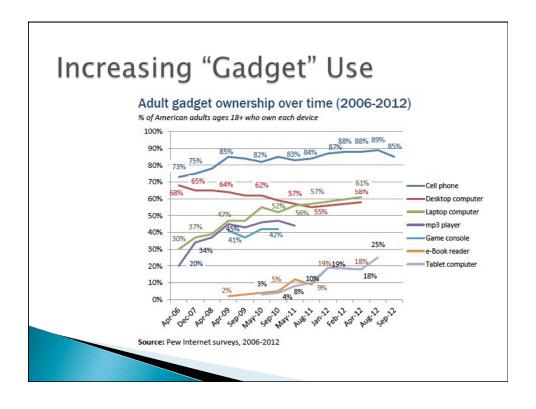


Agenda

- Background and Motivation
- Course Goals and Structure
- Example Curricula
- Lessons Learned



Knowledge Needs

- Two types of knowledge requirements
 - Task or process
 - "Gadget" interface and technical framework
- Example: email using a tablet computer
 - Task: how to access, create, send, read, manage
 - Gadget: icons, touchscreen, keyboard, connection

Course Goals

- Explain fundamental technologies underlying popular consumer gadgets
 - Connections, files, interfaces, etc.
- Guide participants in identifying their goals for using technology
 - · Communication, entertainment, organization, etc.
- Help participants find appropriate solutions
 - Single-purpose and multi-function "gadgets"

Course Structure

- Evolved over three offerings
 - Initially, two class sessions and a field trip
 - Adapted for one-hour "brown bag"
 - Final version: two longer lectures, no field trip
- Offered as non-credit, personal enrichment
 - Approximately 75 total participants
 - About half were at or near retirement age
 - Mixture of MSU employees, community members

Curriculum Outline

- Introductions
 - Evolution of the "Gadget Avalanche"
- Tech Terms
 - Connections (Wi-Fi, 3G/4G)
 - Cloud Computing
- Devices and Applications
 - What can you do?
 - What do you want to do?
 - How to do what you want to do?

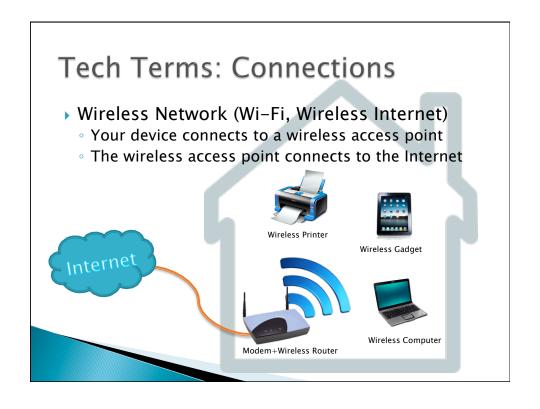
Introductions

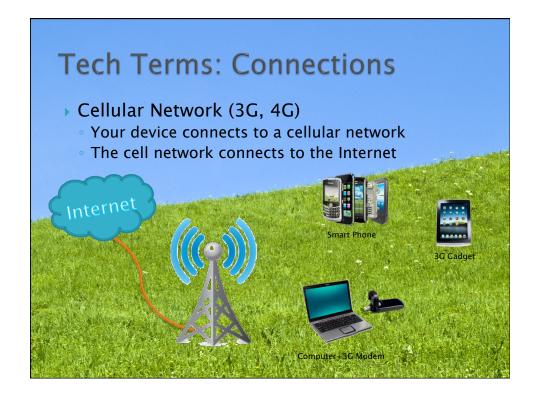
- Participants shared background and goals
- Instructors shared personal "gadget history"
 - Demonstrated evolution of gadgets over time
 - Grounded course in gadgets familiar to participants
 - $\,{}^{_{\odot}}$ Focused on \underline{tasks} rather than specific devices
- Participants' questions and feedback helped guide instructors' focus during the course

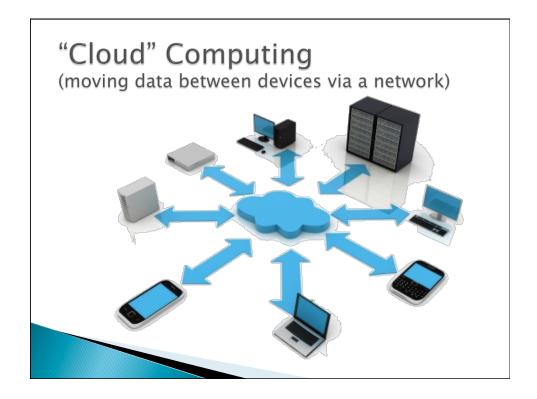


Tech Terms

- Connections
 - Wireless networks (building-based)
 - Cellular networks (broader coverage)
- Cloud Computing
 - Where is information stored?
 - How is information accessed?
 - Where is the Internet, anyway?
- Concrete Examples







What is the difference?

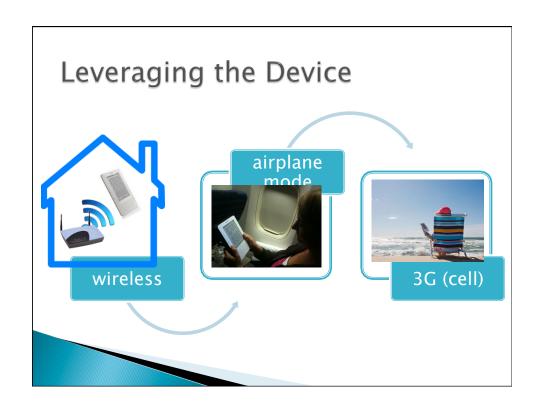
Cloud

- Need Internet to access
- Unlimited storage
- Built-in Backup
- Data accessible from
 Data accessible only multiple devices
- Easy to share data

Device

- Access anywhere
- Limited memory
- You must backup
 - on the device
- ▶ Easy to share device





Goals for Using Gadgets

- Stay Connected
 - Email, text messages, phone/video calls
 - Photos: taking, sharing, printing
 - Social Media: facebook, twitter, blogs
- Consume Media
 - Reading, watching tv/movies, listening to music
 - Games
- Getting Organized
 - Calendar, to-do lists, contacts, documents, notes
 - GPS, navigation, maps

Comparing Apples to Androids

Apple (iOS)

Hardware

- Reliable, well-designed
- Limited choices
- Expensive

Software

- Only from iTunes
- Prescreened
- Some limits (no flash)
- Intuitive interface

Android

Hardware

- Many options, prices
- Few standards
- Expandable memory

Software

- Apps from Google, amazon, etc.
- Flash available
- Variations in interface, design, reliability, quality

But what about "apps"?

- Short for "applications"
 - Small(ish) programs that support specific tasks
 - Allow you to customize your device

Lessons Learned

- "Gadget History" was perfect introduction
 - Grounded course in participants' experiences
- > Explain Connections and the Cloud
 - Concrete examples were invaluable
 - Lots of "aha" moments among the audience
- Flexible "Show and Tell"
 - Most participants brought their own devices
 - Trying new apps and new devices was very popular

