

*Web Design*

---

# JavaScript (3)

Edgar Chia-Han Lin  
Asia University

---

---

# Outline

---

- ❖ Select multiple objects
- ❖ For Loop

# getElementsByName()

- ❖ The getElementsByName() method returns a collection of all elements in the document with the specified tag name, as a NodeList object.
- ❖ The NodeList object represents a collection of nodes. The nodes can be accessed by index numbers. The index starts at 0.
  - ❖ Tip: The parameter value "\*" returns all elements in the document.
  - ❖ Tip: You can use the **length** property of the NodeList object to determine the number of elements with the specified tag name, then you can loop through all elements and extract the info you want.

# Practice 9

Welcome to my web page



# Practice 9

```
<!DOCTYPE html>
<html>
<head>
    <title>PhotoAlbum</title>
    <script>
        function showphoto(currentimage){
            var showimage=document.getElementById("show");
            showimage.src=currentimage.src;
        }
    </script>
</head>
<body>
    <h1>Welcome to my web page</h1>
    
    
    
    
    
    
    <br>
    <img src="" id="show" width=600 px>
</body>
</html>
```

# Practice 9.1

Welcome to my web page



# Practice 9.1

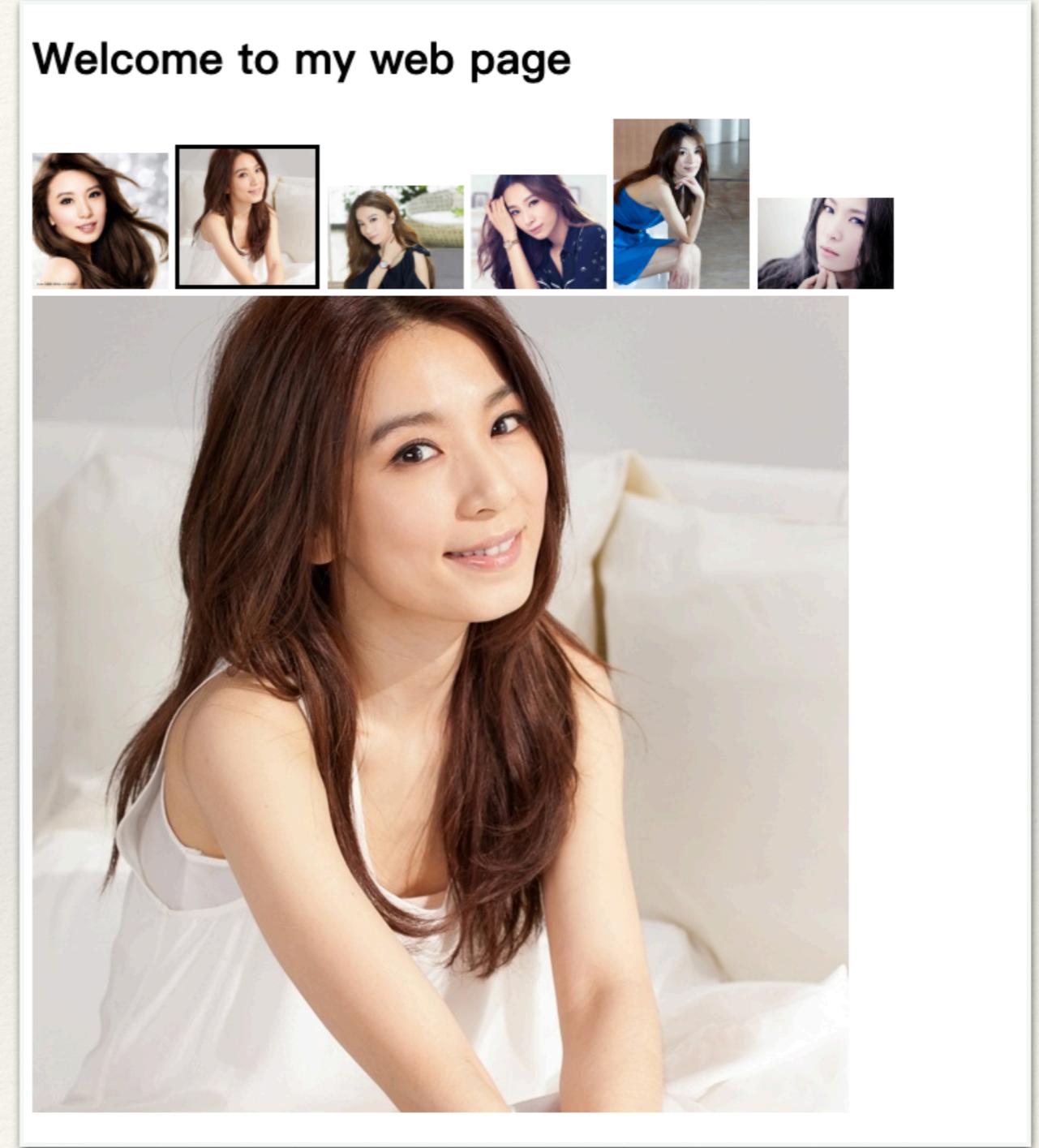
```
<script>
    function showphoto(currentimage){
        var showimage=document.getElementById("show");
        showimage.src=currentimage.src;

        var allimages=document.getElementsByTagName("img");
        for (var i=0; i<allimages.length;i++)
            allimages[i].style.borderWidth = "none";

        currentimage.style.borderWidth = "solid";
        currentimage.style.borderColor = "medium";
    }
</script>
```

