Ubiquitous and Mobile Computing
CS 528: Google Fit

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do YOU want to be fit?
Exercise daily

do YOU want to be fit?
Exercise daily

Eat right

do YOU want to be fit?
Exercise daily

Sleep well

Eat right

do YOU want to be fit?
do YOU want to be fit?

Exercise daily
Sleep well
Track calories
Eat right
Exercise daily

Sleep well

Track calories

Google Fit API!

do YOU want to be fit?
What is Google Fit API?

- Open ecosystem that allows developers to upload fitness data to a central repository where users can access their data from different devices and apps in one location
- Part of Google Play services
- Supported in Android 2.3 (API level 9) and higher
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What does Google Fit API consist of?

- Sensors API
- Recording API
- History API
- Sessions API
- Goals API
- Bluetooth Low Energy API
Specific problems it's designed to solve

- Track Fitness Activity
- Consumer Well-being
- Clinical trials
- Record and ask experts yourself
- Answer to Apple Health
Typical example use case: When is it typically used?
Typical example use case: When is it typically used?

- Smartwatches
- Other Fitness Bands
Typical example use case: When is it typically used?

- Weighing Machines
The Keeping on Track Study: Exploring the Activity Levels and Utilization of Healthcare Services of Acute Coronary Syndrome (ACS) Patients in the First 30-Days after Discharge from Hospital

Robyn A. Clark ¹,*ID, Jonathon Foote ¹, Vincent L. Versace ²ID, Alex Brown ³, Mark Daniel ⁴, Neil T. Coffee ⁴, Tania S. Marin ¹, Constance Kourbelis ¹, Margaret Arstall ⁵, Anand Ganesan ⁶, Ralph Maddison ², Janet Kelly ³, Tracey Barry ¹, Wendy Keech ⁷, Stephen J. Nicholls ⁸
and on behalf of the Health Translation SA Cardiac Rehabilitation Group
Overview of how it works

- Comprised of:
  - Sensors API
  - Recording API
  - History API
  - Sessions API
  - Goals API
  - Bluetooth Low Energy API
Create a data source

Create a data point (ex. strawberry)

Read the data after inserting it
2 data points: strawberry, banana
References

- Insert references