README  
  
This document should serve as a guide to future developers of this dashboard.

Steps to update **all-buoy-data.csv** with new data

* Clean Data
  + Non MLO buoy data sometimes has a non zero value in the “seconds” time field that prevents a proper join in Tableau. I found it was easiest to do a find/replace all using this regex:   
    **find:** *:00:[0-9][0-9]***replace:** *:00:00*This worked in LibreOffice. Your milage may vary in Microsoft Office.
  + Non MLO buoy temperature depth data should be converted from C to F. Use a formula online, and use Ctrl+D to apply said formula to all cells.
* Join Data in Tableau
  + Load MLO buoy data and “Other buoy data” excel sheet into Tableau.
  + Join on the date fields
* Export Data from Tableau
  + “Data” in top menu option, “Export Data to CSV”
* Sort Data in Excel
  + Load full data spreadsheet in Excel. Sort by the Date/Time column.
* Update column headers
  + All temp depth readings and dissolved oxygen depth reading columns have been renamed. Since data is referenced in the script file by column name, these column names need to match what is expected in **all-buoy-data.csv.**
  + If new temp depth readings or dissolved oxygen depth reading *columns* are added, the script file itself will need to be updated to include these.
* Add Year column
  + For ease of filtering and performance, I added a year column to the data. This is easy to do if the data is sorted.
* Convert Celsius To Fahrenheit
  + Create a new column and apply a formula to all celsius values.
* Export Data from Excel
  + Save as CSV.
  + Replace all-buoy-data.csv