# Practice 9.2

- ❖ 滑鼠游標經過切換影像
- ❖ onmouseover 事件



```
<!DOCTYPE html>
<html>
<head>
    <title>PhotoAlbum</title>
    <script>
        function showphoto(currentimage){
            var showimage=document.getElementById("show");
            showimage.src=currentimage.src;

            var allimages=document.getElementsByTagName("img");
            for (var i=0; i<allimages.length;i++)
                allimages[i].style.borderStyle = "none";

            currentimage.style.borderWidth = "medium";
            currentimage.style.borderColor = "solid";
        }
    </script>
</head>
<body>
    <h1>Welcome to my web page</h1>
    
    
    
    
    
    
    <br>
    <img src="" id="show" width=600 px>
</body>
</html>
```

# Practice 9.3

- ❖ 自動播放影像
- ❖ setInterval(func, interval)
  - ❖ interval: ms 為單位

Welcome to my web page



```
<!DOCTYPE html>
<html>
<head>
    <title>PhotoAlbum</title>
    <script>
        var i = 0;
        function showphoto(){
            document.getElementById("show").src = "images/hebe" + i + ".jpg";
            if (i == 5)
                i = 0;
            else
                i++;
        }
    </script>
</head>
<body>
    <h1>Welcome to my web page</h1>
    
    
    
    
    
    
    <br>
    <img src="" id="show" width=600 px>
    <script>
        var test=setInterval(showphoto,2000);
    </script>
</body>
</html>
```

