15.3 Lesson Summary - Plotly and Beyond

Plotly offers a wide range of charting options including the ability to create candlestick plots. JavaScript supports switch statements for a different flavor of if/then style comparison. The resulting webpages you create with these tools can be hosted for free in a GitHub Pages website.

Concept: **Switch** statements in JavaScript are ideal for deciding between a number of different options. Switch statements are especially well suited for when you have numerous possible values you'd like to check for equality. For example:

*switch(variableToTest) {*

*case "first\_case":*

*message = "I am the first case";*

*break;*

*case "second\_case":*

*message = "I am a the second case";*

*break;*

*case "third\_case":*

*message = " I am the third case";*

*break;*

*default:*

*message = "Neither the first\_case, second\_case, or third\_case occured";*

*}*

* Activity: 01-Ins\_Switch, 02-Stu\_Switch
* Suppl link: <https://www.w3schools.com/js/js_switch.asp>

Concept: You can create candlestick plots with Plotly to summarize all of the fundamental figures that describe a series of prices in a single plot. For example:

*var trace = {*

*type: "candlestick",*

*x: dates,*

*high: highPrices,*

*low: lowPrices,*

*open: openingPrices,*

*close: closingPrices*

*};*

*var layout = {*

*height: 600,*

*width: 800*

*};*

*Plotly.newPlot("plot", [data], layout);*

* Activity: 04-Evr\_Stocks\_CandleStick, 05-Stu\_Stocks\_Report

Concept: To stop websites from reading your private files JavaScript is prevented from accessing your local files. This prevents you from testing your JavaScript with local data files unless you setup a local server.

* Activity: 06-Ins\_Python\_HTTP\_Server

Concept: GitHub pages provides an excellent, free, option to host your own website as long as you don't need any server side or database components for your site.

* Activity: 07-Ins\_Github\_Pages, 08-Stu\_Github\_Pages
* Suppl link: <https://pages.github.com/>