

MSSV: 20520510 – Tên: Đặng Thái Hòa.

BÀI THỰC HÀNH 2

HTML Nâng cao: Nhúng và bảng

Bài 1: Trang tin tức Mozilla.

Trong phần tử <header>, thêm phần tử để nhúng hình ảnh phiên bản nhỏ của logo Firefox vào phần tiêu đề.

```
20520510.html X
LAB2 > 20520510.html > html > body > header > img
100 | <header>
101 |   <h1>Mozilla</h1>
102 |   <!-- insert <img> element, link to the small
103 |   | version of the Firefox logo -->
104 |   
105 | </header>
106 | <!--MSSV: 20520510 - DANG THAI HOA-->
107 | <main>
```

Ngay bên trong phần tử <article> (ngay bên dưới thẻ mở), nhúng nội dung video Youtube <https://www.youtube.com/watch?v=oJcNcvb1oIg>, sử dụng các công cụ Youtube thích hợp để tạo mã. Video phải rộng 400px.

```
20520510.html X
20520510.html > html > body > main > div.further-info
106 | <!--MSSV: 20520510 - DANG THAI HOA-->
107 | <main>
108 |   <article>
109 |     <!-- insert iframe from youtube -->
110 |     <iframe width="400" height="220" src="https://www.youtube.com/embed/oJcNcvb1oIg" title="video youtube" frameborder="0" allow="autoplay; fullscreen; geolocation; microphone; smoothscroll; picture-in-picture; web-share" />
111 |     <h2>Rocking the free web</h2>
112 |
113 |     <p>Mozilla are a global community of technologists, thinkers, and builders, working together to keep the Internet alive and growing.</p>
114 |
115 |     <p>Click on the images below to find more information about the cool stuff Mozilla does. <a href="https://www.flickr.com/photos/mozilla/">Flickr</a></p>
116 |   </article>
```

Trong phần tử <div> với tên class là “further-info” bạn sẽ thấy 4 phần tử <a> - mỗi phần tử liên kết tới một trang Mozilla liên quan. Để hoàn thành phần này, bạn cần thêm phần tử vào, và bên trong mỗi phần tử này bạn cần thêm các thuộc tính tương ứng gồm src, alt, srcset và sizes.

Yêu cầu khi chiều rộng của trình duyệt (viewport) từ 500px trở xuống phiên bản 120px sẽ được hiển thị, ngược lại sẽ là phiên bản 400px.

```
20520510.html X
20520510.html > html > body > main > div.further-info > a > img
117 <!--MSSV: 20520510 - DANG THAI HOA-->
118 <div class="further-info">
119 <!-- insert images with srcsets and sizes -->
120 <a href="https://www.mozilla.org/">
121 
127 </a>
```

```
20520510.html X
20520510.html > html > body > main > div.further-info > a > img
128 <a href="https://www.mozilla.org/en-US/firefox/new/">
129 
135 </a>
```

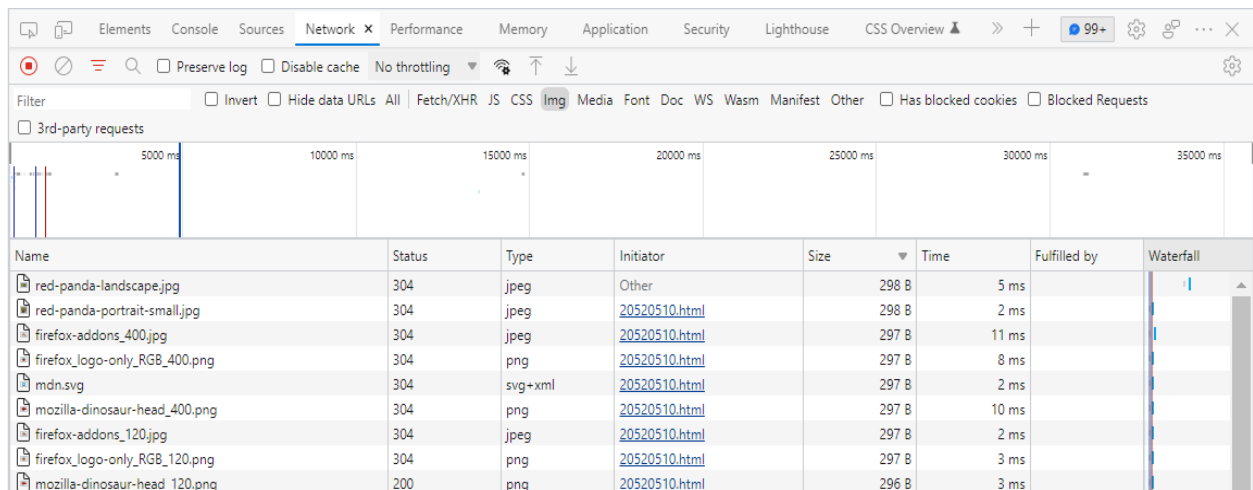
```
20520510.html X
20520510.html > html > body > main > div.further-info > a > img
136 <a href="https://addons.mozilla.org/">
137 
143 </a>
```

```
20520510.html X
20520510.html > html > body > main > div.further-info > a > img
143 </a>
144 <a href="https://developer.mozilla.org/en-US/">
145 
149 </a>
```

