



hGraph and hFigures

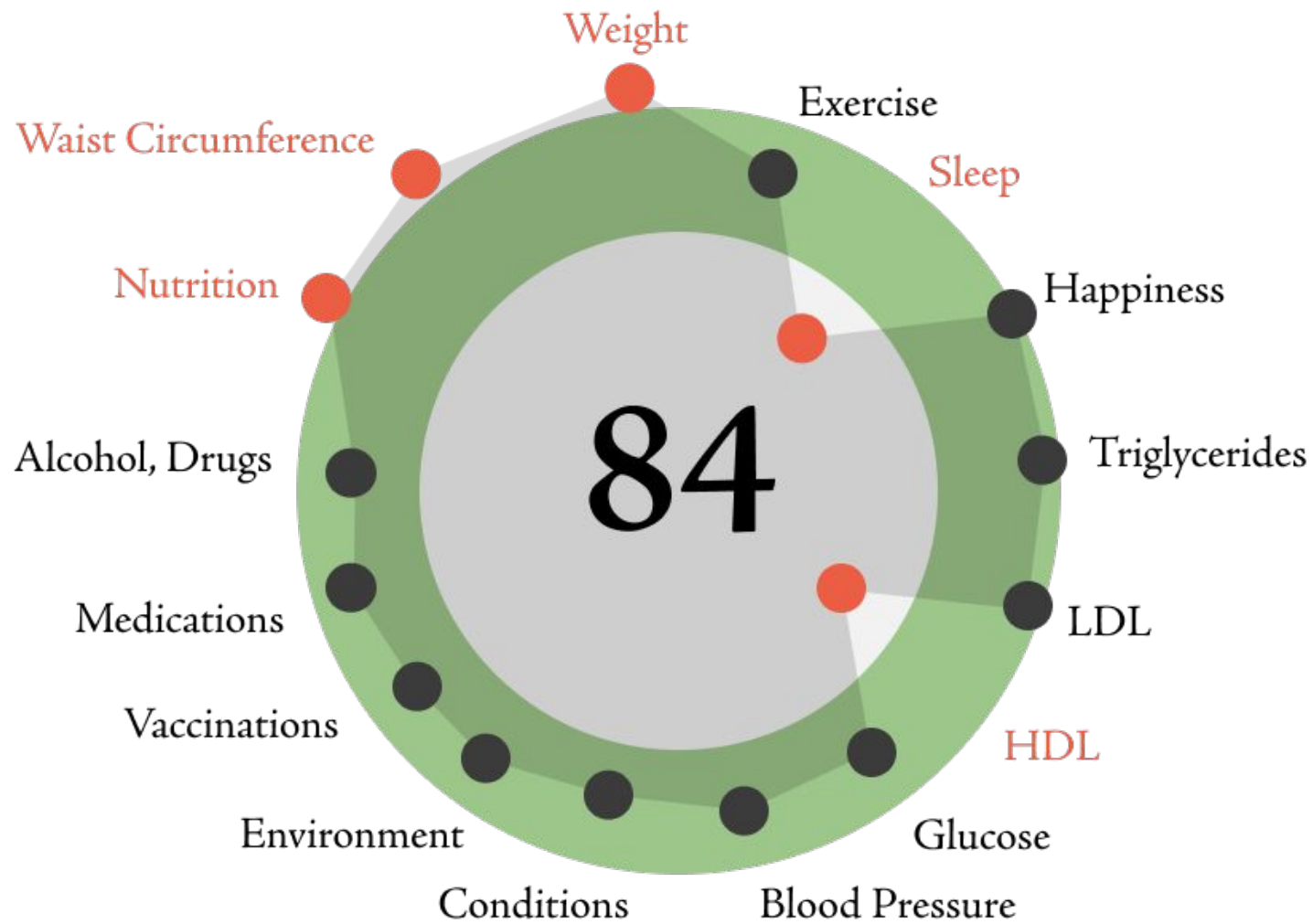
Tamara Babálová

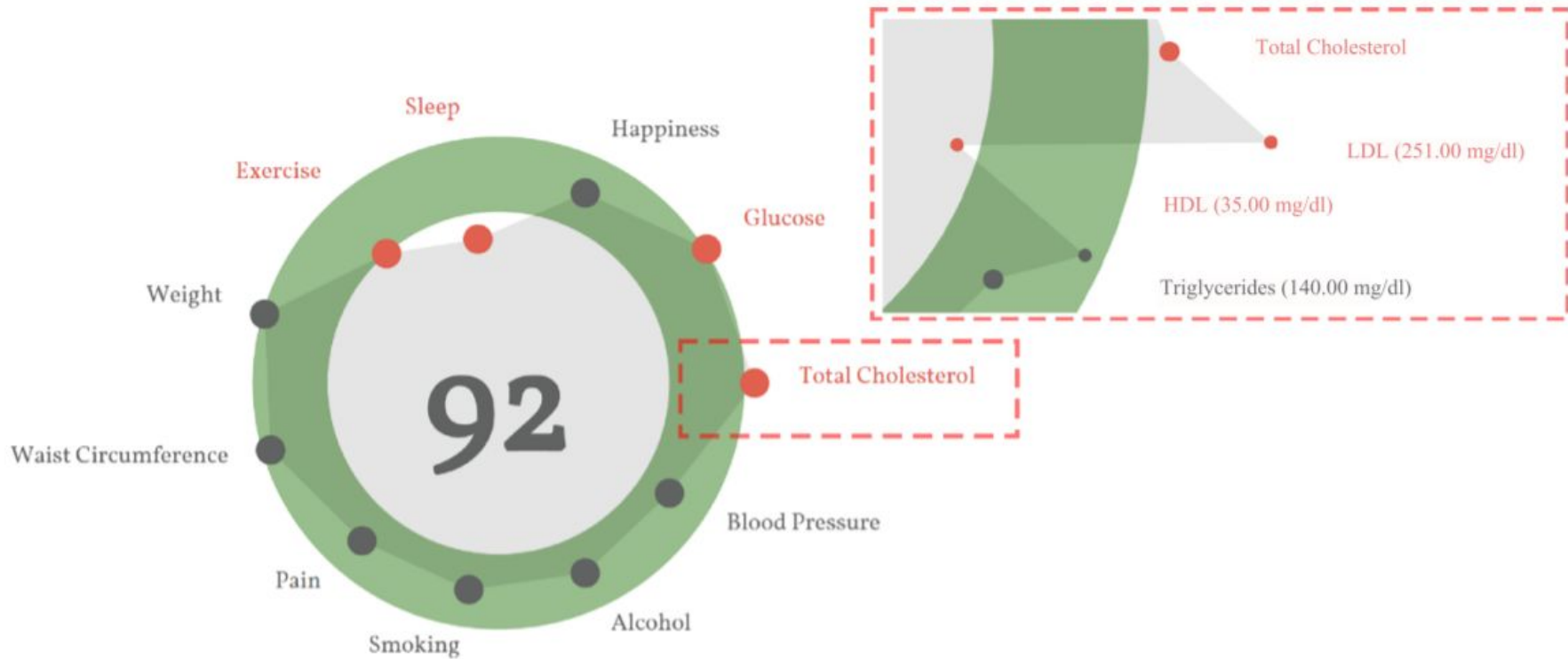
485550

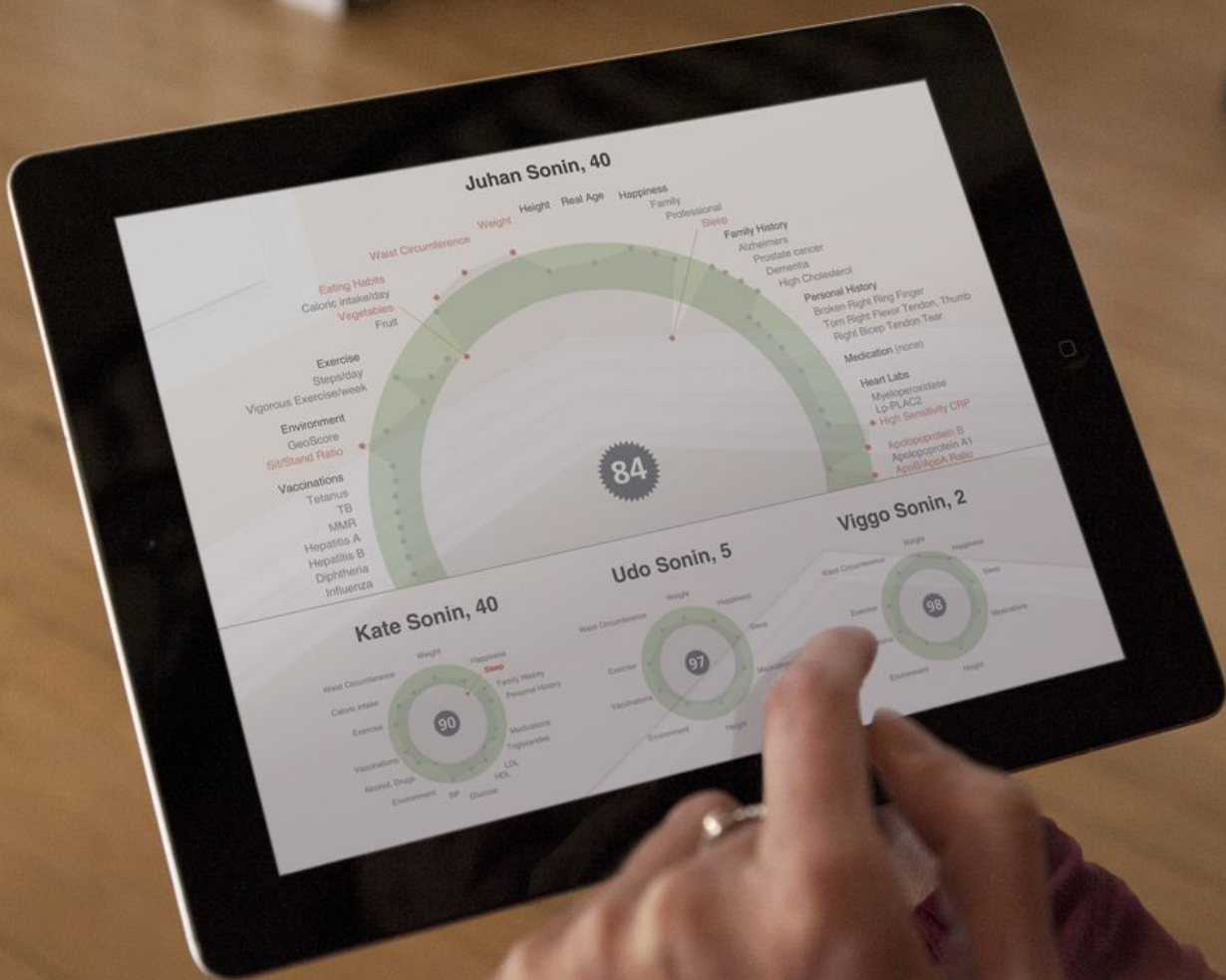


hGraph

- released by MITRE and GoInvo, 2010
- open source javascript library for visualizing personal health data
