

# Beyond the share button:

Challenges & Opportunities for Social Features in Wellness Interventions

Sean A. Munson

A large, bold, white letter 'W' logo on a dark blue background.The logo for Human Centered Design & Engineering (HCDE). It features the letters 'HCDE' in a bold, white, sans-serif font, stacked vertically. To the right of the letters, the words 'Human', 'Centered', 'Design &', and 'Engineering' are stacked vertically in a smaller, white, sans-serif font.The logo for 'dub', featuring the lowercase letters 'dub' in a white, rounded, sans-serif font on a dark blue background.

slides & references at [smunson.com/talks/hcde521a13](http://smunson.com/talks/hcde521a13)





## Cookie Monster

I rowed 140,095 meters (87 miles) between 11/25 and 12/24, raising \$3.60 for charity through Concept 2's holiday challenge Exercise FTW!

11 minutes ago · [Unlike](#) · [Comment](#)



## Cookie Monster

I spent 30 minutes on a stairmaster. 367 calories burned.

 15 hours ago via [Lose It!](#) · [Like](#) · [Comment](#)



## Cookie Monster

Just completed a 22.13 km run with RunKeeper. Feeling good!



### RunKeeper stats and mapped route of my run

Distance 22.13 km | Duration 2:04:39 | Calories Burned 1475

Average Pace 5:38 / km | Average Speed 10.65 km/h | Elevation climb 75 m.

 44 minutes ago via [RunKeeper](#) · [Like](#) · [Comment](#) · [Track your fitness](#)



## Cookie Monster

### **I feel like giving up**

I was feeling really good until a few months ago. I was walking just about every day and even began Couch to 5k. First I got shin splints really bad and had to stop running and most walking. They healed; I started up again with high hopes; then my knee swelled up and I have constant back and hip pain. I also have chronic shoulder pain. Great. It seems like all of my efforts to get fit have only hurt my physical condition more. The harder I try, the worse my health gets. It's very hard to continue wondering what my next injury will be. I want to make myself stronger, not weaker!

Pounds lost: 0



## Cookie Monster

### **Worried, depressed, upset**

Okay...I am pressing the panic button :)  
I am about 150 lbs overweight. Last year I was diagnosed with Type 2 diabetes. Got that under control with Metformin and healthy eating most of the time. A1C was 6.5 last time. So, I go to the dr. last week to get a refill for my Meformin and he decides to check my blood pressure and it's 140/85!!! Too high! So, now I have to monitor it for 2 weeks and go back. I feel like crying...if it's not one thing it's another. I am worried, upset, and depressed about this.

# **Beyond the share button:**

Challenges & Opportunities for Social Features in Wellness Interventions

People are turning to social software to help them:

- Adopt and maintain healthy behaviors
- Receive support in managing wellness challenges and chronic conditions

# **Beyond the share button:**

Challenges & Opportunities for Social Features in Wellness Interventions

How can social software best support **health & wellness**?

Using health & wellness applications as experiment sites, what can I learn about **social influence theories**?

# How can social software best support health & wellness?

Using health & wellness applications as experiment sites, what can I learn about theories of influence?





# How can social software best support health & wellness?

Using health & wellness applications as experiment sites, what can I learn about theories of influence?

## Outline



**Background:** How do people use different online social spaces to meet their health needs?

# How can social software best support health & wellness?

Using health & wellness applications as experiment sites, what can I learn about theories of influence?

## Outline



**Exploratory work:** When and how can sharing on *Facebook* be a nudge in health & wellness applications?

# How can social software best support health & wellness?

Using health & wellness applications as experiment sites, what can I learn about theories of influence?

## Outline



v2



**Current work:** Moving beyond the share button.

- Improved sharing & efficacy evaluation
- Social goals & Commitments



## ***Background exploration:*** *Social support in Online Health Communities & Facebook*

Newman MW, Lauterbach D, Munson SA, Resnick P, Morris ME. (2011). "It's not that I don't have problems, I'm just not putting them on Facebook": Challenges and Opportunities in Using Online Social Networks for Health, *CSCW 2011*.



# online health communities

offer:

- Emotional Support
- Motivation and mutual accountability
- Experience-based information

Ability to connect with peers  
anonymously and conveniently

Messaging, forums, profiles,  
tracking tools, produced content

Farnham et al. 2002; Frost & Massagli 2009;  
Hwang et al. 2010; Maloney-Krichmar & Preece  
2005; Preece 2000; Skeels et al. 2010.

Connections to existing social  
network, including strong and  
weak ties from a variety of social  
contexts

Real-world identity

Can connect with strangers in  
Facebook apps

Messaging, groups, profiles, apps

Facebook; boyd 2008; Ellison, Steinfield, &  
Lampe 2008; Joinson 2008.



## *study design*

Participants who:

- were members of at least one OHC and Facebook
- had posted  $\geq 5$  messages in the past month
- Recruited from OHCs for weight loss and diabetes management

90 minute interview with screen sharing.

## participants

n = 14 (3 male; 11 female)

primary communities:

- SparkPeople (n=8)
- DiabetesDaily (n=2)
- FatSecret (n=2)
- TuDiabetes (n=1)
- Personal blog (n=1)

primary health concerns:

- weight loss (n=7)
- weight maintenance (n=4)
- Type II diabetes (n=3)
- arthritis (n=1)

time in community: 1.78 years

median: 1.75 years

stdev: 1.14 years



## *findings*

*how participants met goals*

emotional support

accountability & motivation

advice

impression management



emotional support

accountability & motivation

advice

impression management

## *emotional support*

Online health communities valued over in-person:  
support any time of the day or night.

*“[If] I am going through a rough patch, and I post it up, I can see **immediately** someone respond.”*

P3

## *emotional support*

**Connect with people who have been in the same situation**

*“... and just some of the people that I am friends with, they have not had that journey, so they don't quite understand”*

P8

Trust that this can happen on OHCs vs. fear of “sarcastic,” “negative,” or uninformed responses on Facebook.

## *emotional support*

Strategies for what to put on Facebook vs. OHCs:

- don't post struggles to Facebook

*“I didn't want everybody on Facebook knowing that my butt muscle hurt today.”*

P6

- frame messages differently for each community  
*e.g., details about frustrations to OHCs, brief updates to Facebook.*

emotional support  
accountability & motivation  
advice  
impression management

**accountability** *preferences varied*

“[My SparkFriends] were **checking on me** to make sure everything’s okay. None of us wants each other to fall of the ladder. **They all want me to be successful and stay fit.**”

*P7*

“... **they’re strangers, and so you don’t know that you’re going to see them the next day...** so accountability doesn’t quite work because you don’t know the people.”

*P8, who recruited friends to her blog.*

## ***motivation***

**Role models, mentors, competitions** were easier to identify or create in OHCs.

Need to **avoid people who would bring them down**, but the sense that others were there and struggling too – so long as they continued trying – also offered motivation.

Posts to Facebook as “**nudging**” *others*.

emotional support  
accountability & motivation  
advice  
impression management



## *advice*

Particularly important early in the process – e.g., shortly after diagnosis.

**Advice/information-seeking often brought people to the online health community, but rarely why they kept coming back.**

**Need to share (& join) in order to get better advice.**

emotional support  
accountability & motivation  
advice  
impression management

## ***impression management*** | *Facebook as front stage*

“like a standup comedy routine”

*P2*

“I have had people send me a private message of ‘wow, your life is so great! You know you do this, this, and this and all these fun things happen’ And I tend to think **‘you know, you’re only seeing what I want you to see.’ ... It’s not that I don’t have problems, I’m just not putting them on Facebook.**”

*P2*

## ***impression management*** | *Facebook as front stage*

“I kind of like to ‘out’ my running ability now... I really like to talk about my running on Facebook, because **I’m so darn proud of it...**

“They’re just so surprised I’m running and they’ll say like ‘fantastic’ and ‘when are you going to run?’ And so yeah, I’m getting the feedback I want. **I’m finally getting... some positive feelings from those people that I couldn’t get back in high school.**”

## ***impression management*** | *Facebook as front stage*

“There are some people I wouldn’t care about if they saw [posts I might make about my health on Facebook] but I got people, you know, from my high school and that I am **friends with that I haven’t talked to in 25 years. And I have no desire for them to know about my weight issues or weight status.**”

## ***impression management*** | *OHCs as back stage*

Can let guard down, share frustrations and struggles  
(and need to in order to get support and advice on this)  
without fear of judgment or boring others.



