

Pensieve header: Deciphering the data on Assaf's GPS.

```
In[*]:= SetDirectory["C:\\drorbn\\AcademicPensieve\\2018-05"];
xml = Import["TrackAssaf.xml"];
events = Cases[xml, XMLElement["Trackpoint", data___] :> Event @@
  Cases[{data}, XMLElement[name : ("Time" | "LatitudeDegrees" | "LongitudeDegrees" |
    "DistanceMeters" | "AltitudeMeters"), {}, val_] :> name -> val[[1], ∞], ∞];
events[[
  1]]
Out[*]:= Event[Time -> 2018-05-08T20:27:55Z, LatitudeDegrees -> 43.676615,
  LongitudeDegrees -> -79.44266, AltitudeMeters -> 34, DistanceMeters -> 0]

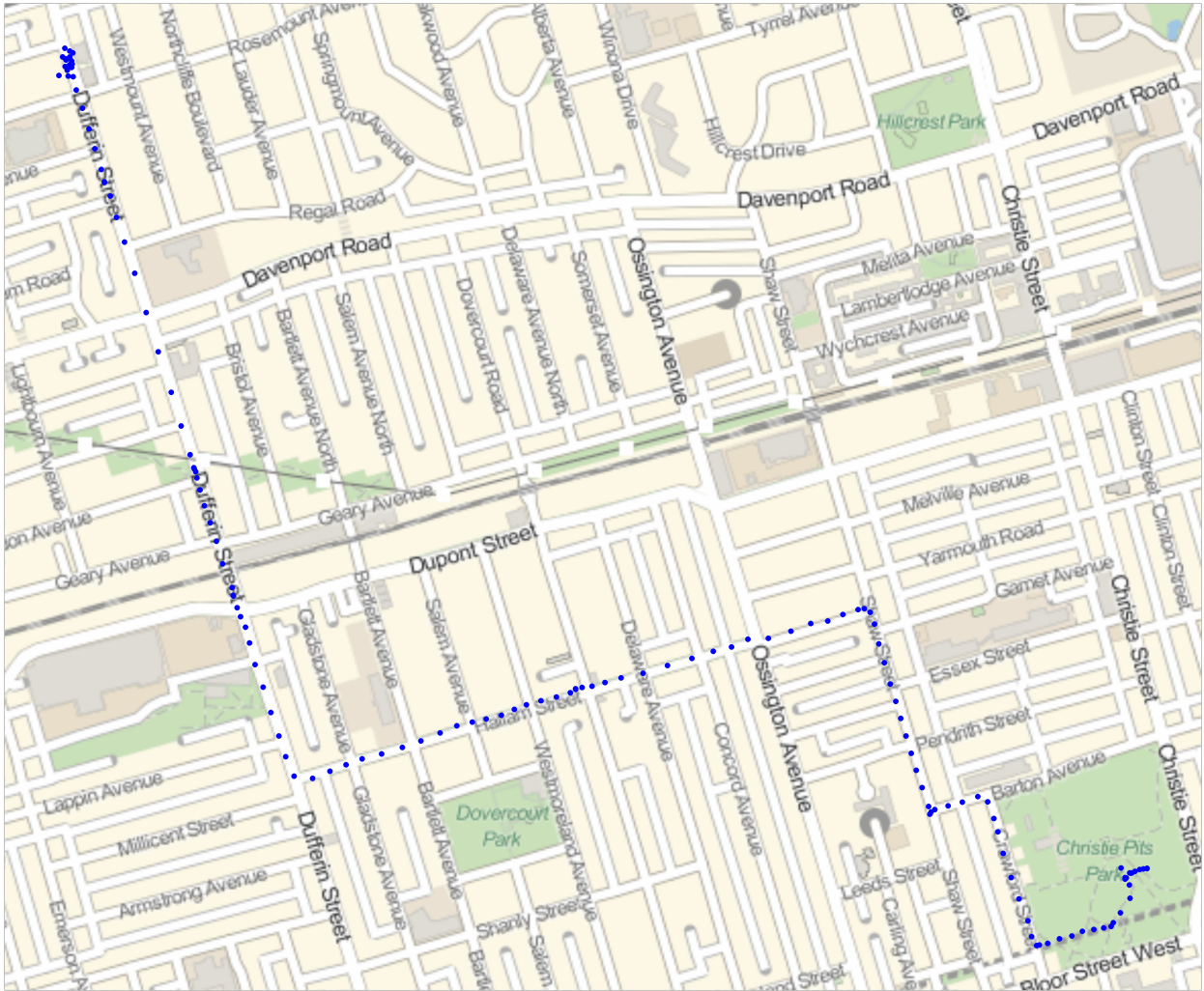
In[*]:= Export["TrackAssaf.csv", events /.
  Event[rules___] :> {"Time", "LatitudeDegrees", "LongitudeDegrees"} /. {rules}]
Out[*]:= TrackAssaf.csv
```

In[ ]:= `GeoGraphics[GeoPath[events /. Event[rules___] >>  
GeoPosition[ToExpression /@ ({"LatitudeDegrees", "LongitudeDegrees"} /. {rules})]]]`

Out[ ]:=



```
In[ ]:= GeoGraphics[{Blue, events /. Event[rules___] => Point@
GeoPosition[ToExpression /@ ({"LatitudeDegrees", "LongitudeDegrees"} /. {rules})]}]}
```



Out[ ]:=

```
In[ ]:= GeoGraphics[{Blue, events /. Event[rules___] => Style[Text["AltitudeMeters" /. {rules},
GeoPosition[
ToExpression /@ ({"LatitudeDegrees", "LongitudeDegrees"} /. {rules})]], Medium
]]}
```



Out[-]=