

How to Motivate & Persuade Users



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Instructor Biographical Sketch

The material I'm presenting in this tutorial comes from what I teach in my courses and workshops at Stanford University, where I've been appointed to the consulting faculty in the Computer Science Department and in Stanford's School of Education. In my academic roles I teach two or three courses a year for HCI graduates and undergrads. In addition to my teaching, I direct the Stanford Persuasive Technology Lab, a research and design center focusing on how to motivate and influence people using computing technology (see captology.stanford.edu). My research on persuasive technology extends back to 1993 and includes lab experiments, field studies, artifact analyses, design projects, and more.

In addition to my Stanford work, I also am involved in industry. I've done HCI-related work for HP, Interval Research, Sun, and most recently Casio Research, where I directed research and innovation for the U.S.

Currently, I run my own consulting business that focuses on helping organizations create persuasive technology products to improve people's lives. My industry work helps me to understand what practitioners need in their day-to-day work, as well as to know what aspects of theory and research practitioners find helpful.

I've published articles on persuasive technology for CHI and other audiences. Recently I wrote a book on computers and persuasion, *Persuasive Technology: Using Computers to Change What People Think and Do*, published by Morgan Kaufmann (you'll find the book's website at www.persuasivetech.info).

I work a lot, mostly because I enjoy it, but I also find time to do other things. I compete in masters swim meets, I sculpt and paint the human form, and I eat lots of mustard. For the past two years, I've been teaching myself to play the guitar, and I recently inherited the old piano I practiced on for what seemed like thousands of hours as a child. I must admit that I like playing guitar much more, though my dog prefers me to play the piano.

I grew up in an American subculture that was unusually rich in both persuasion and technology, so putting these two worlds together was a natural as I began my doctoral work. Captology, the study of computers as persuasive technologies, is an area that completely fascinates me.

Agenda

Approx. Time	Topics and Activities
6:00	Welcome and overview of tutorial
6:05	Introduction to persuasive technology (slides 1-17)
6:25	Designing for persuasion, Part 1 (slides 17-20)
6:30	Designing for persuasion, Part 2: team project (slides 20-21)
6:55	Designing for persuasion, Part 3 (slides 23-31)
7:05	Seven ways tech tools persuade (slides 32-42)
7:18	Team exercise: Motivating persistence in e-learning (slides 43-44)
7:40	Break
7:55	Break or optional module: Mobile persuasion (slides 67-71)
8:05	Welcome back
8:07	Three ways simulations persuade (45-48)
8:25	Seven ways social actors persuade (slides 49-56)
8:45	Team design project: Avoiding UV rays (slides 57-58)
9:05	Ethics of using computers to influence people (slides 59-64)
9:20	Future trends in persuasive technology (slides 65-66)
9:30	End of tutorial

Objectives of the Course

- To understand how persuasion is relevant to websites, desktop software, & mobile platforms.
- To see how influence strategies are used in a wide variety of interactive products, both familiar (like Amazon.com) and unusual (like Baby Think It Over).
- To learn the seven ways computers persuade as tools.
- To learn the three ways computers persuade as simulation media.
- To learn the seven ways computers persuade as social actors.
- To learn techniques for designing persuasive interactions.
- To begin to see how persuasion plays a role in e-learning.
- To become sensitive to some of the major ethical issues of persuading via computing products.















Designing for persuasion

Designing interactive experiences that influence

- Begin with an influence analysis
- Generate ideas using the functional triad
- Learn from best-in-class examples



Designing for persuasion

Influence analysis How to do influence analysis? Phase 1 --> outline landscape 1. Draw two columns 2. List all desired attitudes and attitude changes 3. List all desired behaviors and behavior changes Phase 2 --> identify targets 1. Identify what's possible to change via technology 2. Identify what matters most Phase 3 --> propose solutions 3. Look at best-in-class examples and adapt them 3. Create rapid prototypes --> iterative user testing 4. Repeat Step #1 of Phase 3 with a new item

Designing for persuasion

Practicing influence analysis

Scenario

A consumer advocacy group has hired you to help create a financial management website for girls 12 to 15 (or alternatively, *Quicken Junior*).

Client Goal

To teach financial responsibility

Work in teams for 10 minutes

- Self organize in teams of three
- Work through Phase 2 of influence analysis
- Get ready to report back to group









Future of captology

Six emerging trends

- 1. Pervasive persuasive technologies
- 2. Growth beyond buying and brandinghealthcare, education, safety
- 3. Increase in specialized persuasive devices
- 4. Focus on influence strategies
- 5. Focus on influence tactics
- 6. Mobile persuasion

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Ethics