## ***findings***

*building and shaping the network to help meet goals*

## ***building and shaping the network***

Join OHCs to not feel alone, find people who can motivate and offer needed support.

... this requires sharing.

“My page was never private... to me, if I’m new, I’m not going to have friends – because I don’t know anybody. And if I’m new **and I’m private on top of that, my chances of having friends is low.**”

*P5*



## ***building and shaping the network***

Sometimes migrate OHC friends to Facebook.

- feel more connected
- increases accountability

Also could stay connected to OHCs through Facebook pages.



## ***How can existing social network sites help?***

*What are the opportunities associated with Facebook?*

- Advice and support relevant to *your* context and personality
- People whose opinions matter
  - for accountability
  - for showing off success & communicating identity

# How can software best support health & wellness?

Using health & wellness applications as experiment sites, what can I learn about theories of influence?

## Outline



**Exploratory work:** When and how can sharing on *Facebook* be a nudge in health & wellness applications?

## Intervention 1: Three Good Things

Three Good Things

①

②

③

Things:

Seligman, M; Steen, T; Park, N; Peterson, C.  
(2005). "Positive Psychology Progress,"  
*American Psychologist* 60(5), 410-421.



## Intervention 1: Three Good Things

**Adherence:** Can integration with a social network site make it stickier?

**Efficacy:** Can social interaction around good things make it more effective?

# the 3GT app

facebook

Home Profile Friends Inbox

Settings Logout

## Good Things

Good thing:

Why did this happen:

(Always private)

Privacy & publicity:

Post to your Facebook newsfeed & visible to friends

Post

## Recent Good Things from You

refresh

### September 08

1. managed to fit in a short walk through Mariposa Grove (Yosemite) in on Monday x  
 x
2. sunset from glacier point in Yosemite on Saturday x  
Why did this happen:
3. had a great hike up half dome on Sunday x  
 x

## good words

cold finally **finished** friends  
**great** hanging **hike** making met new  
progress **research** river **started** time  
yesterday

## reason words

cold decided didn't early finally  
**getting idea** introduced make  
organized **people** research river  
suggested time

We are importing from your Twitter account @ [redacted]. Just use #3gt in your tweet. Your account must be public for this to work. [stop importing]

## your friends using 3gt



# the 3GT app

facebook

Home Profile Friends Inbox

Settings Logout

## Good Things

Good thing:

Why did this happen:

(Always private)

Privacy & publicity:

- Post to your Facebook newsfeed & visible to friends
- Visible to Facebook friends who visit 3GT
- Private (visible only to you)

Post

## Recent Good Things from You

refresh

### September 08

- managed to fit in a short walk through Mariposa Grove (Yosemite) in on Monday x  
 x
- sunset from glacier point in Yosemite on Saturday x  
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Home Profile Friends Inbox

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Why did this happen:

(Always private)

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### good words

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**great** hanging **hike** making met new  
progress **research** river **started** time  
yesterday

### reason words

## Recent Good Things from

September 08

1. managed to fit in a short  
Avoided getting too wo
2. sunset from glacier point  
Why did this happen:
3. had a great hike up half o  
I got up early, decided

## Sean Munson

Wall

Info

Photos

Boxes

+

3 Good Things

X

Why did this happen:



Share

Options



# the 3GT app

facebook

Home Profile Friends Inbox

Settings Logout

## Good Things

Good thing:

Why did this happen:

(Always private)

Privacy & publicity:

Post to your Facebook newsfeed & visible to friends

Post

## Recent Good Things from You

refresh

September 08

1. managed to fit in a short walk through Mariposa Grove (Yosemite) in on Monday x  
Avoided getting too worried about being late x
2. sunset from glacier point in Yosemite on Saturday x  
Why did this happen:  Save
3. had a great hike up half dome on Sunday x  
I got up early, decided I'd give it a go x

## good words

cold finally **finished** friends  
**great** hanging **hike** making met new  
progress **research** river **started** time  
yesterday

## reason words

cold decided didn't early finally  
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We are importing from your Twitter account @ [redacted]. Just use #3gt in your tweet. Your account must be public for this to work. [stop importing]

## your friends using 3gt



### Good Things

Good thing:

Why did this happen:

(Always private)

Privacy & publicity:

Post to your Facebook newsfeed & visible to friends

Post

### Recent Good Things from You

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#### your friends using 3gt



### 3 Good Things: Paul Resnick

[Go to your 3 Good Things profile](#)

May 28

- 1. Joyojeet Pal joining Michigan School of Information f...  
@sidisplay

May 27

- 1. Gettysburg battlefield tour on horseback, w/ Max's cl...  
understanding the battle's tactical progression.

April 04

- 1. New draft of Motivating Contribs chapter of CLab Har...  
won't have to read same version as last year.

February 21

- 1. Gluing Warhammer Tyranids with M, and reading Speaker for the Dead to him.
- 2. Giveaway/throwaway day. Generated 3giant bags of c...  
all family members contributing.
- 3. Spinning. Starting to build up stamina.

February 20

- 1. Morning at Liberty: swim with J, tennis with C and M,

February 16

- 1. Two-a-day workout: spinning early am to recorded c...  
evening.
- 2. Writing code for si182 programming exercises doesn...  
of time, but it's fun.
- 3. Writing code for si182 programming exercises doesn...  
of time, but it's fun.

February 15

#ict4d

Paul has not posted any good things for 3 days. Would you like to nudge him?

stage for

day fun great i'm max morning  
new paper pilates proposal sean  
si182 social student time



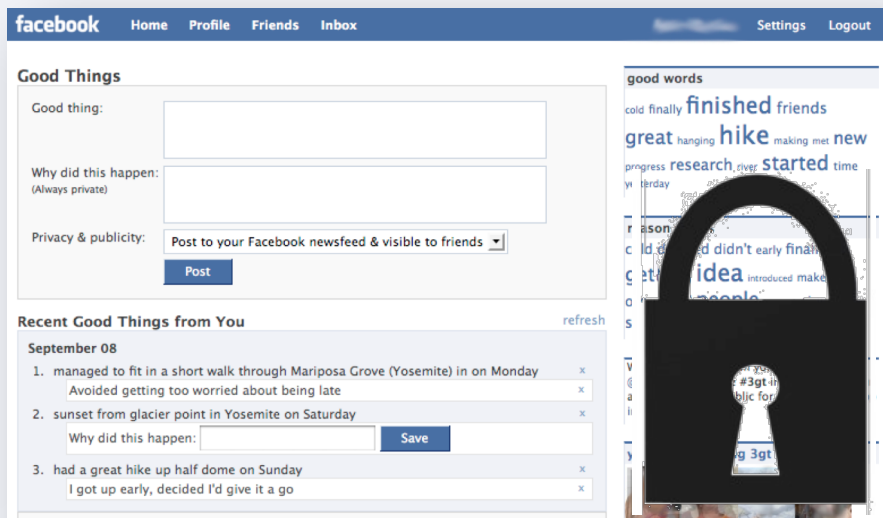
noticed that you haven't posted to 3GT recently, and wanted to send you a reminder to keep posting!

Chat (13)

# Different sharing defaults



Share on newsfeed by default



Private by default

# 3GT App participants

Recruited through Facebook ads, Facebook application directory, posts elsewhere online, and invites from other 3GT users.

Signups 20 July 2009– 21 February 2010.

No compensation to participate; \$20 for interview.

Demographic questionnaire at signup.

## PARTICIPANTS

*n*

**Signed up:** 190

**Active:** 55

posted at  $\geq$ twice, at least a week apart

**Interviewed:** 6

people who stopped participating lost to follow-up.

## *demographics*

**Age:** 36.9 years

**Gender:** 7 men, 48 women



## 3GT

Positive psychology exercise around recording everyday good things.