Bên trong phần tử <div> với class “red-panda”, ta cần chèn một phần tử <picture> để phục vụ việc hiển thị hình red-panda-portrait-small.jpg khi độ rộng màn hình (viewport) nhỏ hơn 600px, ngược lại thì hiển thị hình red-panda-landscape.jpg.

```
20520510.html X
20520510.html > html
152      <!--MSSV: 20520510 - DANG THAI HOA-->
153      <div class="red-panda">
154          <!-- insert picture element -->
155          <picture>
156              <source media="(max-width: 600px)" srcset="./originals/red-panda-portrait-small.jpg" />
157              
158          </picture>
159      </div>
160  </main>
161 </body>
162 </html>
```

Kiểm tra các mẫu srcset/sizes:



Name	Status	Type	Initiator	Size	Time	Fulfilled by	Waterfall
red-panda-landscape.jpg	304	jpeg	Other	298 B	5 ms		
red-panda-portrait-small.jpg	304	jpeg	20520510.html	298 B	2 ms		
firefox-addons_400.jpg	304	jpeg	20520510.html	297 B	11 ms		
firefox_logo-only_RGB_400.png	304	png	20520510.html	297 B	8 ms		
mdn.svg	304	svg+xml	20520510.html	297 B	2 ms		
mozilla-dinosaur-head_400.png	304	png	20520510.html	297 B	10 ms		
firefox-addons_120.jpg	304	jpeg	20520510.html	297 B	2 ms		
firefox_logo-only_RGB_120.png	304	png	20520510.html	297 B	3 ms		
mozilla-dinosaur-head_120.png	200	png	20520510.html	296 B	3 ms		

Kết quả trang web:

Mozilla



Rocking the free web

Mozilla are a global community of technologists, thinkers, and builders, working together to keep the Internet alive and accessible, so people worldwide can be informed contributors and creators of the Web. We believe this act of human collaboration across an open platform is essential to individual growth and our collective future.

Click on the images below to find more information about the cool stuff Mozilla does. [Red panda picture](#) by Mathias Appel.



Kết quả trang web khi thu nhỏ màn hình:

Mozilla



Rocking the free web

Mozilla are a global community of technologists, thinkers, and builders, working together to keep the Internet alive and accessible, so people worldwide can be informed contributors and creators of the Web. We believe this act of human collaboration across an open platform is essential to individual growth and our collective future.

Click on the images below to find more information about the cool stuff Mozilla does. [Red panda picture](#) by Mathias Appel.

stuff Mozilla does. [Red panda picture](#) by Mathias Appel.



