16. Inclusive Security & Privacy

Blase Ur and Mainack Mondal
May 16th, 2018
CMSC 23210 / 33210
Ability
Discuss “I’m Stuck” paper

• Contextual inquiry
• Recruitment
• Findings
Discuss Undocumented paper
Crucial considerations

• Cognitive impairments
  – Illiteracy
  – Memory difficulties

• Visual impairments
  – Sightedness
  – Color-blindness

• Dexterity impairments

• Hearing impairments
The importance of “alt” text

• `<img src="dog.jpg" alt="picture of dog" />`

• This is what screen readers use!
The importance of video captions

Add your own subtitles & closed captions

Subtitles and closed captions open up your content to a larger audience, including deaf or hard of hearing viewers or those who speak languages besides the one spoken in your video. If you already have captions or subtitles, get help editing or removing existing captions.

1. Go to your Video Manager by clicking your account in the top right > Creator Studio > Video Manager > Videos.
2. Next to the video you want to add captions or subtitles to, click the drop-down menu next to the Edit button.
3. Select Subtitles/CC.
4. Click the Add new subtitles or CC button.
5. Choose how you want to add or edit subtitles or closed captions to your video:
   - Create subtitles or closed captions
   - Upload a file
   - Transcribe and auto-sync (original video language only)
   - Use automatic captioning
The importance of fonts and text

- Websites / apps should still work when magnified to a large size
- Don’t use color to convey meaning
  - Screen readers do not interpret it
- High-contrast color combinations
- Don’t include placeholders in form fields
- Make form fields easy to find
Readability

• Standard metrics for the grade level of text
  • https://en.wikipedia.org/wiki/Readability#Popular_readability_formulas
  • https://www.online-utility.org/english/readability_test_and_improve.jsp
Conducting accessibility studies

- Don’t forget to user test with diverse populations that accurately reflect all users
- https://www.youtube.com/watch?v=t4DT3tQggRM
Age
Why is 13 the magic number?

How old do you have to be to sign up for Facebook?

To be eligible to sign up for Facebook, you must be at least 13 years old.

Last edited over a year ago
COPPA (1998; took effect 2000)

• Children’s Online Privacy Protection Act
• Parental consent required for collection or use of personal information
  – Service directed to children under 13
  – Knowledge that user is under 13
• How does one obtain parental consent?
  – FTC suggests credit card, phone call, etc.
Hello Barbie

Privacy fears over 'smart' Barbie that can listen to your kids

Campaigners call for ban on Mattel doll that uses voice-recognition technology to respond to children's questions - and send recordings to third parties

Hello Barbie

• “In Mattel’s demo, Barbie asks many questions that would elicit a great deal of information about a child, her interests, and her family. This information could be of great value to advertisers and be used to market unfairly to children.”

• “The conversation capabilities of the Hello Barbie toy from Mattel are powered by a venture capital-backed San Francisco startup called ToyTalk, which receives and interprets speech recorded by a microphone in the doll before initiating a pre-programmed vocal response. Crucially, the data is stored by ToyTalk for use beyond the immediate response.”

Senior citizens

• How can we better help older adults?
• Knowledge of technology → implications
• Particular vulnerability to scams
• Opportunities for connecting seniors
Culture / geography
Cross-cultural issues

• What is culture?
  – National origin?
  – Demographics?

• Why does culture matter in research?
  – Social norms / user expectations
  – Legal requirements and expectations
  – The availability of systems / structures
  – Media portrayals
Your stories
Social media is global
Translating privacy
Translating privacy

For mobile apps without the inline audience selector (such as Facebook for Blackberry), the audience for things you post is:

- **Public**
- **Prietenii**
- **Personalizat**

**Cum intrați în legătură cu alții**
Control how you connect with people you know.

**Timeline and Tagging**
Control what happens when friends tag you or your content, or post on your timeline.

**Reclame, Aplicații și Website-uri**
Gestionează-ți setările pentru reclame, aplicații, jocuri și sǎturi.

**Limitează audiența pentru postările anterioare**
Limit the audience for posts you shared with friends of friends or Public

**Persoane și aplicații blocate**
Manage the people and apps you've blocked.
Translating privacy

This setting will apply to status updates and photos you post to sites that don't have the inline audience selector, like Facebook for BlackBerry.

Cookies: Like many websites, we use "cookie" technology to help improve our Services, but we do not require cookies for normal looking at public user profiles or lists. A cookie is a small...
Translating privacy

การสวิตส์ แสดงสื่อที่อาจมีเนื้อที่ออกในระหว่างการสื่อสาร ทำการล็อกน้อยไว้ไว้สำหรับผู้ที่มีเนื้อที่ออกในระหว่างการสื่อสาร
หากคุณมีวิธีการหรือวิธีการอื่นๆที่อาจมีเนื้อที่ออกในระหว่างการสื่อสาร โปรดเลือกที่จะตัวเลือกนี้เพื่อที่จะบันทึกข้อมูลที่คุณเลือกจะได้รับการคุ้มครองเริ่มต้นสื่อของคุณ

ความเป็นส่วนตัวของผู้ใช้ ป้องกันทรัพย์ของลูก
If selected, only those you approve will receive your Tweets. Your future Tweets will not be available publicly. Tweets posted previously may still be publicly visible in some places. Learn more.

การทำให้เป็นส่วนนู่บุคคล ปรับแต่ง Twitter based on my recent website visits
Preview suggestions tailored for you (not currently available to all users). Learn more about how this works and your additional privacy controls.

HTTP ทำให้ ใช้ HTTPS เสมอ
ใช้การเข้าถึงแบบปลอดภัยเมื่อใช้เว็บ

รีเซ็ตรหัสผ่าน  Require personal information to reset my password
By default, you can initiate a password reset by entering only your @username. If you check this box, you will be prompted to enter your email address or phone number if you forget your password.
Translating privacy

For mobile apps without the inline audience selector (such as Facebook for Blackberry), the audience for things you post is:
Translating privacy

Twitter does not disclose personally identifying information to third parties except in accordance with our Privacy Policy.

A Twitter oszt meg személyes azonosításhoz használható információkat harmadik féllel, kivéve az Adatvédelemi Irányelveket a leírt eseteket.

Posted by kkemenczy on July 08, 2012

A Twitter nem oszt meg személyes azonosításhoz használható információkat harmadik féllel, kivéve az Adatkezelési Nyilatkozatban leírt eseteket.

Posted by mazvazzeg on November 02, 2011
Translating privacy
Mobile money

How to get started with M-Pesa

Visit any authorised M-PESA agent and get registered

You will receive an SMS confirming your registration

Now you can

- Send and receive money
- Receive cash through Western Union
- Pay all your bills
- Purchase airtime
Mobile money
Logistics of International Studies

• Where is your sample coming from?
  – Comparable samples?
  – Recruitment?

• Identity of moderator
  – Language? (Parallel translations)
  – Understanding cultural context
  – Best practice: partner with local collaborators

• Ethics considerations