Increase adherence & efficacy by sharing publicly & receiving feedback?

Field deployment, open enrollment.

Analysis of use logs and interviews with users.

The screenshot displays the Facebook interface with the 3GT application integrated. On the left, the 'Good Things' form is visible, featuring a search bar at the top, a 'Good thing:' text area, a 'Why did this happen: (Always private)' text area, and a 'Privacy & publicity:' dropdown menu set to 'Post to your Facebook newsfeed & visible to friends'. A 'Post' button is located below the form. To the right, the 'your friends using 3gt' section shows a grid of profile pictures of users who have used the application. Below this, the 'Recent Good Things from You' section displays a list of posts from April 18 and April 16, including text such as 'another round of happy class nostalgia' and '4.5hr of #si182 office hours makes me v'.

[threethings.net](http://threethings.net)

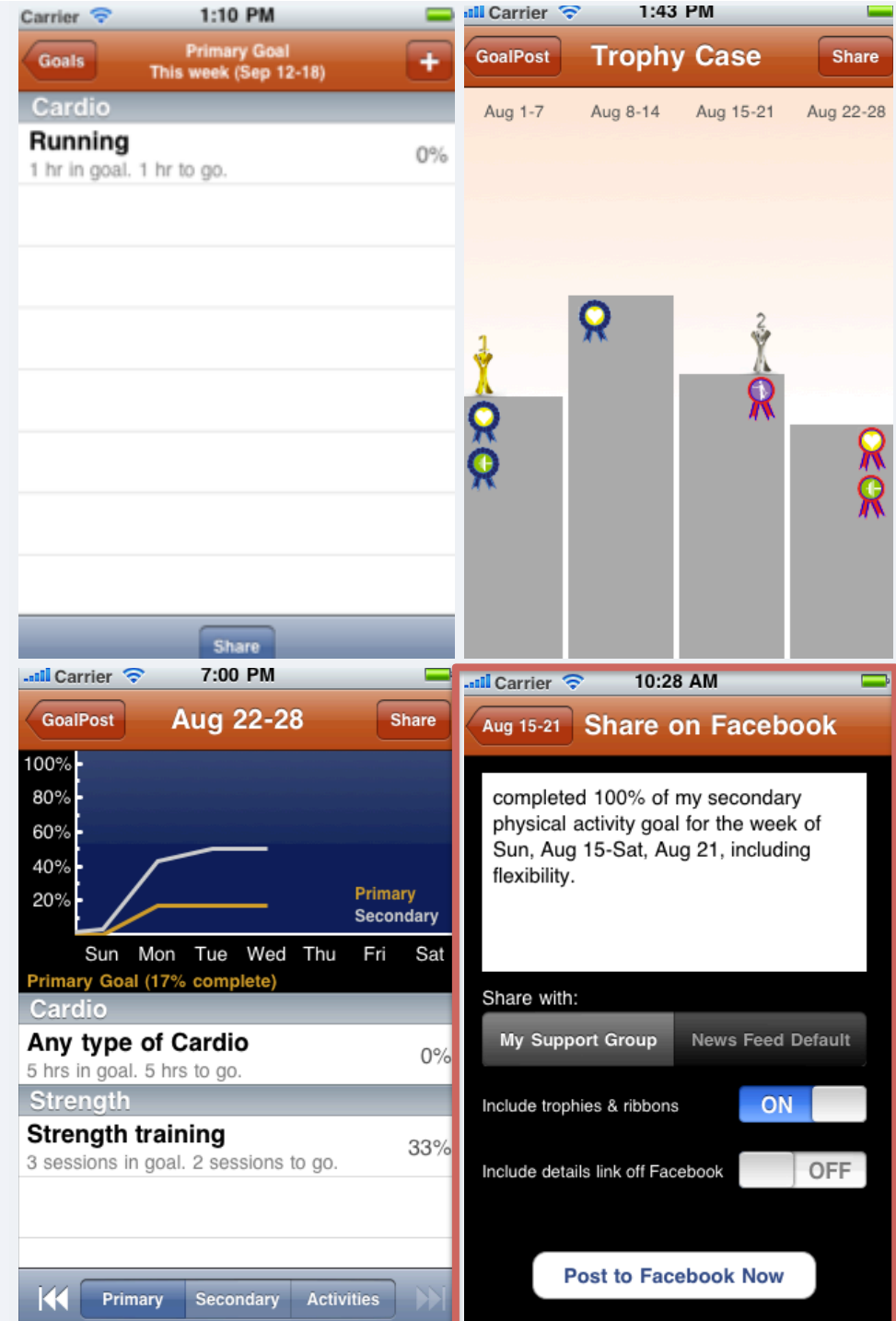
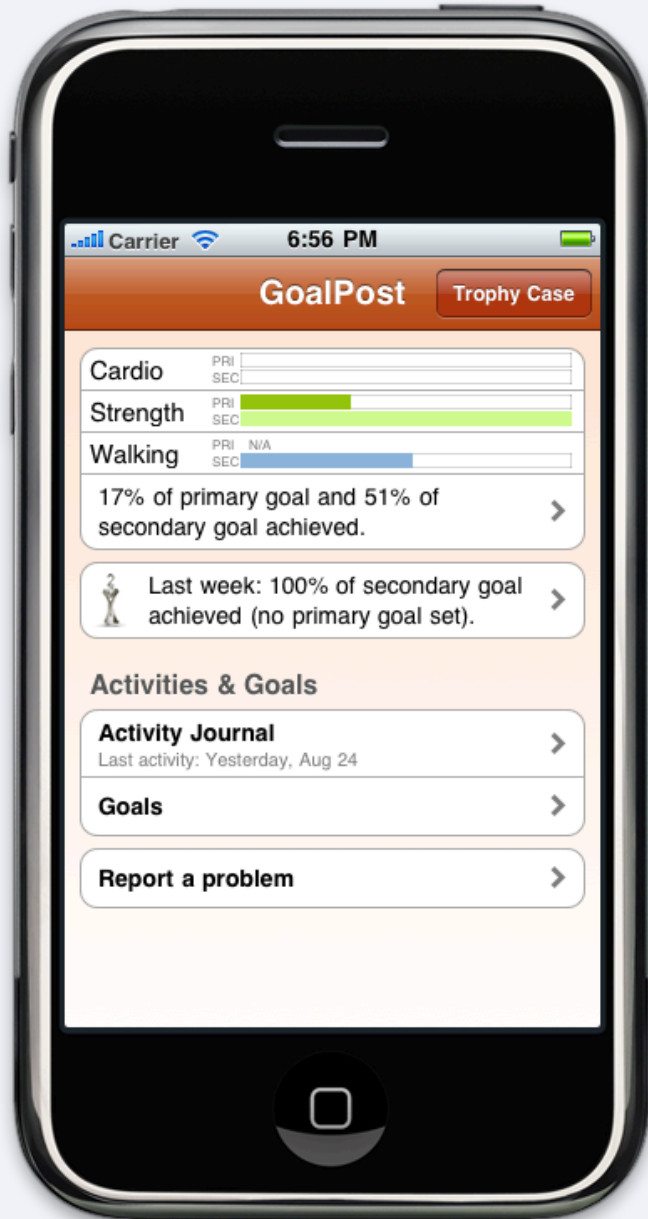
Munson SA, Lauterbach D, Newman MW, Resnick P. (2010). "Happier Together: Integrating a Wellness Application Into a Social Network Site," *Persuasive 2010*.

A high-angle photograph of a person running on a brick-paved path. The person is wearing a bright neon green long-sleeved shirt, black shorts, white socks, and grey athletic shoes. Their right arm is raised, and they are looking forward. The path is made of reddish-brown bricks, and a concrete curb is visible in the upper right. The background is a grey asphalt road.

## Intervention 2: Goal-setting & Self Monitoring for Physical Activity

Munson SA, Consolvo S. (2012). "Exploring Goal-setting, Rewards, Self-monitoring, and Sharing to Motivate Physical Activity," *Pervasive Health* 2012.

