**Background**

The ambitious end aim for the project is to create software which helps one to search for race results for any individual from internet in addition to search & save whole race results as .csv files. Idea originated when author’s race results from year 2013 were no longer online and thus nowhere to be found. So should this project succeed in it’s original aim, it would have real world use. While making the software I managed to produce few real iron distace triathlon race results as .csv files which you see with the project.

However, due to developer based (’:D’) difficulties in making reliable enough webscraper we have have a demo version which has following features. Also test .csv supplied so one can test the software.

ANALYTICS

1.Analyze given .csv file if the file is in certain format. We get:  
  
1.1 % of female athletes

1.2 min and max finish times

1.3 25%,50% and 75% fastest times.

1.4 mean & median times

1.5 Pearson & Spearman correlations

1.6 Fastest & slowest legs. This shows full athlete info on for example fastest swimmer.

VISUALS

Multiple graphs, of which most done because of learning purposes only. Mean finish time by age group gives interesting info as well as fastest times by age group. Should you check these out, please do take note how fast fastest 50-59 age groupers are. First actual rise is at 55-59. Context: sub10 hour time is such that extremely fit amateurs might find themselves chasing it with great determination but never make it.

AGE GROUP ANALYTICS

Detailed analytics for age groups as there are quite a bit of difference speedwise if we are discussing AG35-39 for men or AG60-64 for women. Program has an easter egg print if certain athlete has every leg as a AG fastest leg because usually this is not feasible if more than 5 people racing.

MERGE FILES

merge files into larger database. Not sure if has any actually useful implication besides learing purposes but is there.