JavaScript Programming Basic Skills (3)

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Object & Event Control

- Dynamic presentation & Interaction
  - JavaScript meet CSS
  - Image object & Animation
  - Mouse
  - Keyboard
  - Screen
  - Applications

Objects & Events

物件 (Object)	事件 (Event)	說明 (Description)
Window	onLoad	載入網頁時 (the page or an image has finished loading)
	onUnload	網頁關閉 (someone leaves this page)
Link	onClick	滑鼠按下超連結時 (clicking a link or form boxes)
	onMouseOver	滑鼠移到超連結上方時 (the mouse passes by a link)
	onMouseOut	滑鼠移開超連結上方時 (the mouse is moved out of a link)
Form	onSubmit	表單送出資料時 (the user submits a form)
Form element	onClick	滑鼠點擊物件時(an object gets clicked)
	onFocus	取得Focus時 (the cursor is placed on or within a specific form element)
	onBlur	喪失Focus時 (the cursor is moved out of a form element)
	onChange	欄位內容被修改時 (a form element is selected and changed)
	onSelect	文字被選取時 (text is selected within a text field or text area)

Dynamic Presentation

- Utilize CSS and mouse events

Mouse Event	Examples
onMouseOver	`onMouseOver="a()"`
onMouseOut	`onMouseOut="b()"`

- [Ex] java5-0-css-dynamic-1.htm
- [Ex] java5-0-css-dynamic-2.htm

Image Object & Animation

- Utilize methods of Window Object

Method	Examples
setTimeout(statement,time)	timer1=setTimeout("moonMove()",300);
clearTimeout(timeobject)	clearTimeout(timer1);
setInterval(statement,time)	timer2=setInterval("moonCircle()",500);
clearInterval(timeobject)	clearInterval(timer2);

- **[Ex]java5-1-image-move.htm**
- **[Ex]java5-2-image-circle.htm**

Mouse Control

Mouse Event	Examples
onMouseMove	onMouseMove="mouse(event)"
onMouseOver	onMouseOver="mouse(event)"
onMouseOut	onMouseOut="mouse(event)"
onMouseDown	onMouseDown="mouse(event)"
onMouseUp	onMouseUp="mouse(event)"
onMouseClick	onMouseClick="mouse(event)"
onMouseDblClick	onMouseDblClick="mouse(event)"

- **[Ex]java5-4-mouse-control.htm**

Keyboard Control

Keyboard Event	Examples
onKeyPress	onKeyPress="key(event)";
onKeyDown	onKeyDown="key(event)";
onKeyUp	onKeyUp="key(event)";

- **[Ex]java5-5-keyboard-control.htm**

Screen Control

- window.onscroll
  - Specifies the function to be called when the window is scrolled.
  - **[Ex]java5-6-window-onscroll.htm**

Applications

- Online image gallery
  - **[Ex]java5-7-image-gallery.htm**
  - **[Ex]java5-8-password-confirm.htm**

Exercise: Online image gallery