- complete overview of an individual's health - compiles multiple metrics into a unified graph
- compares a person's health data against targeted health ranges based on factors like age and gender
- free and licensed under Apache 2.0







Andrea7 Santillan790

befab5de-46562-37da-07d3-1a2b199b679a



search andrea's record

Age, Date of Birth
39yrs, 10.Oct.1981

Sex
Female



conditions
Asthma 1

medications
levabuterol (Xopenex HFA), Levora (levon... 2

treatments
none 0

allergies
Penicillin, Shellfish, Pllen, Animal Dand... 6

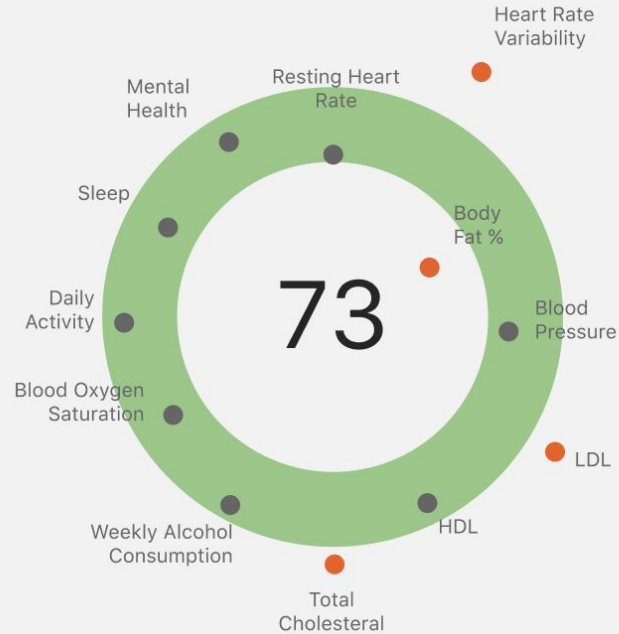
immunizations
Tetanus, MMR, Var... 10 more 14

labs and vitals
CBC, HbA1c, ... 19 more 21

genomics
no data 0

View all past visits (18)

