

Self-management

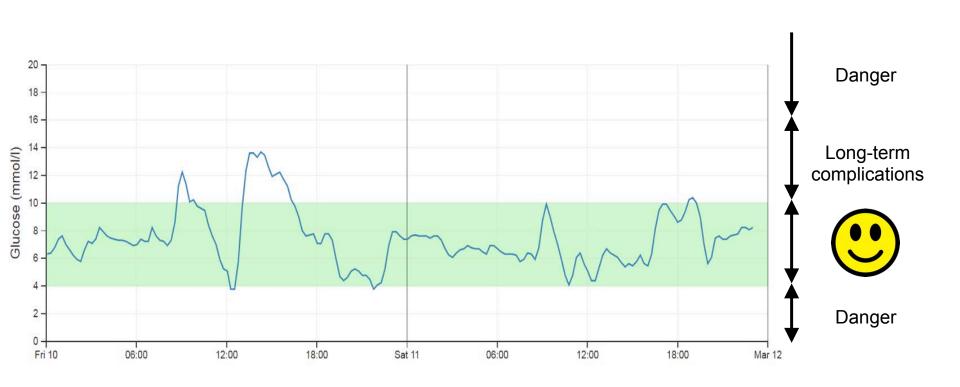
Insulin by injection or pump

Measuring glucose levels





A careful balance



Factors affecting glucose levels

Current glucose level

Available insulin, which is influenced by

Amount injected

Location and state of injection location

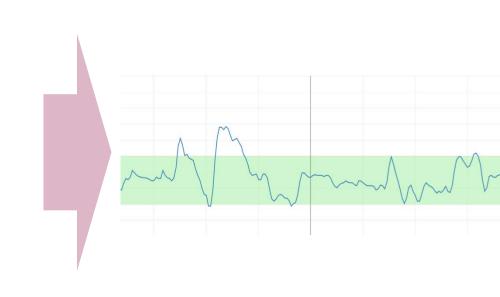
Environment temperature

Contingencies (air bubbles, leakage, etc.)

Food intake

Carbohydrates

Food composition



Exercise (Short & long-term effect)

Glucose sensor

Freestyle Libre (Abbott)



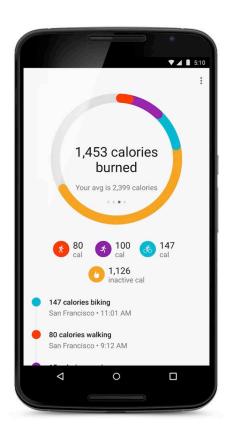
Insulin pump

Minimed Veo (Medtronic)



Activity tracker

Google Fit



Custom web "app"

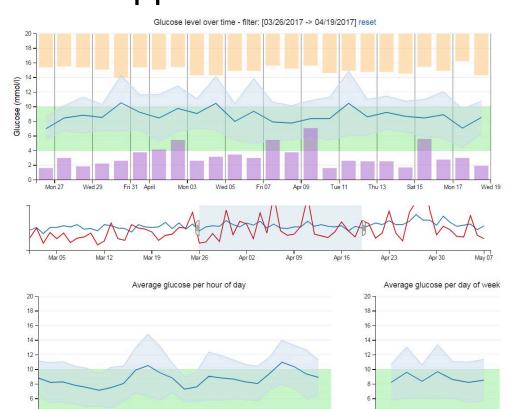
Bring together data sources

Explore data

Discover patterns

Make decisions based on data

Demo (Chrome & Firefox): http://www.sharkwing.com/gc



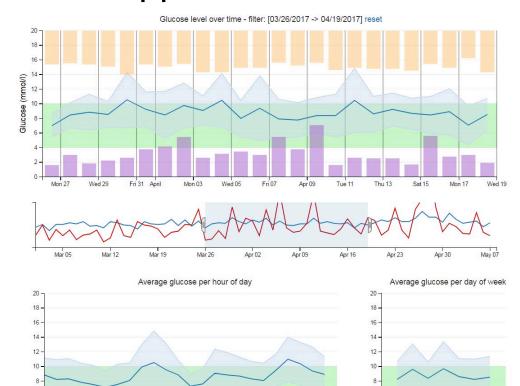
Custom web "app"

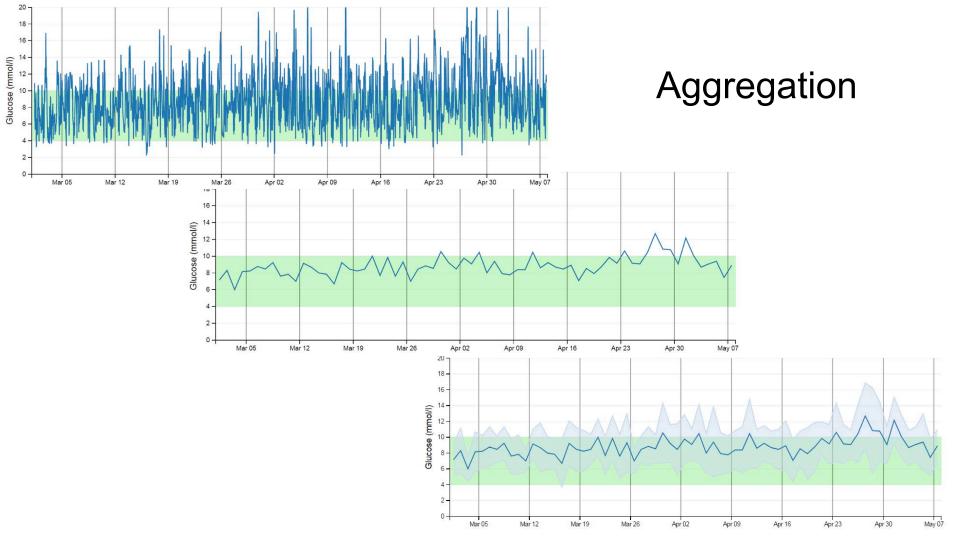
Plain javascript

Runs in browser (currently Chrome & Firefox)

