asia/Taipei"

localtime_epoch: 170031110

localtime: "2023-11-15 14:51"

▼current: object

last_updated_epoch: 170030700

last_updated: "2023-11-15 14:45"

temp_c: 27

temp_f: 80.6

is_day: 1

▶condition: object

wind_mph: 10.5

wind_kph: 16.9

q

Taoyuan

string query

Pass US Zipcode, UK Postcode, Canada Postcode, IP address, Latitude/Longitude (decimal degree) or city name. Visit [request parameter](#) section to learn more.

1. Taoyuan

Current

Forecast

Search/Autocomplete

History

Future

Marine

Astronomy

Time Zone

Sports

Parameter

Value

Type

Location

Description

aqi

3

yes

string

query

Get air quality data

Show Response

2. Yes

4. Copy

Call

```
https://api.weatherapi.com/v1/current.json?key=1bc2516483fc419faf362838231511&q= Taoyuan &aqi=yes
```

Edit http request node

Delete

Cancel

Done

Properties

Method

GET

URL

```
https://api.weatherapi.com/v1/current.json?key=1t
```

5. Paste

2023/11/15 下午2:53:28 node: debug 28

msg.payload : Object

▼object

▼location: object

name: "Taoyuan"

region: "T'ai-wan"

country: "Taiwan"

lat: 24.99

lon: 121.31

tz_id: "Asia/Taipei"

localtime_epoch: 1700031165

localtime: "2023-11-15 14:52"

▼current: object

last_updated_epoch: 1700030700

last_updated: "2023-11-15 14:45"

temp_c: 24

temp_f: 75.2

is_day: 1

►condition: object

wind_mph: 25.5

wind_kph: 41

q

New York

string query

Pass US Zipcode, UK Postcode, Canada Postalcode, IP address, Latitude/Longitude (decimal degree) or city name. Visit [request parameter](#) section to learn more.

1. New York

Current

Forecast

Search/Autocomplete

History

Future

Marine

Astronomy

Time Zone

Sports

Parameter

Value

Type

Location

Description

aqi

3

yes

string

query

Get air quality data

Show Response

2. Yes

4. Copy

Call

```
https://api.weatherapi.com/v1/current.json?key=1bc2516483fc419faf362838231511&q=New York&aqi=yes
```

Edit http request node

Delete

Cancel

Done

Properties

Method

GET

URL

```
https://api.weatherapi.com/v1/current.json?key=1t
```

5. Paste

2023/11/15 下午2:54:18 node: debug 28

msg.payload : Object

▼object

▼location: object

name: "New York"

region: "New York"

country: "United States of America"

lat: 40.71

lon: -74.01

tz_id: "America/New_York"

localtime_epoch: 1700031216

localtime: "2023-11-15 1:53"

▼current: object

last_updated_epoch: 1700030700

last_updated: "2023-11-15 01:45"

temp_c: 6.1

temp_f: 43

is_day: 0

►condition: object

wind_mph: 3.8

Homework 9-2

- Design ten cities weather station
- London • Singapur • Shanghai • Taipei • Taichung • Taoyuan • New York • ??
 - ?? • ?

Verify cities Weather Information

q

Chunghua

string

query

Pass US Zipcode, UK Postcode, Canada Postcalcode, IP address, Latitude/Longitude (decimal degree) or city name. Visit [request parameter](#) section to learn more.

Chunghua

Current

Forecast

Search/Autocomplete

History

Future

Marine

Astronomy

Time Zone

Sports

Parameter	Value	Type
aqi	<div>yes ▾</div>	string

Show Response

Call

https://api.weatherapi.com/v1/current.json?key=1bc2516483fc419

Parameter	Value	Type	Location	Description
q	<div>Kunshan</div>	string	query	Pass US Zipcode, UK Postcode, Canada Postcalcode, IP address, Latitude/Longitude (decimal degree) or city name. Visit request parameter section to learn more.

