







What's in a smartphone - the hardware inside?

And, why is it such a revolutionary device?

What software runs on phones?

How to I code apps and distribute them to the masses?

Oh, and I do I get rich... quickly.

Where is does the vision lead? End of smartphone era!!



what's under the hood?





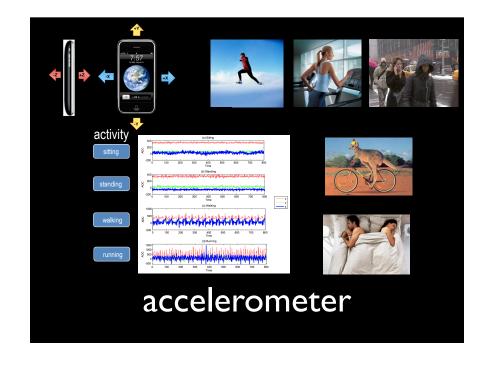




Learning to program phones
Six thematic labs (MyRuns)
Group continuous Sensing app

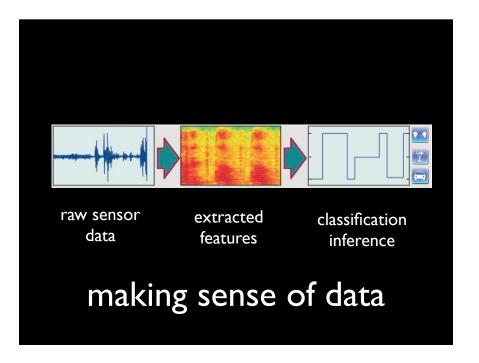












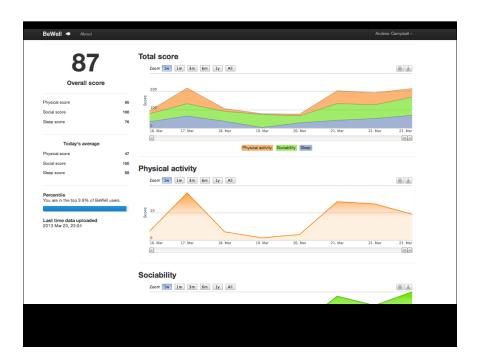
Group Project

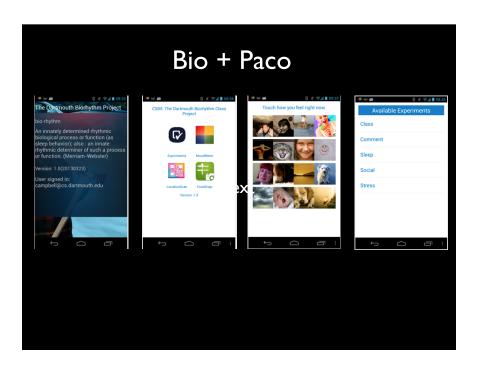
Groups of 5 students -- last 2 weeks of class hopefully

Common thematic project: develop a continuous sensing application using activity, sleep, sociability, others -- e.g., colocation, places visited, application usage.

Come up with the concept -- has to use sensor streams -- develop the app, and demo it.







Dartmouth Biorhythms Project

The sprint and the marathon (a view form two lvyies)

Goal: to study one dartmouth class across one term -- first time this has been done - anywhere.

Question: understanding the lives of the typical dartmouth undergraduate student; issues such as workload, stress, sleep, activity, health, social support, burnout across one term

Surveys, sensor streams and self-report -- you have to carry you Nexus-4 with you answer some questions.

Sensing is automatic and unobtrusive.

Reasons to opt in

Be part of an exciting project, make history at Dartmouth, in this class.

Giving 10 Nexus-4 phones and Jawbones (for top users) away and Dartmouth Biorhythm T-Shirts to all people that complete.

Use your own live streams in the group projects.

Dartmouth Biorhythm study is approved by Dartmouth Committee Protection of Human Subjects and all data is stored securely, protects privacy