Using dc.js (d3 + crossfilter)

Demo (Chrome & Firefox): http://www.sharkwing.com/gc

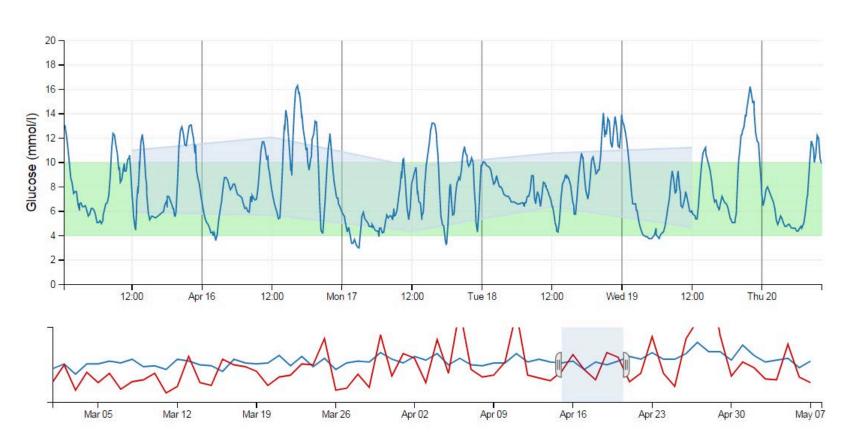




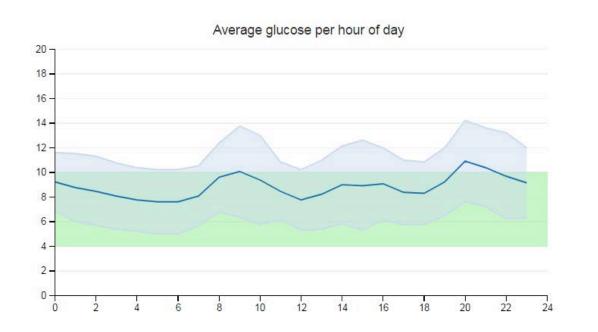
Zooming & level of detail

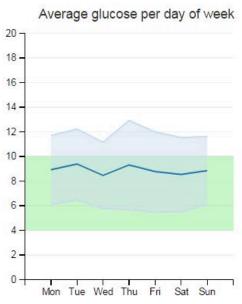


Focus & context

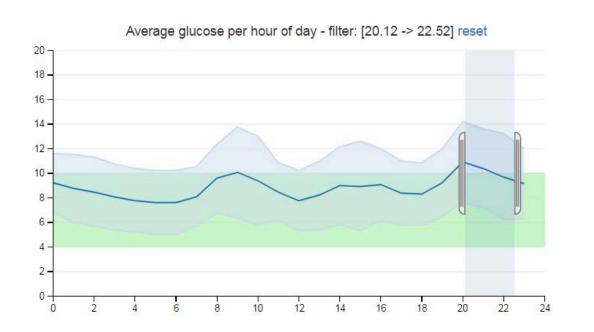


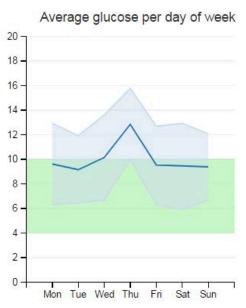
Aggregate over day and week



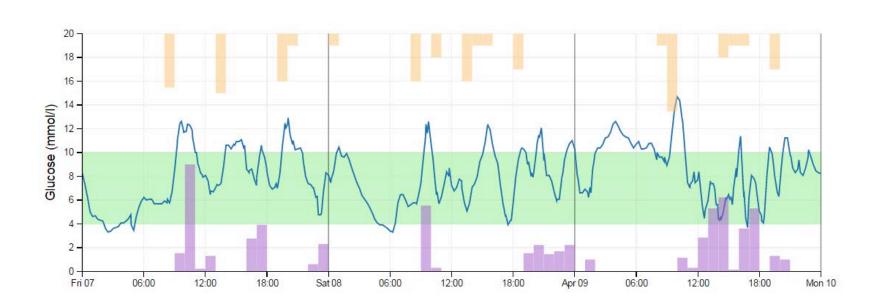


Aggregate over day and week





Activity & insulin



My wish list

Include more variables

Select and aggregate data based on a query

Automatically detect patterns

Give advice based on the patterns that work best

Automate synchronization of data sources

Effects on my diabetes

Being able to identify patterns

Make changes in my approach and lifestyle

Effects on my diabetes

Being able to identify patterns

Make changes in my approach and lifestyle

But also: motivation

