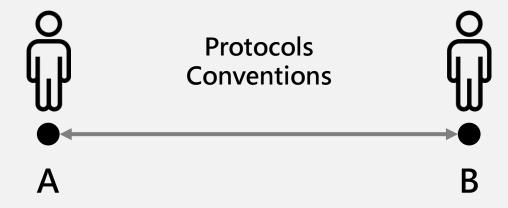
FRONT-END CODE HTML, CSS, JAVASCRIPT

Network Management of Mechanical Engineering in NCU

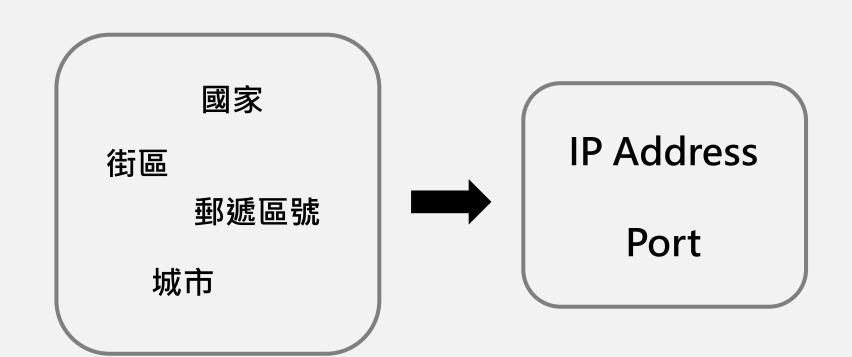
TCP/IP



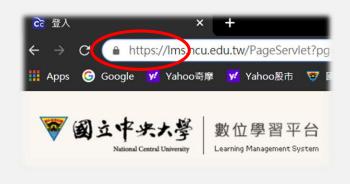
信封袋上寫什麼



信封袋上寫什麼



信封袋上寫的PORT什麼



HTTP SMTP(mail)

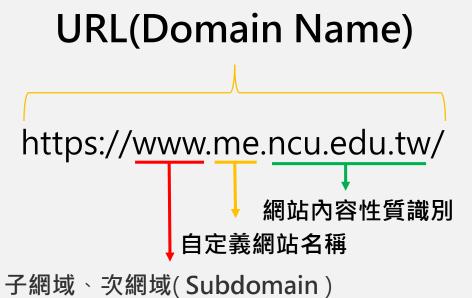
TCP/UDP埠列表

https://zh.wikipedia.org/wiki/TCP/UDP%E7%AB%AF%E5%8F%A3%E5%88%97%E8%A1%A8

信封袋裡寫什麼



信封袋裡寫什麼



你的網址不是你的網址

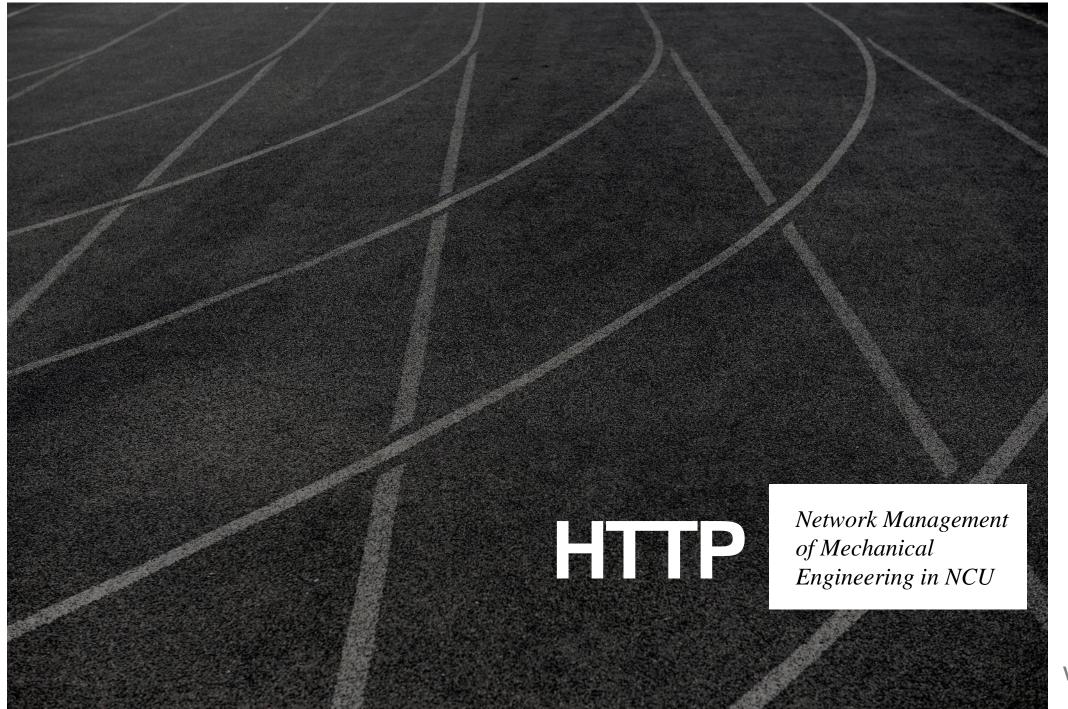
https://www.me.ncu.edu.tw/



https://www.me.ncu.edu.tw/index.html(.php)