Full code bài 1:

```
20520510.html X
20520510.html > html > body > main > article
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="utf-8">
5 <meta name="viewport" content="width=device-width">
6 <title>Mozilla splash page</title>
7 <link href="https://fonts.googleapis.com/css?family=Open+Sans:400,700" rel="stylesheet" type="text/css">
8 <style>...
97 </style>
98 </head>
99 <body>
100 <header>
101 <h1>Mozilla</h1>
102 <!-- insert <img> element, link to the small
103 | version of the Firefox logo -->
104 
105 </header>
106 <!--MSSV: 20520510 - DANG THAI HOA-->
107 <main>
108 <article>
109 <!-- insert iframe from youtube -->
110 <iframe width="400" height="220" src="https://www.youtube.com/embed/ojfcNcvbiolg" title="video youtube" frameborder="0" allow="ac
111 <h2>Rocking the free web</h2>
112
113 <p>Mozilla are a global community of technologists, thinkers, and builders, working together to keep the Internet alive and acce
114
115 <p>Click on the images below to find more information about the cool stuff Mozilla does. <a href="https://www.flickr.com/photos/
116 </article>
```

```
20520510.html X
20520510.html > html > body > main > article
117 <!--MSSV: 20520510 - DANG THAI HOA-->
118 <div class="further-info">
119 <!-- insert images with srcsets and sizes -->
120 <a href="https://www.mozilla.org/">
121 
127 </a>
128 <a href="https://www.mozilla.org/en-US/firefox/new/">
129 
135 </a>
136 <a href="https://addons.mozilla.org/">
137 
143 </a>
144 <a href="https://developer.mozilla.org/en-US/">
145 
149 </a>
150 <div class="clearfix"></div>
151 </div>
```

```

20520510.html X
20520510.html > html > body > main > article
152 <!--MSSV: 20520510 - DANG THAI HOA-->
153 <div class="red-panda">
154 <!-- insert picture element -->
155 <picture>
156 <source media="(max-width: 600px)" srcset="./originals/red-panda-portrait-small.jpg" />
157 
158 </picture>
159 </div>
160 </main>
161 </body>
162 </html>

```

Bài 2: Cấu trúc dữ liệu bảng.

Mở tập tin blank-template.html, bắt đầu tạo bảng bằng cách thêm vùng chứa table bên ngoài, thêm tiêu đề (header) bảng và phần thân (body) bảng. Bạn không cần chân bảng (footer) cho bài tập này.

Thêm phần đầu đề (caption) vào bảng.

```

20520510.html X
bai2 > 20520510.html > html > body > table
9 <!--MSSV: 20520510 - DANG THAI HOA-->
10 <body>
11 <h1>Planets data</h1>
12 <table>
13 <caption>Data about the planets of our solar system (Planetary facts taken from <a href=
14 > <colgroup>...
18 </colgroup>
19 <thead>...
33 </thead>
34 <tbody>...
148 </tbody>
149 </table>
150 </body>

```

Thêm dòng (row) cho phần tiêu đề bảng, chứa tất cả các cột tiêu đề.

```

20520510.html X
bai2 > 20520510.html > html > body > table > tbody > tr > td
19 <thead>
20 <tr>
21 <td colspan="2"></td>
22 <th scope="col">Name</th>
23 <th scope="col">Mass (10<sup>24</sup>kg)</th>
24 <th scope="col">Diameter (km)</th>
25 <th scope="col">Density (kg/m<sup>3</sup></th>
26 <th scope="col">Gravity (m/s<sup>2</sup></th>
27 <th scope="col">Length of day (hours)</th>
28 <th scope="col">Distance from Sun (10<sup>6</sup>km)</th>
29 <th scope="col">Mean temperature (°C)</th>
30 <th scope="col">Number of moons</th>
31 <th scope="col">Notes</th>
32 </tr>
33 </thead>
34 <!-- 20520510 - DANG THAI HOA-->

```


Tạo tất cả các dòng còn lại vào bảng, nhớ hãy biến tất cả các tiêu đề theo dòng thành tiêu đề dạng ngữ nghĩa.

Đảm bảo tất cả dữ liệu đặt đúng vị trí ô của nó, mỗi hàng dữ liệu hành tinh được hiển thị bên cạnh hành tinh liên kết với nó.

