CS377Q: Today's goals

- Guest lecture: Accessibility research
- Designing presentations
- Assign P5
- User study data analysis



Guest lecture: Jingyi Li

- Ph.D. candidate, Stanford University
- Research in Accessibility



User study expenses

- For reimbursement for your team's user study expenses
- Consolidate into 1 person per team
- Provide an amount and explanation of the expenses in a request to Trijeet's Venmo ID: trijeet-mukhopadhyay
- Please make request by June 3

P5: Project Fair

- 3-minute lightning talk
- Poster
- Demo

P5: Project Fair schedule

- Project Fair Schedule, Monday, June 3, d.school atrium
- 5:30-6:00 Student set up in
- 6:00-6:40 Class intro, 3-minute team pitches
- 6:40-7:45 Food and Open House
- 7:45-8:00 wrap up

P5: Lightning presentations

- 3 minutes
- Make sure you introduce team name and members
- ID problem (skit, video)
- Explain novelty of approach
- Demo clip of prototype
- Can be a mix of live action and recorded video

P5: Project Fair demo

- Demonstrate prototype
- Setup a task that people can accomplish in about 1 minute
 - Like running a quick user study with them
 - Let them manipulate the prototype
 - Consider imposing an appropriate disability to experience the prototype
- Consider inviting person with disability to come for demo
- Share what was learned from user study
 - Include user study data on poster
- Jurors and public virtual investing exercise

P5: Poster

- Project name and names of all the team members.
- User need: The problem it's addressing
- Solution: Perhaps show a main screenshot of the prototype
- User study data: Evidence from the user study demonstrating what you learned from the study
- Good visual design—help people decide if they want to engage with you for more info
- Examples (assignment statement)
- Email a draft, Saturday, 12 noon, we'll give feedback by Saturday eve.

Hi, I'm Artbot.

Your antagonistic, artful companion.

Vincent Nicandro, Casey Wong, Zach Goodale, & Lexi Stein

The problem

The idea that art is precious and needs to be perfect, stifling creativity.

The process







The solution

An app designed to improve your creative adaptability.



made with love by Team Articulate in Stanford, CA · stanford.io/2SpXhQ1



Improving the Accessibility and Quality of Perinatal Health Services in Rural Hawaii

The Hausii Collaborative Health Initiative (HI-CHI)



Introduction to HI-CHI

- * HII-CHI is a project of Priends of the Pattern, a 5016c) 3 nonprofit corporation that houses 11 community-based health and wellmass related programs in Harmin County.
- * The Hawaii Collaborative Health Initiative (HI-CHI) was created by a group of health care providers who came together in 2009 to develop strategies for improving essential maternal child health care services in Hawaii County.
- Through the HRSA Baral Health Network Development Planning Grant, HI-CHI has worked to develop organizational infrastructure during 2013 to every out network activities for Neonatal Response Teams (NRTs) and perinatal quality improvement throughout the rural areas of the state.

HI-CHI Vision

Accessible, high quality maternal and infant healthcare for rural areas of Hawait

HI-CHI Mission

To improve the accessibility and quality of health services for methen and infants in rural areas of Hawaii through education and decilitating collaboration between health facilities, healthcare providers, and the community.

HI-CHI Goals & Objectives

Geal 1: To encourage rural birthing hospitals in the state of Hawaii to work collaboratively to enhance patient safety, meet national guidelines, and share new ideas to improve baskhoare.

Objective:

- 1.Develop in-brow neorotal regid response or researchation teams to resuscitate and atabilitie sick newborns until the pediatrician arrives. This will improve patient infety and allow hospitals to meet national Neonatal Resoscitation Program guidalinas
- Geal 2: On-going healthcare quality improvement for mothem and indom.

Objectives:

- 1. Support state-wide gaslity improvement initiatives that address gaps in rural beakh outcomes for mothers and infants through coordinated training and educational activities that build capacity of healthcare providers in rural areas.
- 2. Promote system changes by provider organizations to increase one of evidence-based clinical practices for mothem and inflicts.
- 3. Support other efforts that maximize available financial and beeness resummers to organove maternal and infast builth in

stanal areas.

HI-CHI's Current Focus

- A main focus for HI-CHI is Neonatal Restrictation Town (NRT). Training for roral hospitals, HI-CHI has developed an NRT emitting protocol based on National Standards and facilitates NET Training statewich.
- In 2012, 111-CHP's scope expanded by taking a leadership role in the creation of a permatel quality collaborative for the rural areas of the state. Quality improvement for periodal care is currently based on data collected and analyzed for NRT measures.



