
ECE 1778: Creative Applications for Mobile Devices

Lecture 7
March 3, 2021

(1)



Today

1. Guest Lecture on UI/UX design from Jason Hyde
2. Logistics
3. Suggestions & Expectations on Presentations



Jason Hyde

- Founder, President of Junto XP
 - UX/web/mobile design
 - <https://www.linkedin.com/in/jason-hyde-a79881114/>
- Formerly: VP Creative & User Experience at Plastic Mobile
 - Lead a team of UX architects, Art Directors, Designers and Strategists.
 - Many major customers
 - Award winning!



Project Time Line

(4)



Project Stages

1. Groups Formed
2. Project Topic Approval-in-Principle
3. Project Proposal/Plan
4. Proposal & Plan Presentations
- 5. Lecture on User Experience & Presentations March 3rd**
6. Spiral 2 Presentations
 - March 10/17
7. Spiral 4 Presentations
 - March 24/31
8. Final Presentations
 - April 7/14
9. Final Report Due April 21st



Spiral 2 Presentations



Spiral 2 Presentation Outline

Four 'slides' total

Slide 1 & 2: Quick reminder of overall goal and function

- Being sure to provide enough context

'Slide' 3: Demo of software at Spiral 2 point

- This is the main purpose of the Spiral 2 presentation

Slide 4: What you plan to have working for Spiral 4

- Important to put good thought into this!!
- **Can choose to put this slide before demo**

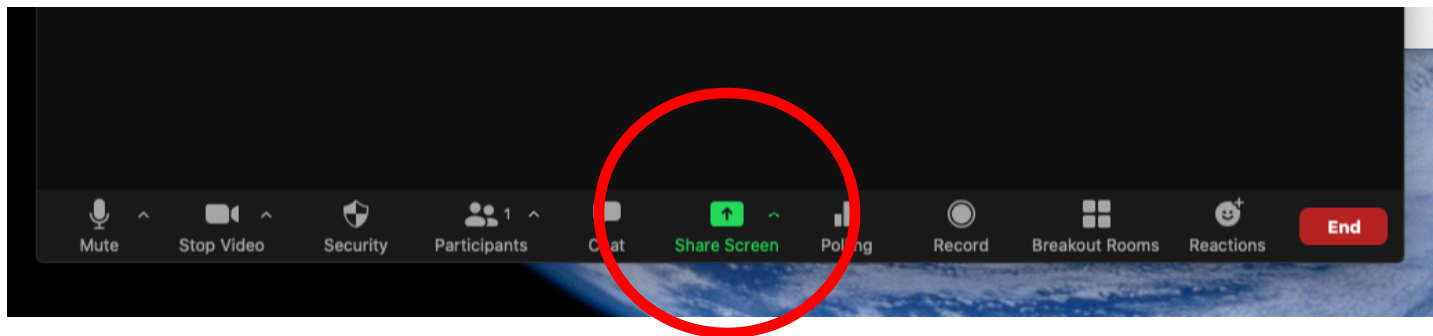
■ Time Limit again 6 minutes

■ The demo should take up most of the time



Different From Proposal Presentations

- You will have control of the Zoom!
- One of you will have to share the slides
- Another will need to 'share' the demo from your phone



Projection of Demos from Phones

- This was once hard, now quite easy, using Zoom!
- You need to do the following:
 1. Get Zoom on the Phones you'll be demoing
 2. Figure out how to share the screen – make sure permissions are set
 3. Test it with your own Zoom, so you're ready to demo!
- Be sure to test out, with Zoom sharing, long before next Tuesday!



