Client-side web scripting

* Allows programs (i.e. scripts) to be downloaded from a web server and executed in the client environment (e.g. browser)
* Common client-side scripting technologies
* JavaScript, ECMAScript, Jscript
* VBScript, ActionScript
* Java Applets, ActiveX Controls, Flash Animations, Microsoft Silverlight, Adobe Integrated Runtime (Adobe AIR)
* Common uses:
* Browser support
* No scripting support
* Scripting disabled
* Plugin availability
* Version incompatibilities, non-standard implementations
* Capabilities restrictions
* Scripting languages are not for general-purpose programming
* E.g. javascript is restricted by the sandbox execution model and the same origin policy
* Security risks
* Browser implementation defects (e.g. buffer overflows)
* E.g. javascript, cross-site scripting (XSS) or cross-site request forgery (XSRF) issues
* Malicious ActiveX xontrols