# GoalPost



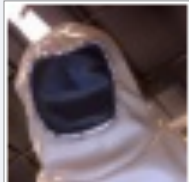
manual @ smunson.com/talks/hcde521a13



# GoalPost | sharing

The image displays three sequential screenshots of an iPhone application interface for sharing a goal completion message on Facebook. The top status bar of each screenshot shows 'Carrier', signal strength, Wi-Fi, and the time: 10:21 AM, 10:25 AM, and 10:28 AM respectively.

- First Screenshot (10:21 AM):** The header is 'Aug 15-21 Share on Facebook'. Below it, a prompt says 'Select a message to use or edit:'. Three message options are listed, each enclosed in a red box. The first option is highlighted. At the bottom is a button labeled '[Create my own]'.
- Second Screenshot (10:25 AM):** The selected message is shown in a white box with a red border: 'completed 100% of my secondary physical activity goal for the week of Sun, Aug 15-Sat, Aug 21, including 100% of my flexibility.' Below the message is a 'Share with:' field and a QWERTY keyboard.
- Third Screenshot (10:28 AM):** The sharing options are displayed. The 'Share with:' field is highlighted with a red box and contains two options: 'My Support Group' and 'News Feed Default'. Below this are two toggle switches: 'Include trophies & ribbons' (set to ON) and 'Include details link off Facebook' (set to OFF). A 'Post to Facebook Now' button is at the bottom.



**Patricia Ticker** completed 100% of my secondary physical activity goal for the week of Sun, Aug 15-Sat, Aug 21, including flexibility.



Posted using GoalPost



8 minutes ago via GoalPost · [Comment](#) · [Like](#)

## *GoalPost study*

**23** subjects, Seattle metro area, gender balanced  
contemplation, prep, action stages of TTM

**12** with sharing, **11** without

**21-49** years old

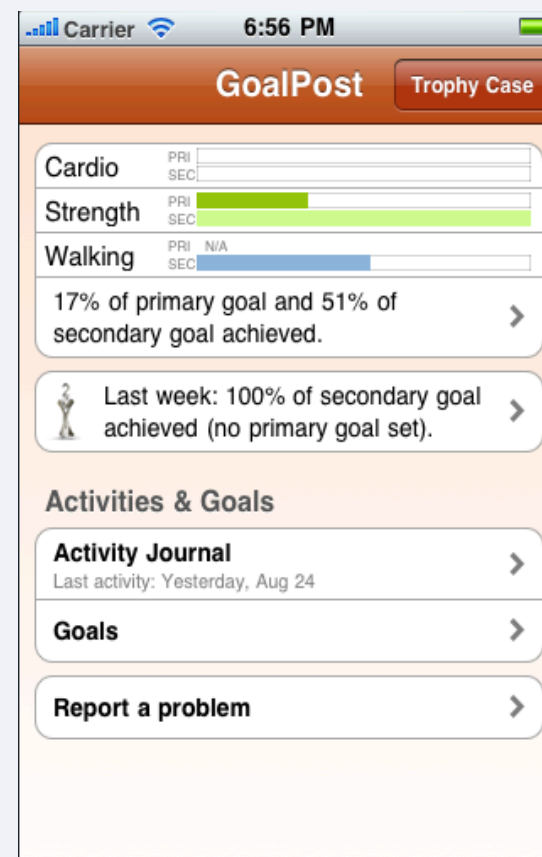
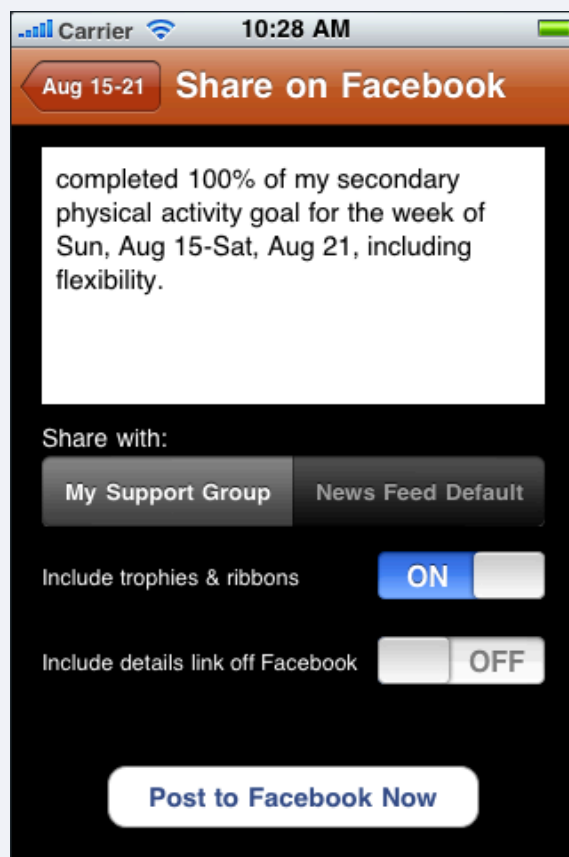
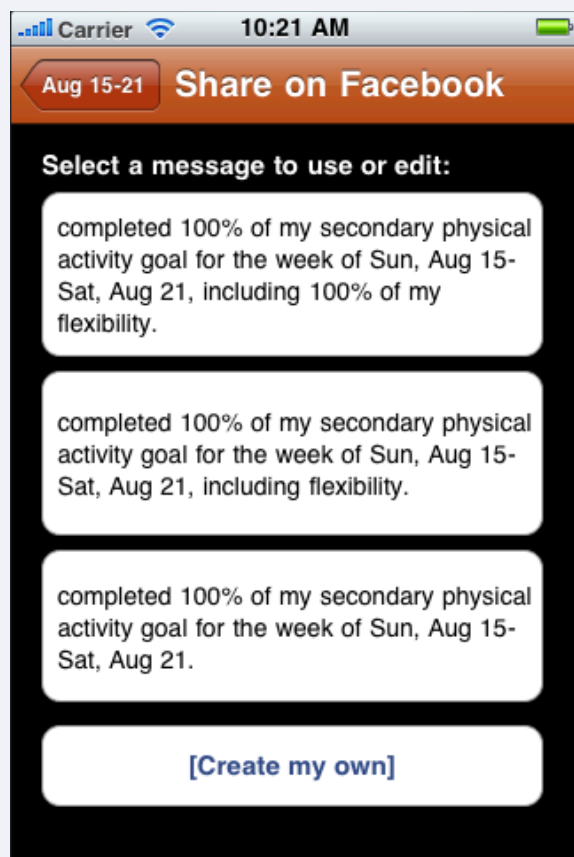
**4<sup>+</sup>** week field trial

Office visit at beginning to install & introduce app  
5 intra-study surveys  
Semi-structured interviews after study



# GoalPost

4-week field deployment, 23 professionally recruited participants  
12 with sharing features, 11 without



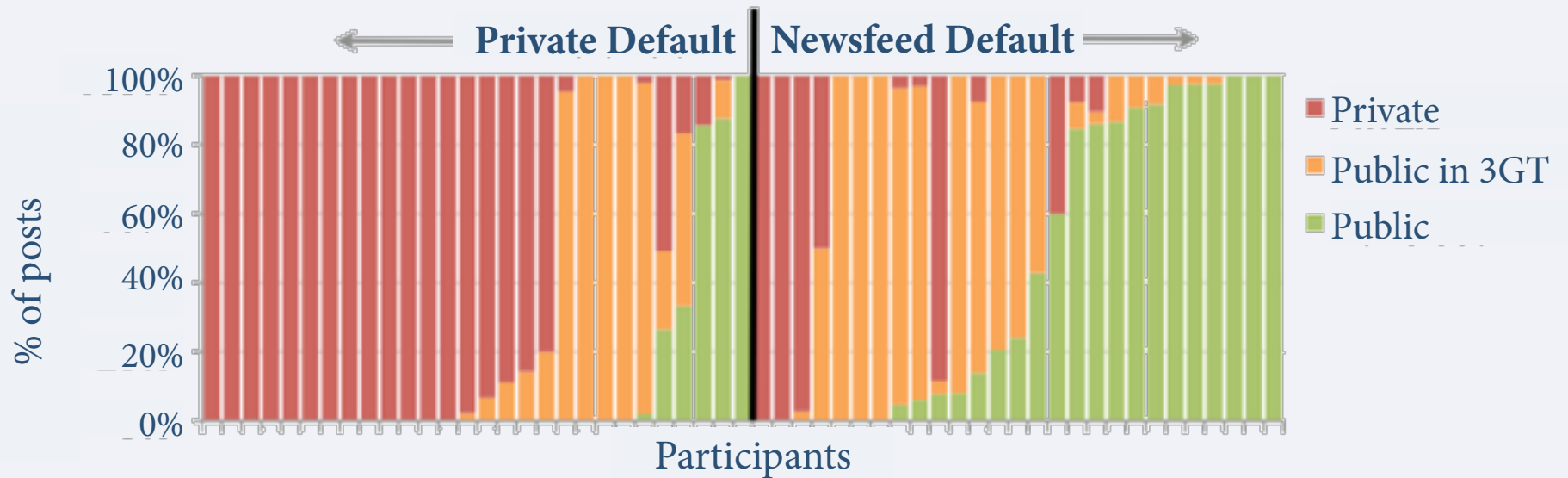
Munson SA, Consolvo S. (2012). "Exploring Goal-setting, Rewards, Self-monitoring, and Sharing to Motivate Physical Activity," *Pervasive Health* 2012.