Spiral 2 Presentation - Important

- Will take place over two weeks – March 10 and 17
- **Regardless of which day you get scheduled in, you will be presenting your progress as of March 10**
 - You must submit your slides on March 9 at 6pm
 - The software you demo should be the software as of March 10
 - (so keep copy of software on March 10 if presenting on 17th)



Scheduling of Spiral 2 & Peer Review

- I will send out the schedule for Spiral 2 on Monday March 8
 - Says which week you are presenting in
 - Says which week you are doing a Peer Review
 - normally the opposite week from when you present
- **If you cannot attend** on one of these days, must tell me by email Friday March 5 at 6pm.
 - Must be a hard constraint on you



Scheduling Presentations/Handing In

- You must hand in your slides on Tuesday March 9
 - Even if you're presenting on March 17
 - Should use those same slides when presenting



Presentations in This Course

Goals, Guidance & Examples



Goals

- To help you learn to make good presentations
- Set standards for your next 3 presentations
 - Give a sense of what we're looking for both in the presentations and the technical work you're doing
- Talk about the feedback



Looking For this in Spiral 2

- Clarity & brevity on goal
- See a good choice where to start the technical work (the spiral $\frac{1}{2}$)
- That you've made good progress
 - sense of technical depth of work
- Good demo of work done so far



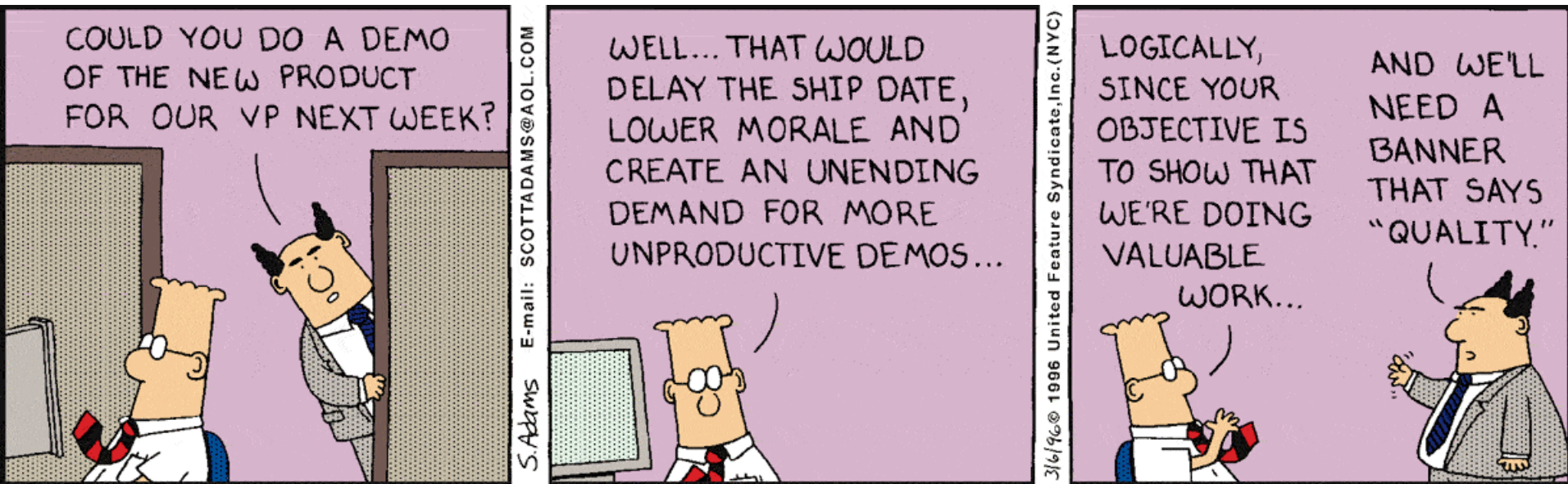
Demos

- Are hard to do well
- Are just like presentations – need to be practiced
- First rule of demos: **Demos Don't Work**
 - Until they do! (they are like software, must test!)
- To make demo succeed:
 - Practice in the exact situation where the **real demo** will take place
 - i.e. on zoom, with the internet as it is from your homes!