Thêm các thuộc tính để làm cho các dòng và cột tiêu đề được liên kết rõ ràng với các hàng (rows), cột (columns) hoặc nhóm hàng (rowgroups) mà chúng đang đóng vai trò tiêu đề.

```
20520510.html X
bai2 > 20520510.html > html > body > table > tbody > tr > td
34      <!-- 20520510 - DANG THAI HOA-->
35      <tbody>
36        <tr>
37          <th rowspan="4" colspan="2" scope="rowgroup">Terrestrial planets</th>
38          <th scope="row">Mercury</th>
39          <td>0.330</td>
40          <td>4,879</td>
41          <td>5427</td>
42          <td>3.7</td>
43          <td>4222.6</td>
44          <td>57.9</td>
45          <td>167</td>
46          <td>0</td>
47          <td>Closest to the Sun</td>
48        </tr>
49        <tr>
50          <th scope="row">Venus</th>
51          <td>4.87</td>
52          <td>12,104</td>
53          <td>5243</td>
54          <td>8.9</td>
55          <td>2802.0</td>
56          <td>108.2</td>
57          <td>464</td>
58          <td>0</td>
59          <td></td>
60        </tr>
61        <tr>
62          <th scope="row">Earth</th>
63          <td>5.97</td>
64          <td>12,756</td>
65          <td>5514</td>
66          <td>9.8</td>
67          <td>24.0</td>
68          <td>149.6</td>
69          <td>15</td>
70          <td>1</td>
71          <td>Our world</td>
72        </tr>
```

```
20520510.html X
bai2 > 20520510.html > html > body > table > tbody > tr > td
72      </tr>
73      <tr>
74          <th scope="row">Mars</th>
75          <td>0.642</td>
76          <td>6,792</td>
77          <td>3933</td>
78          <td>3.7</td>
79          <td>24.7</td>
80          <td>227.9</td>
81          <td>-65</td>
82          <td>2</td>
83          <td>The red planet</td>
84      </tr>
85      <tr>
86          <th rowspan="4" scope="rowgroup">Jovian planets</th>
87          <th rowspan="2" scope="rowgroup">Gas giants</th>
88          <th scope="row">Jupiter</th>
89          <td>1898</td>
90          <td>142,984</td>
91          <td>1326</td>
92          <td>23.1</td>
93          <td>9.9</td>
94          <td>778.6</td>
95          <td>-110</td>
96          <td>67</td>
97          <td>The largest planet</td>
98      </tr>
99      <tr>
100         <th scope="row">Saturn</th>
101         <td>568</td>
102         <td>120,536</td>
103         <td>687</td>
104         <td>9.0</td>
105         <td>10.7</td>
106         <td>1433.5</td>
107         <td>-140</td>
108         <td>62</td>
109         <td></td>
110     </tr>
```


Kết quả:

Planets data

Data about the planets of our solar system (Planetary facts taken from [Nasa's Planetary Fact Sheet - Metric](#)).

		Name	Mass (10 ²⁴ kg)	Diameter (km)	Density (kg/m ³)	Gravity (m/s ²)	Length of day (hours)	Distance from Sun (10 ⁶ km)	Mean temperature (°C)	Number of moons	Notes
Terrestrial planets		Mercury	0.330	4,879	5427	3.7	4222.6	57.9	167	0	Closest to the Sun
		Venus	4.87	12,104	5243	8.9	2802.0	108.2	464	0	
		Earth	5.97	12,756	5514	9.8	24.0	149.6	15	1	Our world
		Mars	0.642	6,792	3933	3.7	24.7	227.9	-65	2	The red planet
Jovian planets	Gas giants	Jupiter	1898	142,984	1326	23.1	9.9	778.6	-110	67	The largest planet
		Saturn	568	120,536	687	9.0	10.7	1433.5	-140	62	
	Ice giants	Uranus	86.8	51,118	1271	8.7	17.2	2872.5	-195	27	
		Neptune	102	49,528	1638	11.0	16.1	4495.1	-200	14	
Dwarf planets		Pluto	0.0146	2,370	2095	0.7	153.3	5906.4	-225	5	Declassified as a planet in 2006, but this remains controversial