HTTP&HTTPS

是否加密



REQUEST

```
GET // HTTP/1.1
Host: www.example.com
```

RESPONSE

HTTP/1.1 200 OK

Content-type: text/html

• • •

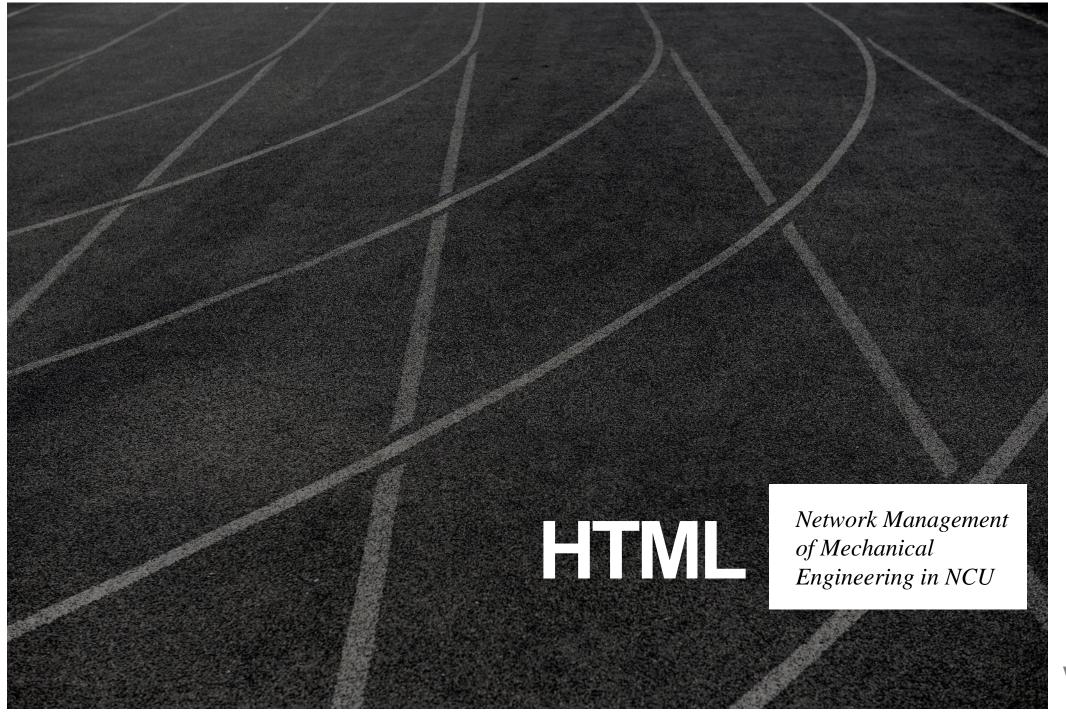
HTTP RESPONSE STATUS CODES

200 OK 301 Moved Permanently 400 Bad Request 401 Unauthorized 404 Not Found

• • •

HTTP response status codes

https://developer.mozilla.org/en-US/docs/Web/HTTP/Status



HTML是甚麼

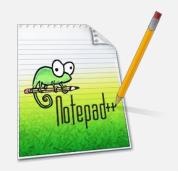
Programming Language 程式語言

> Markup Language 標記語言

EDITOR









Vs code

Sublime

Notepad++

Atom

SIMPLEST STRUCTURE OF HTML

TAG&ELEMENT



EMPTY TAG

タ

IMAGE TAG

HYPERLINK TAG

Content goes here...

PARAGRAPH TAG

```
Text in a pre element is displayed in a fixed-width font, and it preserves both spaces and line breaks
```

Text in a pre element is displayed in a fixed-width font, and it preserves both spaces and line breaks

PREFORMATTED TEXT TAG

Text in a pre element
is displayed in a fixed-width
font, and it preserves
both spaces and
line breaks

HEADINGS TAG

```
<h1>This is heading 1</h1>
<h2>This is heading 2</h2>
<h3>This is heading 3</h3>
<h4>This is heading 4</h4>
<h5>This is heading 5</h5>
<h6>This is heading 6</h6>
```

This is heading 1

This is heading 2

This is heading 3

This is heading 4

This is heading 5

This is heading 6

TABLE TAG

```
Month
   Savings
 January
   $100
 February
   $80
```

| Month | Savings |
|----------|---------|
| January | \$100 |
| February | \$80 |

如何知曉HTML語法出錯

https://validator.w3.org/#validate_by_input+with_options

FORM TAG

First name: Acer

Last name: Lu

Submit



CSS vs. HTML

HTML CSS

設計頁面架構美化頁面設計

美化甚麼

顏色、字體大小、圖片大小...