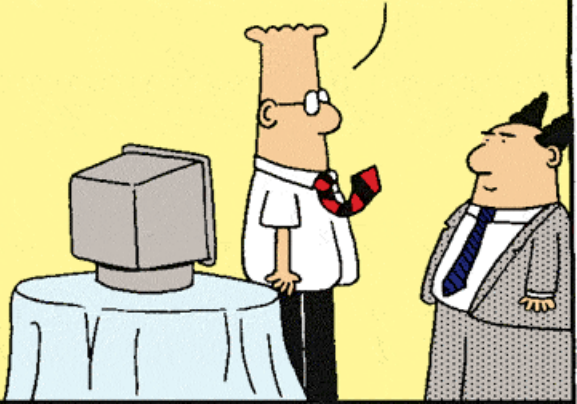


Dilbert has a lot to say about demos

https://dilbert.com/search_results?terms=Product+Demo

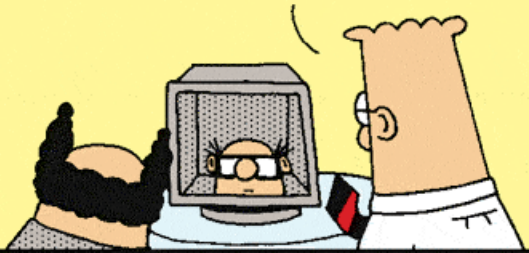


WE HAD TO CUT SOME CORNERS TO GET THE DEMO READY THIS SOON.



SADJMS E-mail: SCOTTADAMS@AOL.COM

WALLY IS UNDER THE TABLE. HE'LL PRETEND TO BE THE 3-D INTERFACE THAT WE COULD BUILD IF WE WEREN'T DOING USELESS DEMOS.



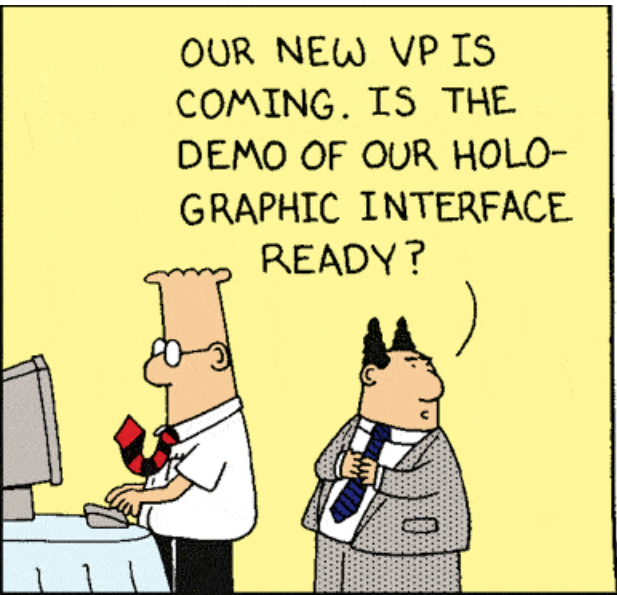
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HE'S A LITTLE FUZZY. CAN YOU ADJUST IT?



TRY THE ELECTRIC SHAVER.

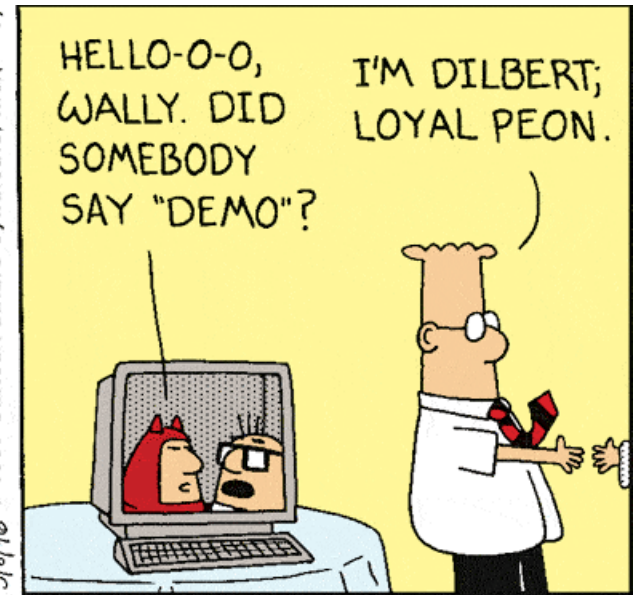




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Example Spiral 2 Presentations