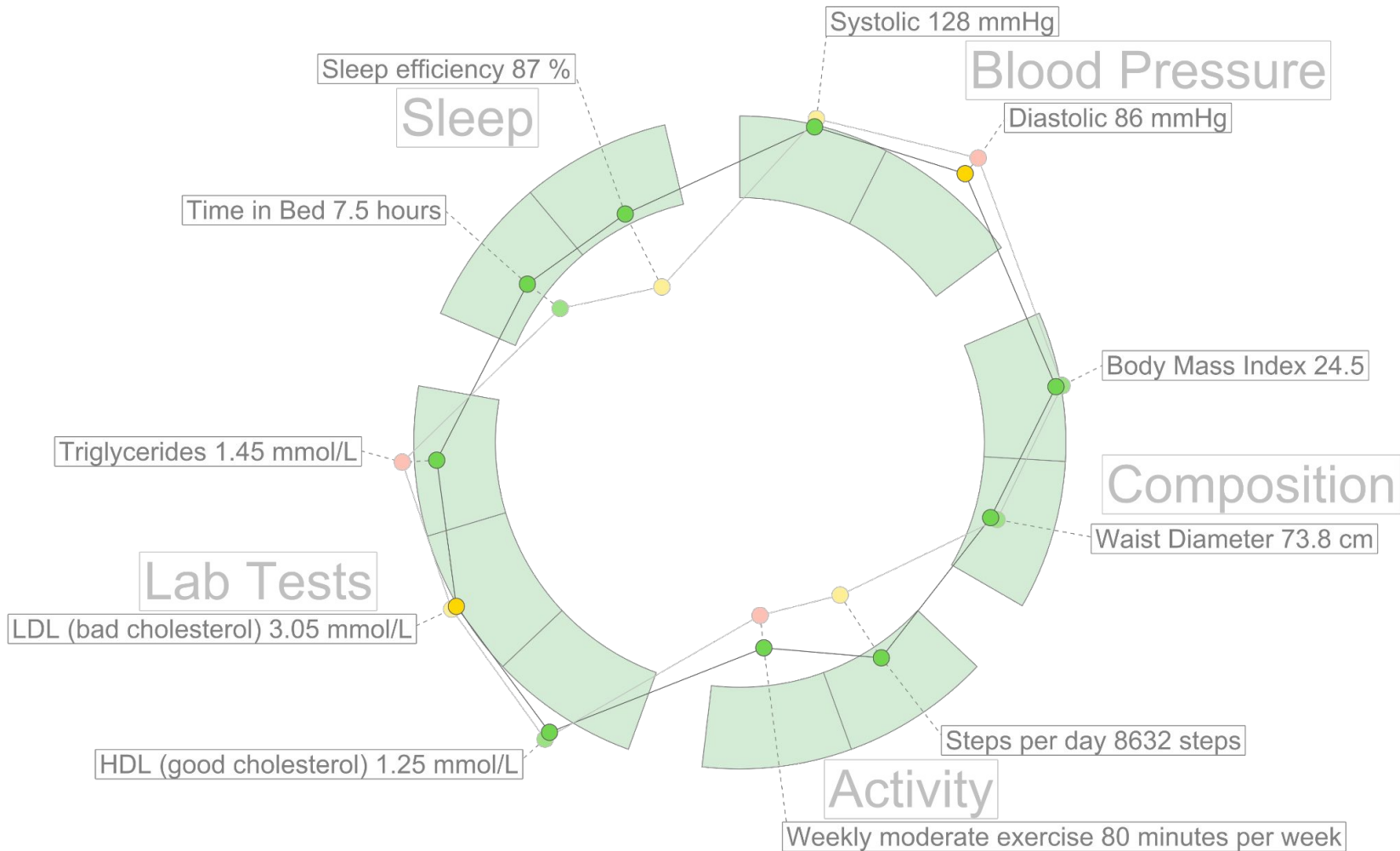
+ Record a new visit





hFigures

- authors Andres Ledesma, Mohammed Al-Musawi and Hannu Nieminen, 2015-16
- based off of hGraph
- key improvement is the addition of multiple graphs as a mechanism to compare the values of the health measurements over time
- the measurements are separated by groups in sectors
- immutable shape
- the hFigures library does not calculate an overall score since the users considered that this task should be the sole responsibility of a health care professional