CSS語法-簡單粗暴

CSS語法-退一步海闊天空

CSS語法-CLASS的使用

```
自定義
<head>
         <style>
                  centered {text-align: center;}
                  .large{font-size: large;}
                  .medium{font-size: medium;}
                  .small{font-size: small;}
         </style>
</head>
<body class="centered">
         <header class="large">
                  I major in mechanical engineering
         </header>
         <main class="medium">
                  I come from Taiwan
         </main>
         <footer class="small">
                  I am a freshman
         </footer>
</body>
```

CSS語法-直接修改特定TAG的屬性

```
<head>
         <style>
                  body {text-align: center;}
                  header {font-size: large;}
                  main {font-size: medium;}
                  footer {font-size: small;}
         </style>
</head>
<body>
         <header>
                   I major in mechanical engineering
         </header>
         <main>
                   I come from Taiwan
         </main>
         <footer>
                   I am a freshman
         </footer>
</body>
```

CSS語法-獨立於HTML檔的CSS檔

```
<head>
       k href="xxx.css" rel="stylesheet">
</head>
<body>
       <header>
               I major in mechanical engineering
       </header>
       <main>
               I come from Taiwan
       </main>
       <footer>
               I am a freshman
       </footer>
</body>
```



JAVASCRIPT vs. CSS vs. HTML

Javascript

產生頁面動態效果

HTML

CSS

設計頁面架構

美化頁面設計

優化使用者體驗的例子

Gmail

JAVASCRIPT語法

很像C語言,但比較簡單

C vs. JAVASCRIPT-宣告變數

C語言

int speed = 0;

Javascript

let speed = 0;

C vs. JAVASCRIPT-更新數值

C語言

C vs. JAVASCRIPT-IF判斷式

C語言

```
if(x<y)
{
}
else
{
}</pre>
```

```
if(x<y) {
}
else {
}</pre>
```

C vs. JAVASCRIPT-無限迴圈

C語言

```
while(true)
{
}
```

```
while(true) {
}
```

C vs. JAVASCRIPT-FOR迴圈

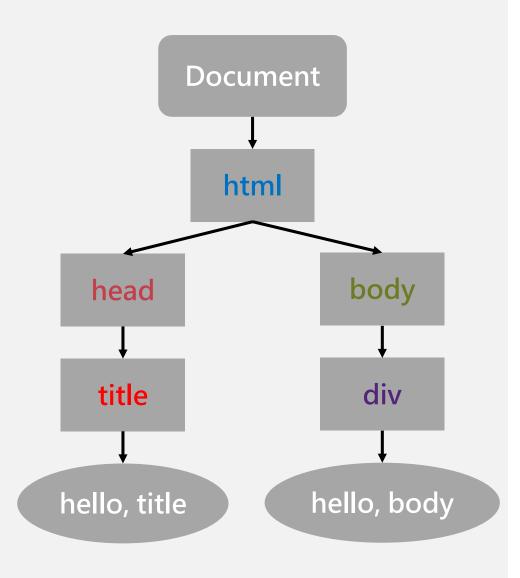
C語言

```
for(int i = 0; i < 5; i++) {
}
```

```
for(let i = 0; i < 5; i++) {
}
```

DOM樹狀結構

```
<!DOCTYPE html>
<html>
        <head>
                <title>
                        hello, title
                </title>
       </head>
        <body>
                <div>
                        hello, body
                </div>
       </body>
</html>
```



DOCUMENT是啥?

- 一個網頁的入口點
- DOM樹的進入點
- 有許多的函示可以使用
- 函式作用包括改變HTML(DOM樹)

用JAVASCRIPT改變樹狀結構

```
<head>
        <title>
                hello, title
        </title>
        <script>
               function helloName() {
                        let name = document.querySelector('#name').value;
                        document.querySelector('#newName').innerHTML =
                        "hello, " + name;
        </script>
</head>
<body>
        <input id="name" type="text" name="Acer">
        <button onclick="helloName()">change name</button>
        <div id="newName">hello, body</div>
</body>
```

Q&A

Network Management of Mechanical Engineering in NCU



ABOUT US

Network Management of Mechanical Engineering in NCU



THANK YOU

Acer 🖂 s9303935522@gmail.com