# Practice 9.4

Welcome to my web page

Faster Slower



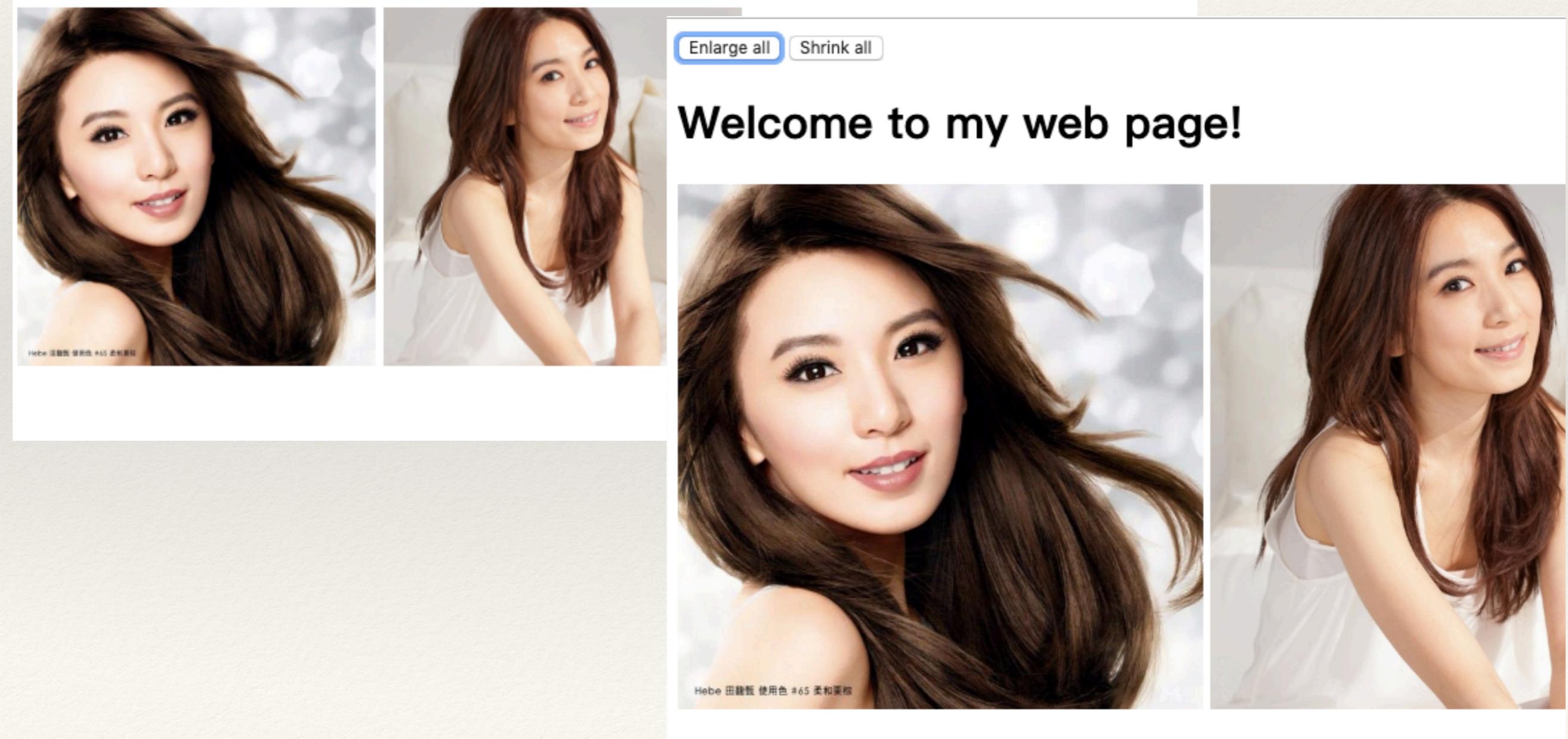
- ❖ 變更播放速度
- ❖ 修改 interval 值

```
<script>
    var i = 0;
    var timeinterval = 2000;
    function showphoto(){
        document.getElementById("show").src = "images/hebe" + i + ".jpg";
        if (i == 5)
            i = 0;
        else
            i++;
    }
    function faster()
    {
        timeinterval *= 0.5;
        document.getElementById('showtext').innerHTML = timeinterval;
        test=setInterval(showphoto,timeinterval);
    }
    function slower()
    {
        timeinterval *= 2;
        document.getElementById('showtext').innerHTML = timeinterval;
        test=setInterval(showphoto,timeinterval);
    }
</script>
</head>
<body>
    <h1>Welcome to my web page</h1>
    <button onClick="faster();">Faster</button>
    <button onClick="slower();">Slower</button>
    <h3 id="showtext"></h3>
    <br>
    <img src="" id="show" width=600 px>
    <script>
        var test=setInterval(showphoto,timeinterval);
    </script>
</body>
```

# Practice 9.5

[Enlarge all](#) [Shrink all](#)

