Dota 2 Data

Games per week

We'll need to conver timestamps to dates and dates to week numbers

```
let toDateTime (timestamp:int) =
                   let start = DateTime(1970,1,1,0,0,0,DateTimeKind.Utc)
  2:
                   start.AddSeconds(float timestamp).ToLocalTime()
  3:
  4:
             let toWeekNumber (d:DateTime) =
                  {\tt CultureInfo.CurrentCulture.DateTimeFormat.Calendar.GetWeekOfYear(CultureInfo.CurrentCulture.DateTimeFormat.Calendar.GetWeekOfYear(CultureInfo.CurrentCulture.DateTimeFormat.Calendar.GetWeekOfYear(CultureInfo.CurrentCulture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.GetWeekOfYear(Culture.DateTimeFormat.Calendar.GetWeekOfYear(Culture.DateTimeFormat.GetWeekOfYear(Cultu
  6:
  7:
                        CalendarWeekRule.FirstFourDayWeek,
  8:
                        DayOfWeek.Monday)
 9:
10:
             type OpenDotaPlayerData = JsonProvider<"https://api.opendota.com/api/players/71050296/matche
11:
12:
13:
             let dateToYearWeek (m:OpenDotaPlayerData.Root) =
                  let d = m.StartTime |> toDateTime
14:
                   (d.Year, toWeekNumber d)
15:
                     Make a series out of the data
  1:
             let matchesToData (data:OpenDotaPlayerData.Root[]) =
                                         |> Array.map dateToYearWeek
  3:
                                         > Array.countBy id
                                         \rightarrow Array.where (fun ((y,_),_) -> (y = 2019))
                                         |> Array.map (fun ((y,w),c) -> (sprintf "%i/%i" y w , c))
  7:
                                         > Array.sortBy fst
  8:
                                         > Array.toList
                     Load the data, and transform it to have just number of games per "year/week"
             let j2ghz = OpenDotaPlayerData.Load "https://api.opendota.com/api/players/71050296/matches"
             let artic = OpenDotaPlayerData.Load "https://api.opendota.com/api/players/101483335/matches
             let simik = OpenDotaPlayerData.Load "https://api.opendota.com/api/players/94313396/matches"
             let data = [artic;j2ghz;simik]
```

And in a chart:

```
data
              > Chart.Area
              |> Chart.WithOptions (Options( isStacked = true ))
              |> Chart.WithLabels [ "ArticCz"; "J2ghz"; "ssimik"]
              > Chart.WithLegend true
                         <div class="fslab-html-output"><script type="text/javascript">= google.charts.setOnLoadCallback(draw0
              function drawChart() if ("") google.visualization.mapsApiKey = ""
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              id="d1d94c45-11f3-4b59-9c55-5da6c9521b68" style="width: 800px; height: 450px;"></div></div>
              Win rate compared to match length
              OpenDotaPlayerData.Load "https://api.opendota.com/api/players/71050296/matches"
               |> Array.map (fun m -> m.Duration,if m.Deaths > 0 then (m.Kills |> double) / (m.Deaths|> dou
3.
               > Chart.Scatter
                         <div class="fslab-html-output"><script type="text/javascript"> google.charts.setOnLoadCallback(draw0)
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