Neonatal Response Teams: A HI-CHI Success Story

Problem: 10% of all babies how need some restacitation assistance at birth (Kattwickel, Bloom, AAP, & AMA, 2011). Delays in providing this assistance can lead to lithlong deficits. or over reconstal death. Infrats canad, for in neral heapitols see at even growse risk data to limited measures to prepare for introperturn complications. In Herealt this is compounded with the prographical challenge of being an island state. In 2009, (when HE-CHI was ratabilabed), the additional challenges in perimutal care in Newali was evident in Newali's several a somality rate (death up to 28 days of agr) which was 4.4 per 1,000 births compared to the nation rate of 4.16 (MacDomian, et al. 2013); March of Dirion, 2013). From 2001-2010 the overall infant mortality rate (dash up to 3 year of age) was also higher in Hawaii, 6.4 per 1,000 birds, when compared to the national new of 6.0. The methem are even more concerning on the neighbor islands of Hawaii where the inflett mortality rate ranged from 6.7 to 12.4 per 1.000 hirdss (lites of Howaii Primary Care Needs Assessment Data Book, 2012 & Healthy People 2020).

Neonatal Mortality Rates 2009 Sheriftin fast, pro 1996 Barrow

Purpose: To improve the accommittivy and quality of periods I health services in rend hospitals of Hawaii deveryh the creation of NRDs, education and facilitating collaboration howens health facilities, healthcare providers, and the connecavity.

Encloymond: According to the World Health Organization one of the best means to decrease infant monality is thorough the presence of highly trained healthcare personnal during the introperturn and the postnatal periods (2012). One method of increasing the number of skilled paragened available during this critical period is through the creation of NRDs. NRDs. or Necrostal Response Teern are interdisciplinary source which typically consist of menos, respiratory therapists, neoratologists, pediatricians, and/or Advanced Practice Registered. Numes. These teams receive advanced training to Neuranal Resouctuation and stabilization.

Creating NRTs in Rural Hawaii

- * 181-C311 has partnered up with Kapi olari Marical Carner for Women and Children, the only specialty hospital in Hawaii for women and children, to privide necrostal respectation and stabilization training for outer island healthcare teams. This solidvoration has resulted in the preation of Neuronal Response Teams (ORTs) in seven of Hawai's outer island heapitals:
- Hewart Island: Korn Community Bospital, Bilo Medical Center. North Hewari Community Borg ind
- Ment: Mate Moreoval Medical Cover
- * Kmart Witcon Memorial Brophal & Kasai Veterana Memorial 14 serviced
- Mololat: Molokai Gaunal Hospital.
- * NRDs in these hespitals are interdisciplinary tears consisting of pathairicians, transp. and respiratory therapists (According on the preferences of the hospitalish
- · The NRDs provide in-house parameted available 24 hours a day. 7 days a treek to manage rescucitations requiring advanced techniques including maintaining an airway, intabation, and planement of an unstitleal sem catheter. This is aspecially important with the provider shortage in rural areas of Hawail, where NRIA stabilize tarebores until the pediatrician arrive. Additionally, NRTs releases each hospital's capacity for addressing the needs of st-risk new horns and for batter stabilizing them before transport to the testiary care content on Chiefte.

HI-CHI NRT Program Findings

- ana ana
- (Neujonitation, Preservy, Robertson, Social, & Kobbur, 2013) has
- increase in confidence regarding preparation and ability to manage the procedonal and pharmacological save of sick babies.

HI-CHI's Future Focuses

- Beginning in 2014, data for selected Clinical Quality Measures. (CQM) from birthing hospitals statewide will be appropried in a database that is accessible to 180-CHI members who share data.
- Addressing Howall House Bill 909 Focusing on Infant montality in Hawaii
- · Rand Residency Program Working to increasing the number of primary care providen to rend areas of Hawati.
- Hi-CHI has a process for adopting new projects that fall within On argumination's scope of activities. This process includes networking and conducting formal needs nessentants of Revail's next hespitals and communities in order to guide
 - fatters activities.

Become a Member of HI-CHI

Are you immend in the quality of pertoatal health service in neal Hawail? Do you want to bacome a Ganaral Mamber of HI-CHE? Visitus at our waheise: http://www.jabsam.hawaii.adu/bi-chi/

References

References are available on regard.