Kunshan

Current

Forecast

Search/Autocomplete

History

Future

Marine

Astronomy

Time Zone

Sports

Parameter	Value	Type	Location	Description
aqi	<div>yes ▾</div>	string	query	Get air quality data

Show Response

Call

https://api.weatherapi.com/v1/current.json?key=1bc2516483fc419faf362838231511&q=Kunshan&aqi=yes

Add Option

Edit dropdown node

Delete Cancel Done

Properties

Tooltip optional tooltip

Placeholder Select option

1 3 5 7 9

2,4,6,8

+ option

10

Allow multiple selections

→ If msg arrives on input, pass through to output: ☒

Enabled



Add Shanghai, Taoyuan, New York, Chunghua, Kunshan weather information

ten cities weather station

≡ Home 9-2

Taipei

London

Singapur

Paris

Taichung

Shanghai

Taoyuan

New York

Chunghua

Kunshan

0

69

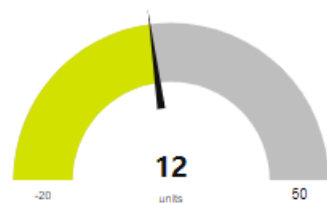
100

units

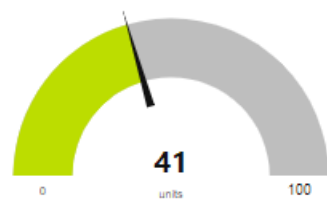
Default

Kunshan

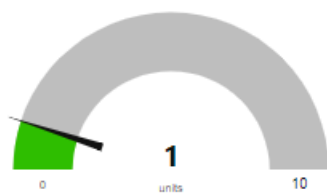
Temperature



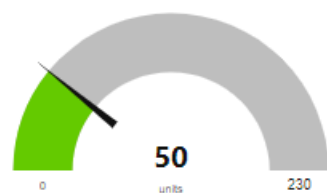
Humidity



UV



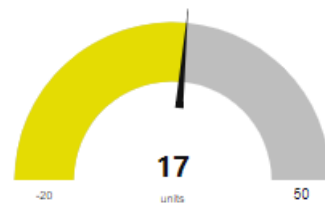
pm2_5



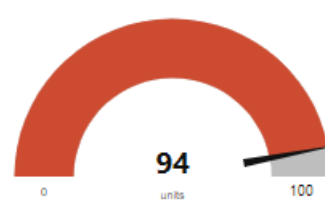
Default

Chunghua

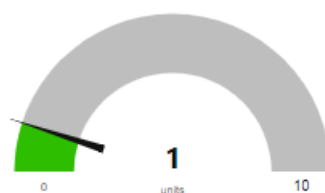
Temperature



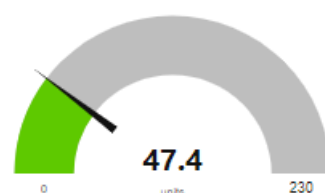
Humidity



UV



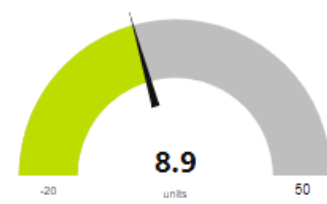
pm2_5



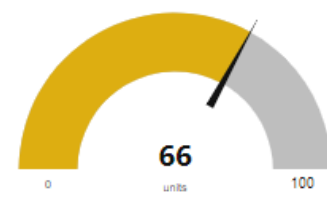
Default

New York

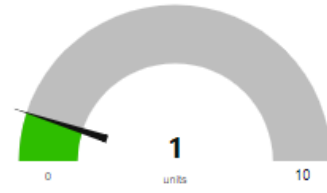
Temperature



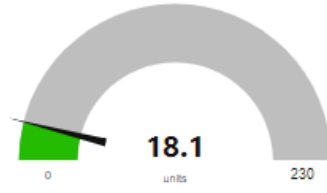
Humidity



UV



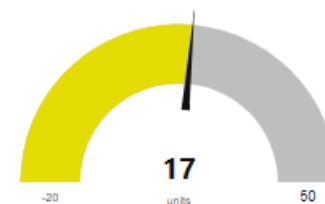
pm2_5



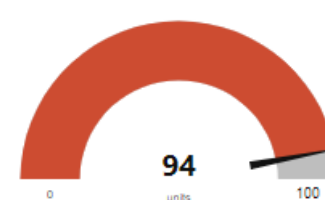
Default

Taoyuan

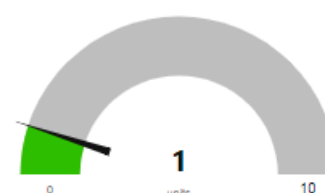
Temperature



Humidity



UV



pm2_5