# *Results*



## 3GT | *by the numbers*



posted to newsfeed

21%

40%

visible to friends in 3GT

23%

45%

private

56%

14%

**NO IMPACT** on  
post frequency or  
retention.



## GoalPost | *by the numbers*

**10** out of 12 shared at least once, but...

**4** shared with only an empty support group

*still* limited by fears of violating norms, revealing weaknesses, or appearing boring or boastful.

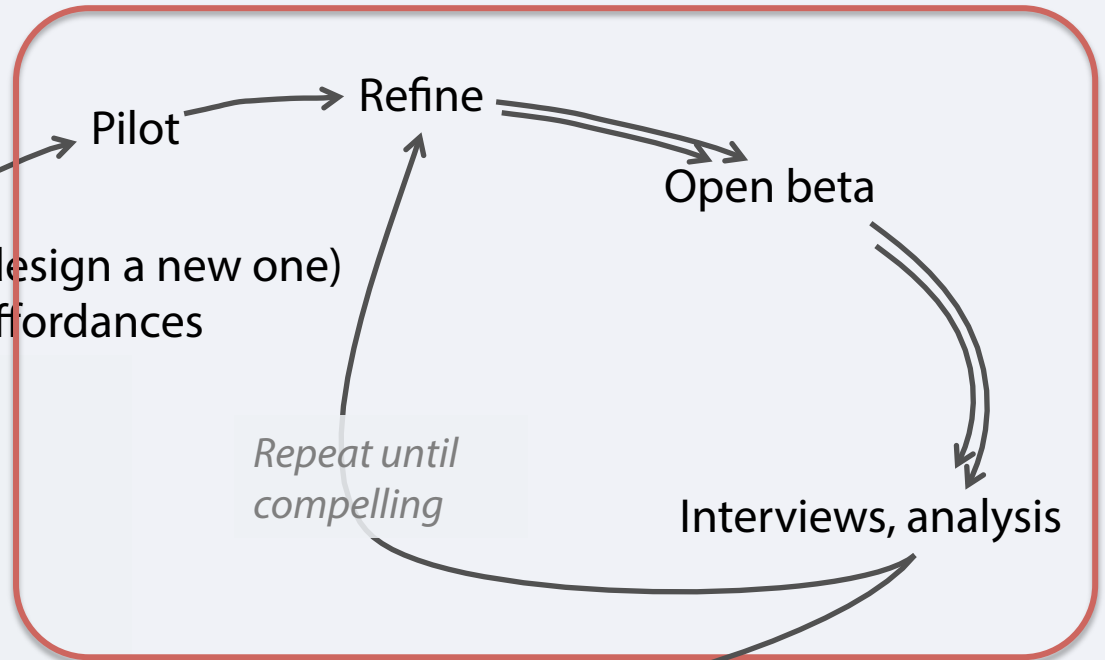
**3** configured a support group



Adapt an intervention (or design a new one)  
to leverage the Internet's affordances

Controlled field trial

Causal inferences



## SHARING AS A NUDGE

### **Receive:**

- emotional support
- accountability & motivation
- advice
- impression management

### **But face challenges with:**

- building, shaping, and selectively accessing one's network
- risk of violating norms
- managing impression while meeting health needs



## LIMITED SHARING...



**Just completed a 8.12 mi run with RunKeeper**

Duration 1:10:46 | Calories Burned 1281

Average Pace 8:43 / mi | Average Speed 6.88 mph | Elevation Climb 544 ft



Like · Comment · Track your fitness · 38 minutes ago via RunKeeper · 

## LIMITED SHARING...

for fear of violating norms, revealing weaknesses, or appearing boring or boastful.

## LIMITED SHARING...

for fear of violating norms, revealing weaknesses, or appearing boring or boastful.

“Mostly when I make things private, it’s more because I think they’d be boring or insignificant to my friends, not because they’re actually things I wouldn’t want my friends to know about. I just don’t want to clog up their Facebook with it.... A lot of the people I’m friends with wince about having games and other non-status update things all over their pages. **And so I don’t want to get winced about.**”

– 3GT participant

## LIMITED SHARING...

for fear of violating norms, revealing weaknesses, or appearing boring or boastful.

“It's just kind of embarrassing to me... I jogged for 20 minutes today, let me tell 200 people, many of which I haven't talked to in years ... **Who cares?...** I don't want to share with someone that I, you know, they comment on it, oh yeah I ran a marathon, good to go 20 minute runner guy.”

– *GoalPost participant 12*

GOALPOST USER: I'm really depressed. If Facebook can't save me, I don't know what will help me lose weight.

RESEARCHER: Did you think Facebook was going to help?

GOALPOST USER: I thought it was going to save me, yeah.

RESEARCHER: Did it?

GOALPOST USER: No. And I'm so discouraged.

## BUT WANTING SOMETHING SOCIAL

of the 55 active 3GT participants... **24** invited friends

**25** looked at friend profiles

of 4188 3GT pageviews... **660** were of a friends' Good Things

**1 of 12** GoalPost users found a new exercise partner & started going to the gym more.

## BUT WANTING SOMETHING SOCIAL

**“I got a TON of comments....** Lots of people said they liked that, and they responded to that and congratulated me... so yeah, people do definitely comment on them when they are created from Facebook and publicized [in newsfeeds].”

– *3GT participant*

## BUT WANTING SOMETHING SOCIAL

**“It would have been cool to have somebody reacting** to, like you said, the sort of social interaction over the content of the posts that I’ve done... To have some of these things – “oh, I see you posted something”, or just some reaction. Because sometimes it feels like you’re out there, putting stuff out in the world and you’re not getting any feedback, you know?”

*- 3GT Participant*





## GoalPost | *sharing: support group*

Because she's **accepting** and she wouldn't get sick of my posts. When we were talking about this and choosing a support group, all I could think of was that *Farmville* thing where I'm always seeing that someone has a cow. **That is so annoying. I didn't want to annoy another person.**

– GP7



## *GoalPost | sharing: support group*

... my friend liked my post, my *GoalPost*, and that **made me feel good that she was at least looking at it.**

She was **the only one** out of my whole support group that looked at it.... I only got responses from my one friend that was here locally, even though I told [my support group] about it.

**So I was kind of bummed. I was disappointed in my friends... it'd be really awesome if you could, you know, support me or help me do that when I post things. Nobody cared.**

– GP11

# How can social software best support health & wellness?

Using health & wellness applications as experiment sites, what can I learn about theories of influence?

## Outline



v2

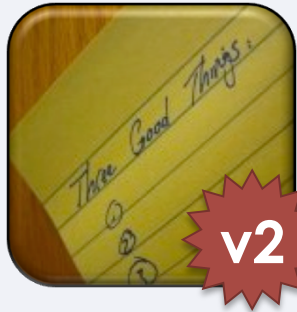


**Current work:** Moving beyond the share button.

- Improved sharing & efficacy evaluation
- Social goals & Commitments



**appropriate**  
**“selfcasting”** >> **privacy**



# 3GT

Social variation of positive psychology exercise around recording everyday good things.