Full code bài 2:

```
20520510.html ✕
bai2 > 20520510.html > html > body > table > thead > tr > th
1  <!DOCTYPE html>
2  <html lang="en">
3  >
4  <head>...
5  </head>
6  <!--MSSV: 20520510 - DANG THAI HOA-->
7  <body>
8  <h1>Planets data</h1>
9  <table>
10 <caption>Data about the planets of our solar system (Planetary facts taken from <a href="https://nss
11 <colgroup>
12 <col span="2">
13 <col style="border: 3px solid black">
14 <col span="9">
15 </colgroup>
16 <thead>
17 <tr>
18 <td colspan="2"></td>
19 <th scope="col">Name</th>
20 <th scope="col">Mass (10<sup>24</sup>kg)</th>
21 <th scope="col">Diameter (km)</th>
22 <th scope="col">Density (kg/m<sup>3</sup>)</th>
23 <th scope="col">Gravity (m/s<sup>2</sup>)</th>
24 <th scope="col">Length of day (hours)</th>
25 <th scope="col">Distance from Sun (10<sup>6</sup>km)</th>
26 <th scope="col">Mean temperature (°C)</th>
27 <th scope="col">Number of moons</th>
28 <th scope="col">Notes</th>
29 </tr>
30 </thead>
```

```
20520510.html X
bai2 > 20520510.html > html > body > table > thead > tr > th
32      </tr>
33      </thead>
34      <!-- 20520510 - DANG THAI HOA-->
35      <tbody>
36      <tr>
37          <th rowspan="4" colspan="2" scope="rowgroup">Terrestrial planets</th>
38          <th scope="row">Mercury</th>
39          <td>0.330</td>
40          <td>4,879</td>
41          <td>5427</td>
42          <td>3.7</td>
43          <td>4222.6</td>
44          <td>57.9</td>
45          <td>167</td>
46          <td>0</td>
47          <td>Closest to the Sun</td>
48      </tr>
49      <tr>
50          <th scope="row">Venus</th>
51          <td>4.87</td>
52          <td>12,104</td>
53          <td>5243</td>
54          <td>8.9</td>
55          <td>2802.0</td>
56          <td>108.2</td>
57          <td>464</td>
58          <td>0</td>
59          <td></td>
60      </tr>
61      <tr>
62          <th scope="row">Earth</th>
63          <td>5.97</td>
64          <td>12,756</td>
65          <td>5514</td>
66          <td>9.8</td>
67          <td>24.0</td>
68          <td>149.6</td>
69          <td>15</td>
70          <td>1</td>
71          <td>Our world</td>
72      </tr>
```



```
20520510.html X
bai2 > 20520510.html > html > body > table > tbody > tr
72 </tr>
73 <tr>
74 <th scope="row">Mars</th>
75 <td>0.642</td>
76 <td>6,792</td>
77 <td>3933</td>
78 <td>3.7</td>
79 <td>24.7</td>
80 <td>227.9</td>
81 <td>-65</td>
82 <td>2</td>
83 <td>The red planet</td>
84 </tr>
85 <tr>
86 <th rowspan="4" scope="rowgroup">Jovian planets</th>
87 <th rowspan="2" scope="rowgroup">Gas giants</th>
88 <th scope="row">Jupiter</th>
89 <td>1898</td>
90 <td>142,984</td>
91 <td>1326</td>
92 <td>23.1</td>
93 <td>9.9</td>
94 <td>778.6</td>
95 <td>-110</td>
96 <td>67</td>
97 <td>The largest planet</td>
98 </tr>
99 <tr>
100 <th scope="row">Saturn</th>
101 <td>568</td>
102 <td>120,536</td>
103 <td>687</td>
104 <td>9.0</td>
105 <td>10.7</td>
106 <td>1433.5</td>
107 <td>-140</td>
108 <td>62</td>
109 <td></td>
110 </tr>
```

```

20520510.html X
bai2 > 20520510.html > html > body > table > tbody > tr
110 </tr>
111 <tr>
112 <th rowspan="2" scope="rowgroup">Ice giants</th>
113 <th scope="row">Uranus</th>
114 <td>86.8</td>
115 <td>51,118</td>
116 <td>1271</td>
117 <td>8.7</td>
118 <td>17.2</td>
119 <td>2872.5</td>
120 <td>-195</td>
121 <td>27</td>
122 <td></td>
123 </tr>
124 <tr>
125 <th scope="row">Neptune</th>
126 <td>102</td>
127 <td>49,528</td>
128 <td>1638</td>
129 <td>11.0</td>
130 <td>16.1</td>
131 <td>4495.1</td>
132 <td>-200</td>
133 <td>14</td>
134 <td></td>
135 </tr>
136 <tr>
137 <th colspan="2" scope="row">Dwarf planets</th>
138 <th scope="row">Pluto</th>
139 <td>0.0146</td>
140 <td>2,370</td>
141 <td>2095</td>
142 <td>0.7</td>
143 <td>153.3</td>
144 <td>5906.4</td>
145 <td>-225</td>
146 <td>5</td>
147 <td>Declassified as a planet in 2006, but this <a href="https://www.usatoday.com/story/tech/2
148 </tr>
149 </tbody>
150 </table>
151 </body>
152 </html>

```