- · Data collection and evaluation of the NRT program is still.
- * One study conducted by some members of HI-CHE
- · After NRT training, NRT members report a "substantial"

ROUTINES + SOCIAL BEHAVIOURS OF FREQUENT MOBILE COMMERCE SHOPPERS

FINDINGS

DALLY TINING * ROUTINES

tain activitiat, such as manding a book, which prompted tham to shop for and deveload a new book to read. Because partici-parts carried their mobile device with them nearly all the time and most had constant internet connecticity, they ream able to

Just under half of our participants (B out of 17) were much more media in their stopping activities. Reutines containly varied acress participants, but he fract the thropping activities estrumed in a constant and meaning participants and sense that the region of the stopping that an acceler for an engine in other the system of their meals down, here invited for appelling the stopping of the stopping of the stopping of the stopping of the their meals down, here invited the specific stopping of the stopping of the stopping of the stopping of the their meals down, here invited the specific stopping of the stoppin

We also saw that while not necessarily routine, three perficipents had fixed time intervals when they would shop. That is, they you is shop at a certain fine, yet they wouldn't do this on a consistent basis and they waren't booing for specific items. These instances were also not spontaneous in nature. Participants used their mobile devices for a large variaty of references and activities. This was dowine but by phosping without purchase. It have do y the activities of a strains for their mobile device is g₁, equal, and then the purchase of their energy laws. Series accessing partnerse dowine including areas then without you do down to doe any bread transit work participant developments. Thus, nor results force an practices across all participants. 28 of 161 (17%) and is maked to the actual purchase of a lead world, here (e.g., not actually use for the device) from a company. Participants brought a variety of products, including 2 instances of movies for any purchases, 2 instances of food purchases, 2 inattential of jevery purchases and a variety of one-off purchases such as given. Syna, forware, above, boold, clothing, and aports event titlets. IT perfections begind in the previously constant accounts make a purchase, this included using Armatentia.

act on these stimut in the moment repardless of their location or time of day.

type of kern or specific stores' kerns, and the bahavior repeated requierly.

and allay apps, along with apps made by Social Couponing sites and local food stores.

INTRODUCTION

Recently, there has been widespread growth of mobile shopping and buying, termed mCommerce. With this comes a need to understand user's routines and social behaviours in mCommerce activities so we can understand how to design for the mobile space.

To address this, we conducted a diary and interview study with regular mobile device users to applore their mobile shopping activities and behaviours. Our results describe a variety of usage patterns including spontaneous purchasing and routine shopping where people gravitate to their mobile device sums if a computer is nearby

We found that the fining of mobile shopping and purchasing full into three breed catego-ries. People a fiber shopped sponteneously when the need areas, as a habit errouting, or during foad time intervals based on schedules.





"every morning I wake up, shower and everything, flip through my emails, either first thing in the morning, before I leave for work or first thing when I get to the office ... that is what I do every day, literally, every day ... if something comes in, in the middle of the night, I want to get jump on it and if there is deals within those I share with my friends.*

- P17

"I went on the Internet to check my email and saw a daily deal for Groupon"

"While waiting for my train to class, I went on the Internet to check my email and saw the daily deal for Indulge and Groupon"

"Checking email while taking [train] to school this morning. Saw Groupon and Indulge daily deal ... *

- P8



PHOTOGRAPH BY: GREG SCHWIEGEL a street nobile photographer eren just betwere washingten p.C. and maltinore. nton his nyenn exhibition is new vork.

Piezt manty half of our participants (3) of 77) vous highly apartments in their shopping halfs. In these cases, participants thooping and partnering attribute mans a magnetic in their actional anvironment and their activities. This included theorem from activities both on and off their readils during. For example, participants more abready activityping in partner and manded to compare produce aproducts, days as to the anternorthema aprilement were available to their during, or her products and and the compare products approximate to the anternorthema aprilement were available to their during, or her products the specified as

P5: Team Participation Survey

- <u>https://tinyurl.com/CS377QTeamSurvey</u>
- Due by June 3, 6:00pm
- If survey is missing, you will lose 2 points on overall class participation component of your grade (out of 15 points)

Code data

- Deductive coding: Codes established in advance
- Inductive coding: Codes emerge from reviewing the data
- Line-by-line coding: Code every utterance, atomic unit
- Categorization: Grouping individual codes into clusters
- Identify themes: Storytelling units
- Tools
 - https://www.dedoose.com/
 - <u>https://atlasti.com/</u>

Data analysis exercise

- Put Post-Its up in groups (5 min)
 - What worked
 - What didn't work
 - Future changes
 - Other
- Write out reasons on blue Post-Its (10 min)
 - What resources/features helped make things work
 - What problems/issues caused things not to work
- Write out unanswered questions on purple Post-Its
- Group Post-Its according to themes (5 min)
- Write headlines on orange Post-Its (5 min)