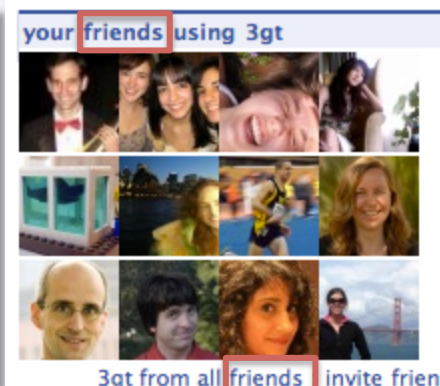
facebook

### Good Things

Good thing:

Why did this happen:  
(Always private)

Privacy & publicity:



- ### Recent Good Things from You
- April 18
- another round of happy class nostalgia v malcolm invited me, I moved my mee
  - 4.5hr of #si182 office hours makes me v the course has come. Nice job @presnic Eytan invited me; I had invited him w
- April 16
- 1 somewhat successfully sort of died pa

**Sean Munson**  
logout

**769** GOOD THINGS **0.8** PER DAY

YOUR TOP GOOD THING WORDS  
3gt alex aston day delicious dinner  
finally fun **good** great hike last  
made more new night out run time up

YOUR TOP REASON WORDS

### Post a Good Thing

Good thing:

Why it happened:

Public:

Post to Facebook wall:

### Good Things

You · Everyone

**Nancy Munson** 0 cheers (Cheer) comments 10 hrs  
Got a very cool pair of running shoes that should be my Boston shoes!



# Commit to Steps

## A test of public commitments.

with Paul Resnick, Caroline Richardson, Erin Krupka, & Michelle Draska



### 1. Make your commitment.

I will walk at least  on  or more days this week.

### 2. Share.

[Change sharing settings](#)

*Email & post this to my timeline when my commitment begins:*



**{{Name}}** made a Steps commitment.

Please encourage me, or better yet, walk with me!

*After one week, email and post this...*

*... if I succeed:*



**{{Name}}** kept a Steps commitment.

Whew, made it!

I met my Steps goal by walking at least  steps  this week.

*... if I succeed:*



**{{Name}}** didn't keep a Steps commitment.

:( Push me to do better next week!

I walked more than  only  this week,  than my commitment.

**Make my commitment**



# Commit to Steps

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### 1. Make your commitment.

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*After one week, email and post this...*

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**{{Name}}** kept a Steps commitment.

I met my Steps goal by walking at least  steps  this week.

*... if I succeed:*



**{{Name}}** didn't keep a Steps commitment.

I walked more than  only  this week,  than my commitment.

**Make my commitment**

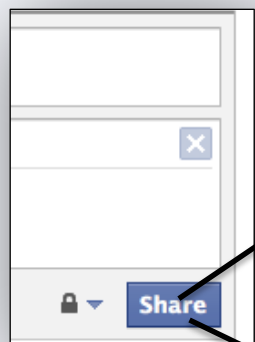
# **Additional future challenges**



# Additional future challenges

## FeedRank algorithms

(Facebook already is doing this.)

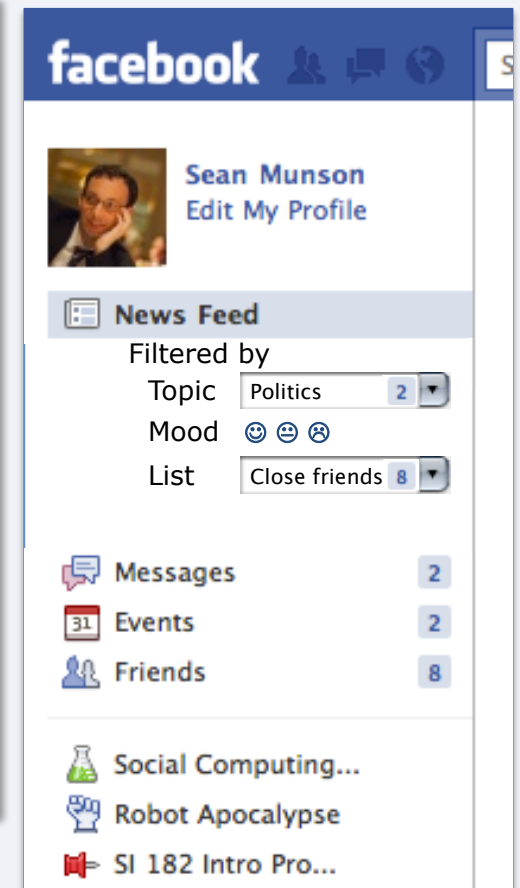
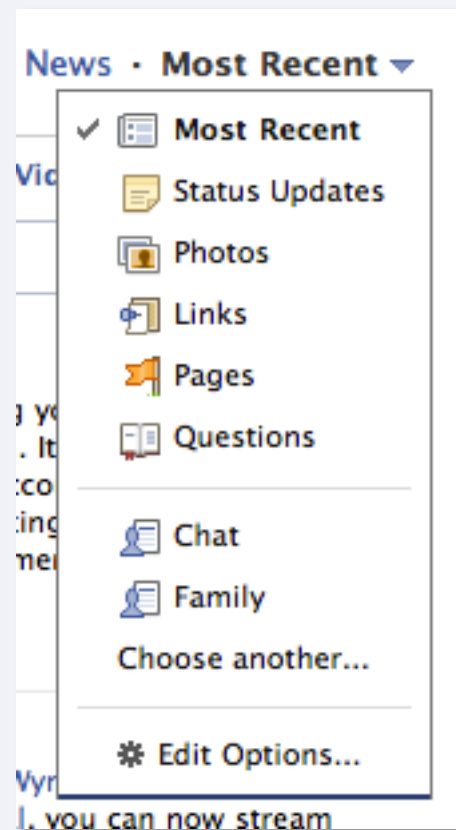


Support-seeking post



## Topic or need-based lenses

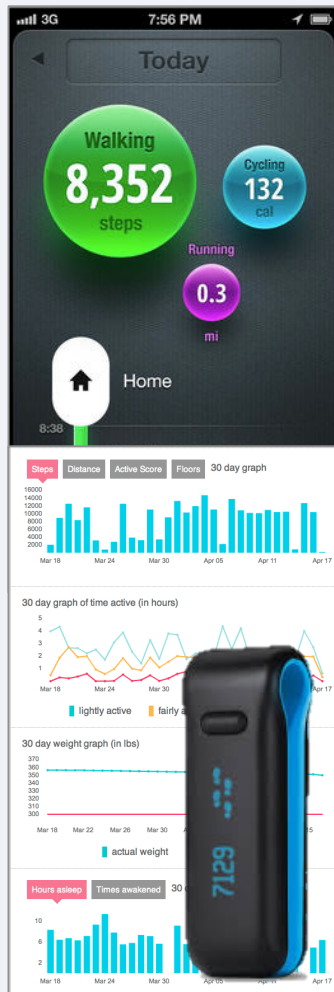
(e.g., Gilbert et al, *We Meddle*; Facebook lists, Google+ circles)



# Additional future challenges



## Taming Life logs



—————> self\*

—————> peers\*

—————> friends & family\*

—————> clinicians+

*\*with Daniel Epstein, Felicia Cordeiro, Liz Bales, and James Fogarty  
+ with Allison Cole, Kerry Reding*

# Additional future challenges

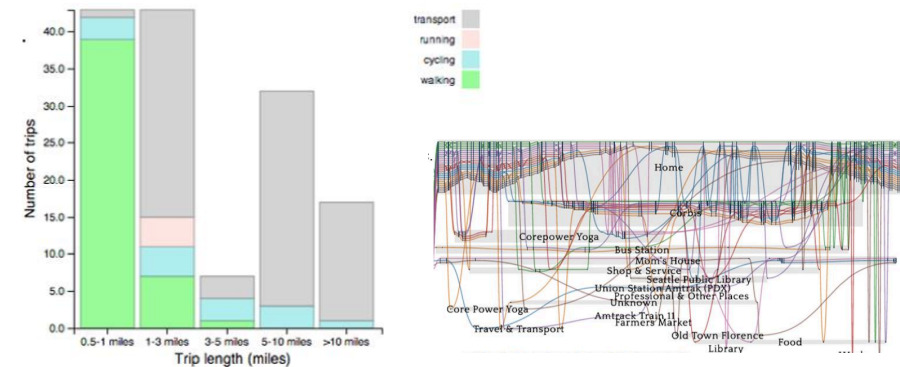


## Taming Life logs



self\*

- why are we collecting all of this data, anyway?
- how to make patterns and anomalies actionable?