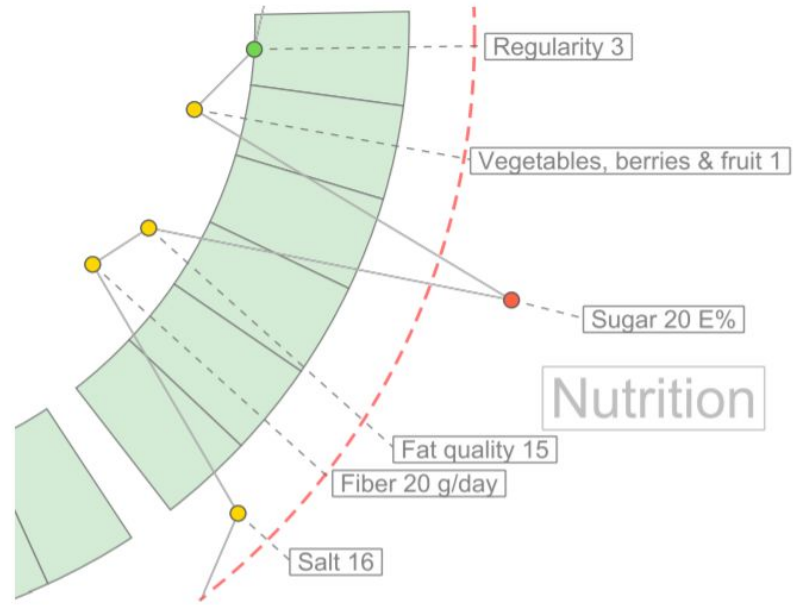
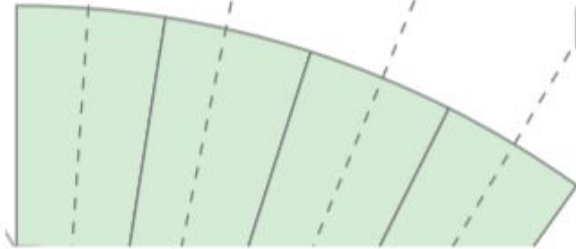
Steps / day (1 wk average) 1952 steps

Moderate intensity exercise 40 minutes per week

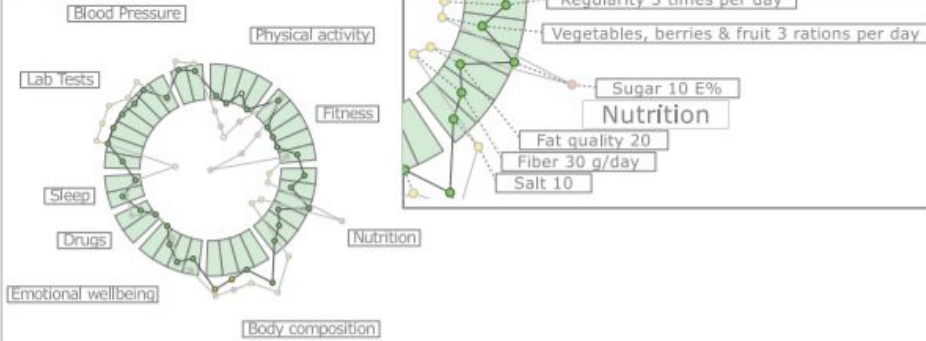
Physical activity

Vigorous intensity exercise 0 minutes per week

Muscle and balance exercise 0 times per week



hFigures



Longitudinal Measurements



Timeline



Functionality	hFigures	hGraph
Color-coded measurements	✓	Partially
Recommended area	✓	✓
Circular distribution of measurements	✓	✓
Plot values at specific times	✓	—
Time series data source	✓	—
Immutable shape	✓	—
Weighted score	—	✓
Multiple graphs	✓	—
Visible category labels	✓	—
Label space distribution	✓	Partially
Grouped measurements	✓	—
SVG export	✓	—



Sources

<https://www.hgraph.org/>

<https://github.com/hgraph-os/hGraph>

<https://www.goinvo.com/work/hgraph>

<https://d-nb.info/1094522775/34>

<https://www.medfloss.org/node/1107>

https://www.researchgate.net/figure/An-example-of-the-hGraph-The-hGraph-shows-an-overview-at-a-low-zoom-level-When-the-zoom_fig1_325313371