THE BROWSER OBJECT MODEL (BOM)

BOM vs. DOM

Web browser controlled through BOM.

Web page controlled through DOM.
BOM Object Hierarchy

Root of the Document Object Model

JavaScript Window Object

Window Object Reference:
http://www.javascriptkit.com/jsref/window.shtml
Cross-browser problems and curbed techniques

Window dimensions:
http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-1.htm

Window opening:
http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-2.htm
http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-3.htm

Window Events

Window event handlers
http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-4.htm
Opening a new browser window

`window.open (p1, [p2, p3, p4])`

- **p1:**
- **p2:** target. Blank (or new name) opens new window. Existing window or frame, opened there. [http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-5.htm](http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-5.htm)
- **p3:** controls window attributes using attribute/value pairs in a single string. [http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-6.htm](http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-6.htm)
- **p4:**

Setting timeouts

`setTimeout(p1, p2)`

- **p1:** string specifying function or a function definition
- **p2:** [http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-7.htm](http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-7.htm)

`clearTimeout(timeoutID)`

[http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-9.htm](http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-9.htm)
Browser dialogs

Modal:

Non-modal:

http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-10.htm

Window.navigator

Browser detection and information

http://www.javascriptkit.com/jsref/navigator.shtml
Window.location

Shared property of both window and document, allowing reading/manipulating elements of current document.

http://www/javascriptkit.com/jsref/location.shtml
http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-11.htm

Location manipulation

http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-12.htm

http://einstein.etsu.edu/~pittares/CSCI3110/examples/7-13.htm
location.reload() or location.reload(true)

Window.history

Allows moving through URLs in browser history

http://www/javascriptkit.com/jsref/history.shtml
Window.screen

Allows detection of information related to the user's screen.

http://www.javascriptkit.com/jsref/screen.shtml

Recommended BOM Resource

http://javascript.about.com/od/browserobjectmodel/Browser_Object_Model.htm
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