**Welcome to my web page!**



```
<!DOCTYPE html>
<html>
<head>
    <title>Ex9.5</title>
    <script>
        function enlarge(){
            var myimages = document.getElementsByTagName("img");
            for (var i=0; i<myimages.length; i++)
                myimages[i].width = myimages[i].width*1.5;
        }

        function shrink(){
            var myimages = document.getElementsByTagName("img");
            for (var i=0; i<myimages.length; i++)
                myimages[i].width *= 0.5;
            //myimages[i] = myimages[i]*0.5;
        }
    </script>

</head>
<body>
<button onclick="enlarge();;">Enlarge all</button>
<button onclick="shrink();">Shrink all</button>

<h1>Welcome to my web page!</h1>



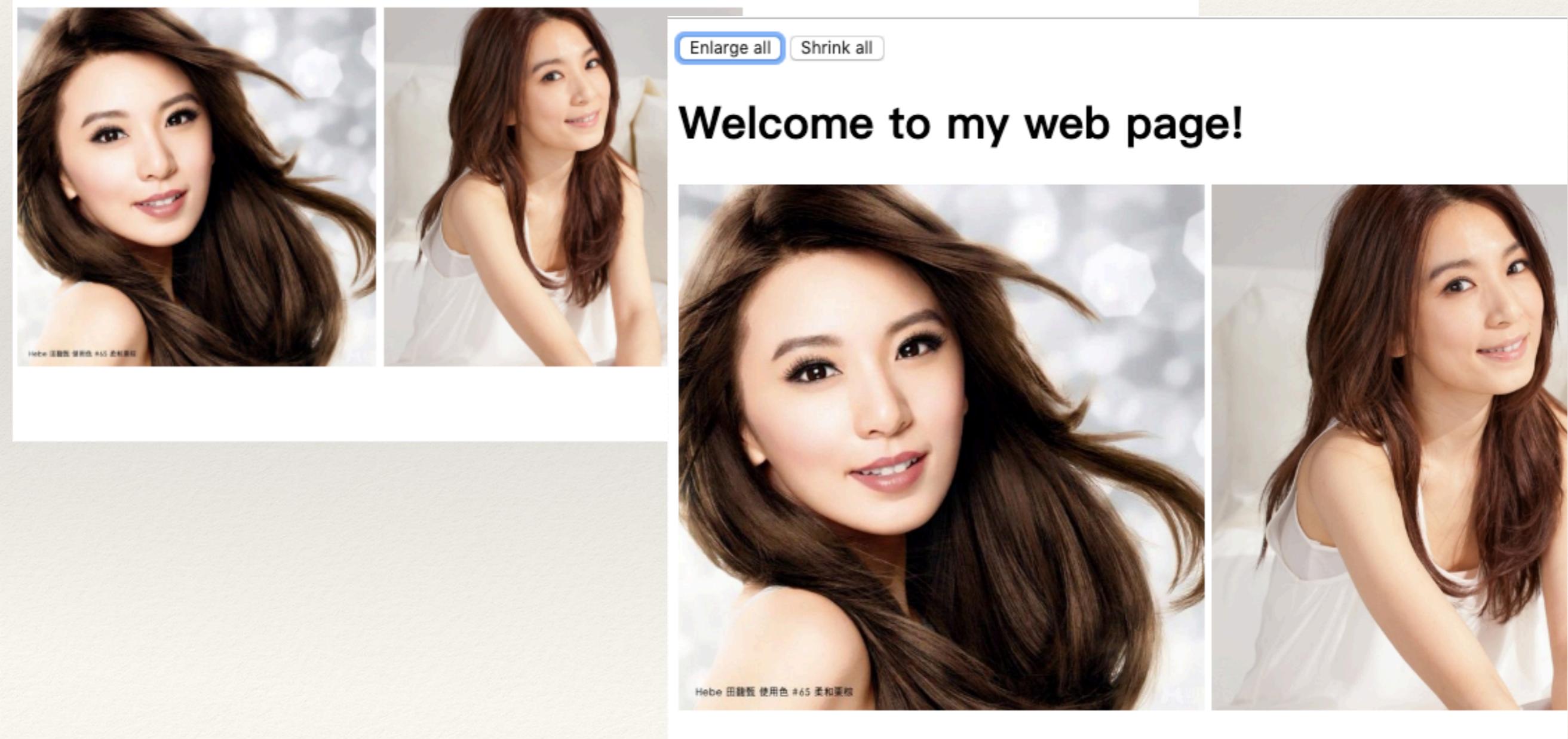


</body>
</html>
```

# Practice 9.6

[Enlarge all](#) [Shrink all](#)

**Welcome to my web page!**



```
<!DOCTYPE html>
<html>
<head>
    <title>Javascript</title>
    <script>
        function resize_allimage(image_ratio){

            var myimages = document.getElementsByTagName("img");

            if (image_ratio > 0)
                var ratio=1.5;
            else
                var ratio=0.5;

            for (var i=0; i<myimages.length; i++)
                myimages[i].width = myimages[i].width*ratio;
        }
    </script>

</head>
<body>
<button onclick="resize_allimage(1);">Enlarge all</button>
<button onclick="resize_allimage(0);">Shrink all</button>

<h1>Welcome to my web page!</h1>





</body>
</html>
```

# Practice 9.7

**Welcome to my web page!**



```
<!DOCTYPE html>
<html>
<head>
    <title>Ex9.7</title>
    <script>
        function bordered(){
            var myimages = document.getElementsByTagName("img");
            for (var i=0; i<myimages.length; i++){
                myimages[i].style.borderStyle = "solid";
                myimages[i].style.borderWidth = "medium";
            }
        }

        function unbordered(){
            var myimages = document.getElementsByTagName("img");
            for (var i=0; i<myimages.length; i++)
                myimages[i].style.borderStyle = "none";
        }
    </script>

</head>
<body>
<button onclick="bordered()">Bordered</button>
<button onclick="unbordered()">UnBordered</button>

<h1>Welcome to my web page!</h1>





</body>
</html>
```

# Practice 9.8

Bordered  UnBordered

Welcome to my web page!



```
<!DOCTYPE html>
<html>
<head>
    <title>Ex9.7</title>
    <script>
        function bordered(flag){
            var myimages = document.getElementsByTagName("img");
            if (flag==1)
                for (var i=0; i<myimages.length; i++){
                    myimages[i].style.borderStyle = "solid";
                    myimages[i].style.borderWidth = "medium";
                }
            else
                for (var i=0; i<myimages.length; i++)
                    myimages[i].style.borderStyle = "none";
        }
    </script>

</head>
<body>
<button onclick="bordered(1);">Bordered</button>
<button onclick="bordered(0)">UnBordered</button>

<h1>Welcome to my web page!</h1>





</body>
</html>
```

---

# Conclusions

---

- ❖ The use of `getElementsByName()`
- ❖ Array
- ❖ For Loop