\*with Daniel Epstein, Felicia Cordeiro, Liz Bales, and James Fogarty  
+ with Allison Cole, Kerry Reding

# Additional future challenges



## Taming Life logs



- what data is useful? How should it be presented?
- who?
- how can it integrate into clinical workflows?
- .... and then there's EHR integration.

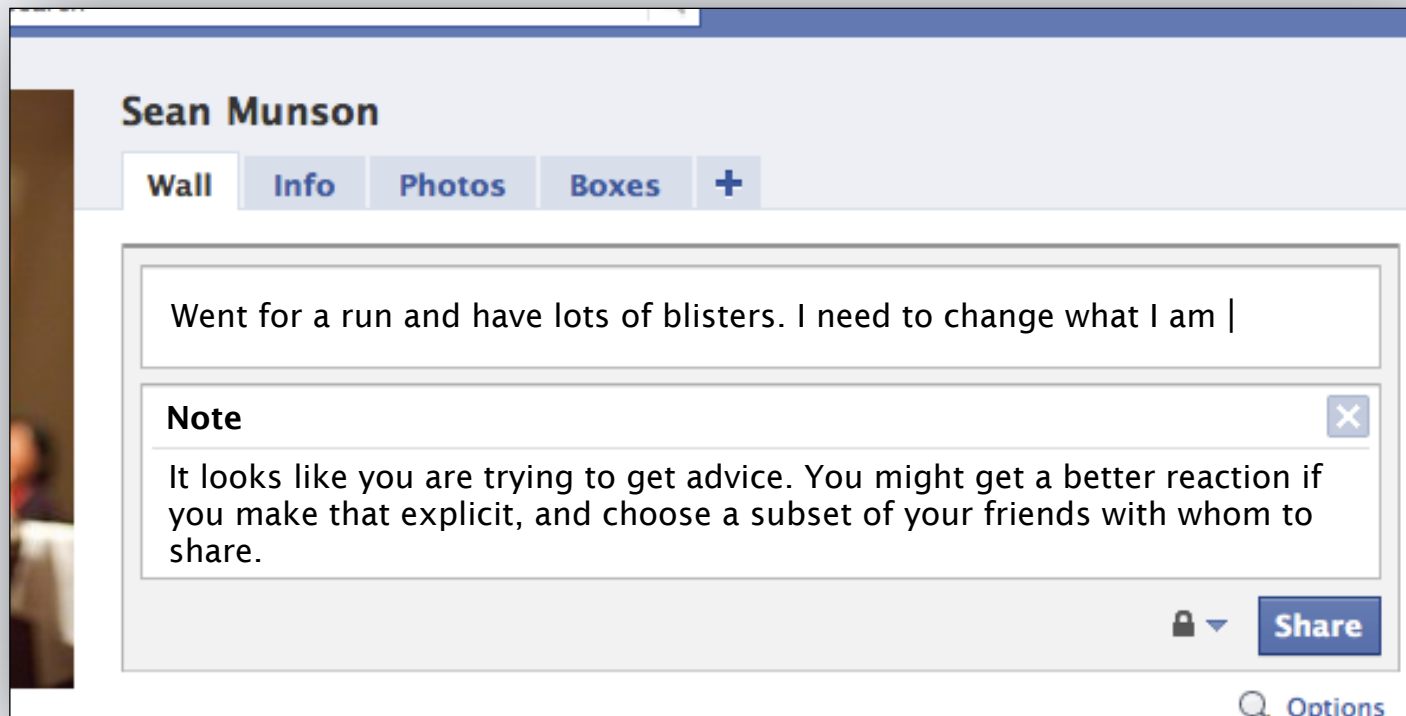
clinicians<sup>+</sup>

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+ with Allison Cole, Kerry Reding*

## **Additional future challenges**

- Getting the **right content** in front of the **right people**, in the **right format**.

# Additional future challenges

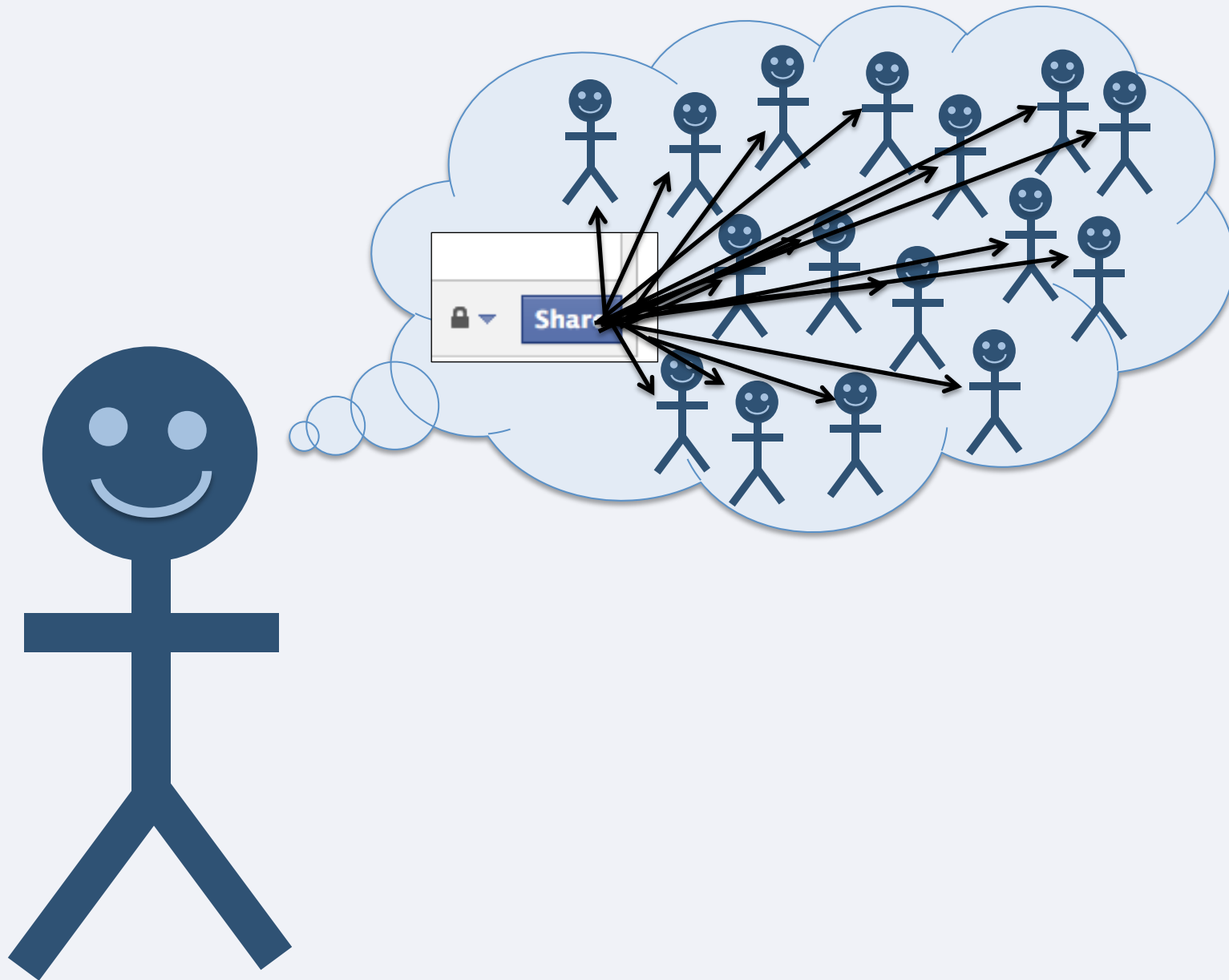


In Q&A forums: Burke et al.

## **Additional future challenges**

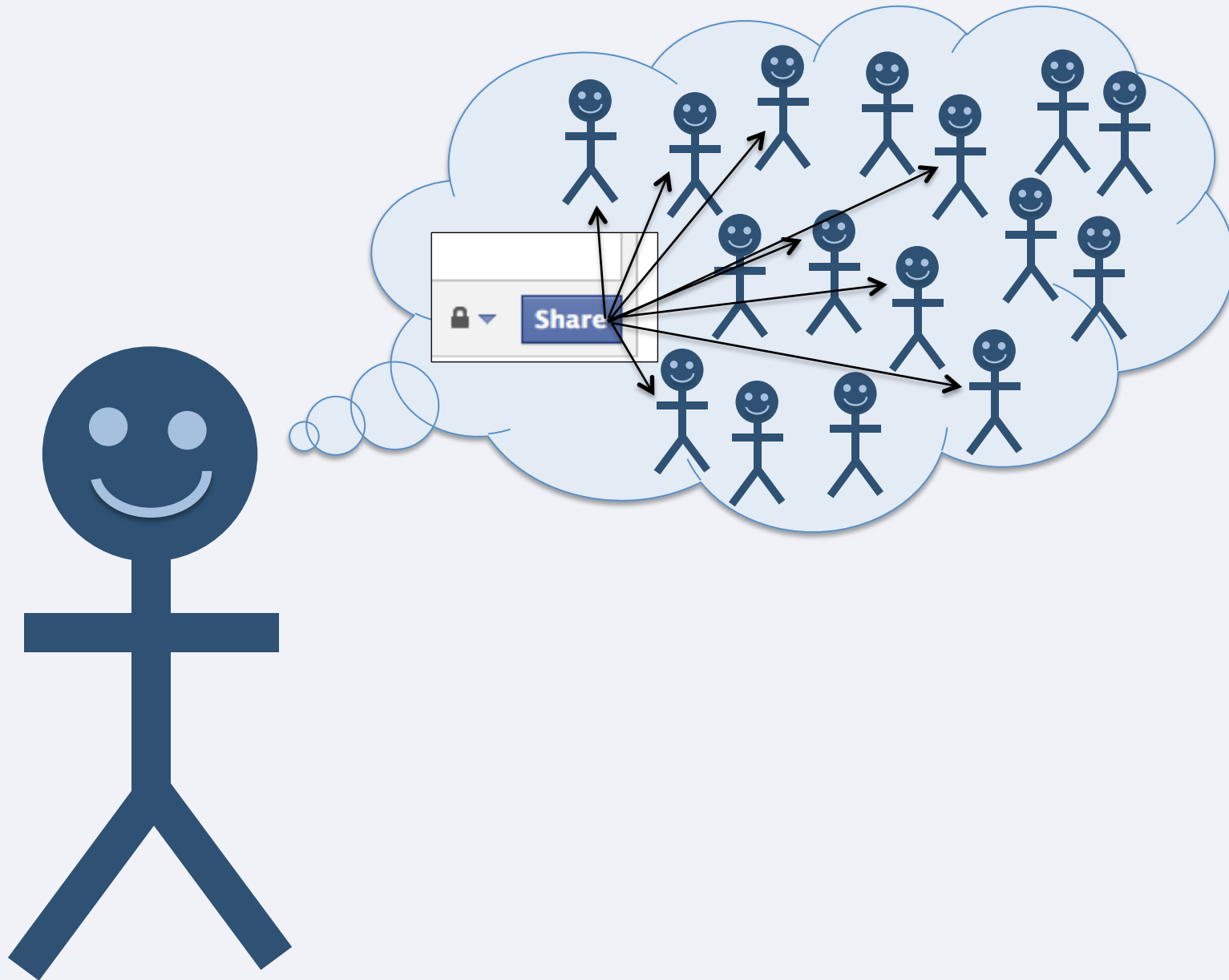
- Getting the **right content** in front of the **right people**, in the **right format**.
- **Coaching people** on
  - Writing their posts.
  - Replying to others

# Additional future challenges





# Additional future challenges



## **Additional future challenges**

- Getting the **right content** in front of the **right people**, in the **right format**.
- **Coaching people** on
  - Writing their posts.
  - Replying to others
- Helping users have **correct mental models** of the feed.

# Additional future challenges

Explore My SparkPage: [MAIN](#) [PHOTOS](#) [FEED](#) [BLOGS](#) [AWARDS](#) [MORE](#)

**Finally ready**  
I have tried countless times to lose weight and get healthy. I am finally ready to put myself first and make my health a priority.

**SparkFriends**

Welcome To SparkPeople!

**Maintaining Success**

My hiking companions

**SparkTeams**

Official 28-Day Bootcamp Workout Challenge | Official Healthy Cooking Challenge | Singles Losing Weight

I Deserve a Treat Because... | York County, PA | 50+ members with 50-99 pounds to lose

**Profile**  
Member Since: 1/8/2009  
SparkPoints: 5,290  
Fitness Minutes: 4,090

**My Goals:**  
My goal is to be as healthy as I can be. I want to incorporate healthy habits into my lifestyle so that doing what is best for me becomes automatic.

**My Program:**  
I am trying to eat a whole food diet as much as I can. I am avoiding

**Recent Blogs:**  
6/18/2010: I think I am a runner  
6/15/2010: Facing my fears  
6/11/2010: This time really is different.

[See More Blog Entries](#)

**Community Actions:**  
Add As SparkFriend  
Send SparkMail  
Leave Comment  
Recent Message Board Posts  
Shared Food & Fitness Trackers  
I'm Looking For A SparkBuddy!

## Community Contact

- **SparkPeople Cafe** 1,059,977 Posts (Last: 3/20/11 2:51 A)
- **Introduce Yourself** 218,951 Posts (Last: 3/20/11 2:37 A)
- **SparkPeople Challenges** 357,289 Posts (Last: 3/20/11 2:53 A)
- **SparkPeople Fast Break** 221,027 Posts (Last: 3/20/11 2:53 A)
- **SparkPeople Game Room** 9,240,204 Posts (Last: 3/20/11 2:53 A)

## Support Groups

- **Getting Fit Over 50** 244,924 Posts (Last: 3/20/11 1:33 A)
- **Brides and Grooms To-Be** 4,777 Posts (Last: 3/19/11 2:50 P)
- **The Guys' Lounge** 44,775 Posts (Last: 3/19/11 11:39 P)
- **Parenting and Family Support** 68,932 Posts (Last: 3/20/11 12:38 A)

## Additional future challenges

- Getting the **right content** in front of the **right people**, in the **right format**.
- **Coaching people** on
  - Writing their posts.
  - Replying to others
- Helping users have correct **mental models** of the feed.
- **Rich profiles** that protect privacy and do not require substantial additional work.

# How can social software best support health & wellness?

Using health & wellness applications as experiment sites, what can I learn about theories of influence?



**Existing social network sites** offer relevant support, accountability, a chance to communicate a healthy identity, and a way to connect with activity partners.

**Barriers** to effectively using them for health goals include norms, getting the right kind of support, and connecting with the right people.

## Current work:

- Improved sharing & efficacy evaluation
- Goals & commitments
- Sensemaking & life logs

**DRG on this every quarter.**  
Come join us!

***thanks!***

Sean A. Munson

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@smunson

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Caroline Richardson  
Sunny Consolvo  
Jeremy Canfield  
Brian Ford  
Peter Andrews  
Erin Krupka  
Allison Cole  
Christina Chung  
Daniel Epstein  
James Fogarty  
Felicia Cordeiro  
Liz Bales

## Funding

Intel sponsored research & PhD Fellowship  
University of Michigan Rackham Graduate  
Program – Research Grant

## Want to work on this?

Apply to join my Directed Research Group  
next quarter!

more at slides & references at [smunson.com/talks/hcde521a13](http://smunson.com/talks/hcde521a13)

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