RoamGame

Measuring the “Intolerance of Uncertainty”

Justin Wong and Vinu Deokaran

March 2016



Roam Game: Measure Intolerance of Uncertainty

- Intolerance of Uncertainty (IU)
 - Measure of a person's dislike for the unknown
 - Research has shown that higher **IU** leads to anxiety disorders and depression
- Goal: make a game that, in observing how someone plays it, you can determine their IU level
 - Compare to known IU methods

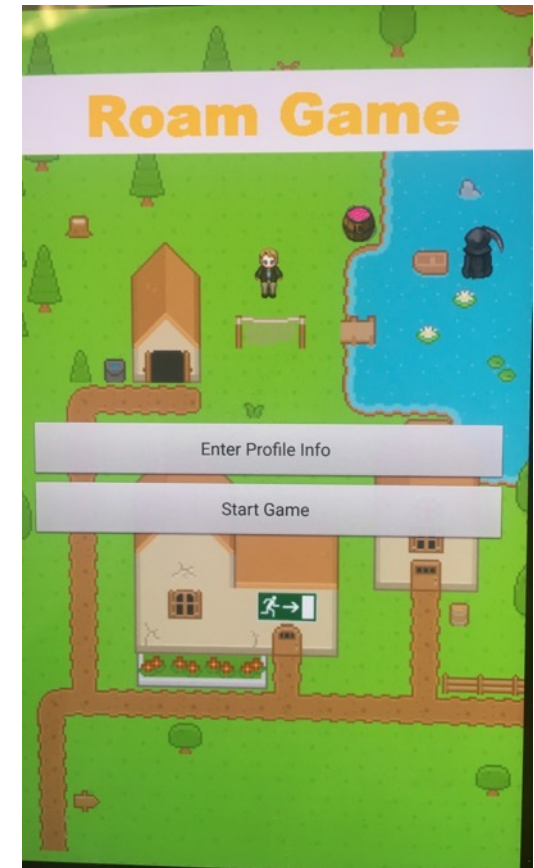


Plan and Goals

- Make a 'walk about game' with increasing threats and rewards

Spiral 2:

- basic game layout and ability to walk about
- have barrels to pick up points
- one threat (reapers) to appear and take away health



Roam Game: Demo

Using Zoom on Pixel 3A



Roam Game: Demo

Using Web Version:

<https://cimhasgithub.github.io/roam-game-android/demo/>

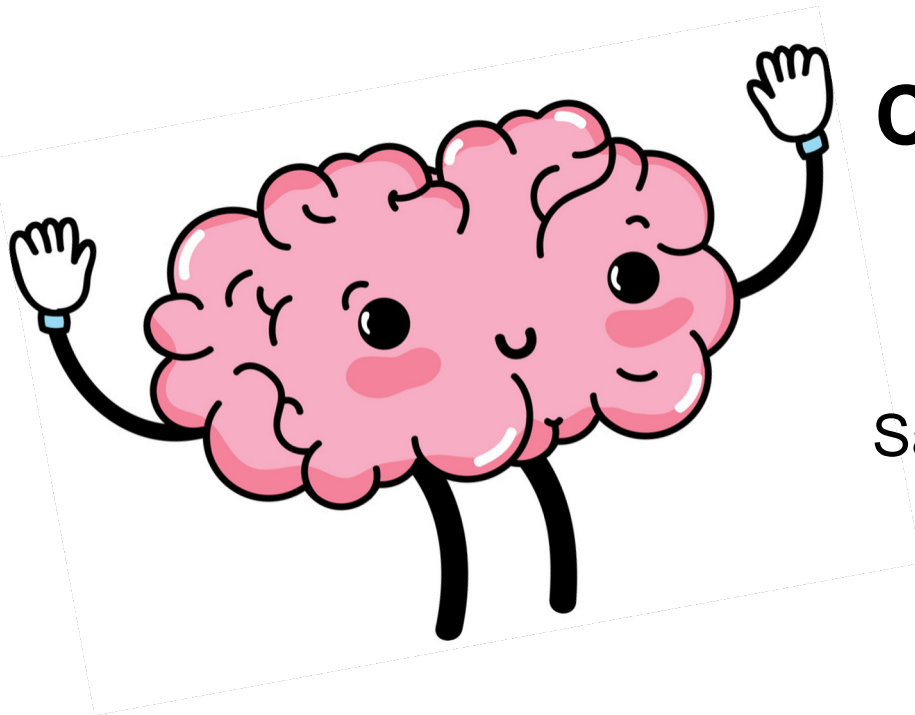


Plan for Spiral 4

- Experiment with game, and enhance it to make it fun
 - Add More threats
 - Ability to choose between 'health' and 'points' when find barrel
- Build server to receive reports of statistics from game
 - To enable to downstream research



Brain Pain!

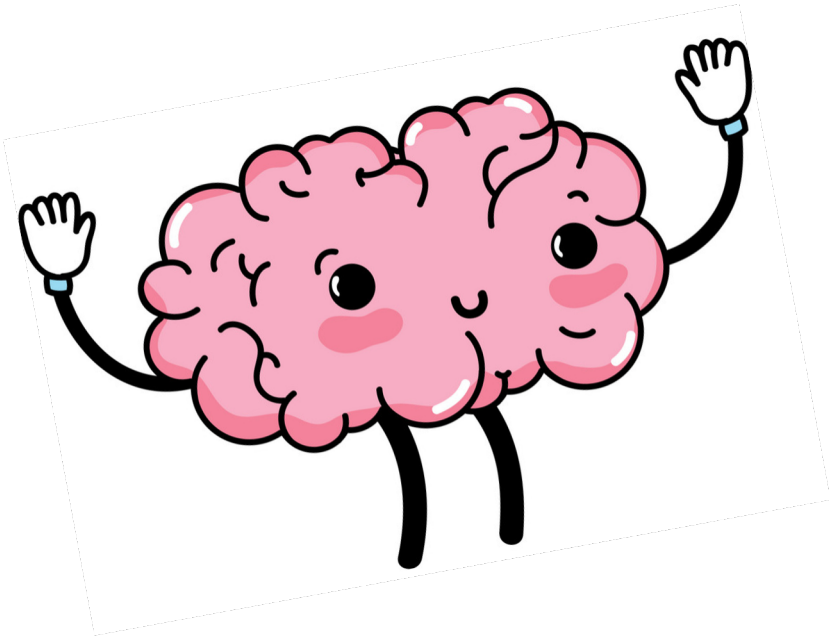


Concussion Care App

Spiral 2 Presentation

Sandhya Mylabathula - Specialist
Junbang Ma - Programmer
Jiawei Lin - Programmer

GOAL



Why:

- Concussions can happen in many different contexts!
- Awareness on injury identification and management is lacking in the non-elite sport world
- Accessibility and autonomy of management exercises

GOAL

What:

- Comprehensive concussion care app
- Education
- Exercises
 - Ocular/vision
 - Balance
 - Measure and track performance; provide progressions



DEMO!

<https://exssteward.wixsite.com/brainpain>



Spiral 3 and 4 Targets

- Spiral 3 Targets:
 - Finish exercise functions
 - Ocular exercises
 - Add eye tracking function to peripheral vision exercise
 - Start adding progressions for three of the ocular exercises
 - Add one more ocular exercise
 - Add Balance exercise
- Spiral 4 Targets:
 - Improve exercises
 - Finish adding progressions for all exercises
 - Test exercises
 - Add quiz to test user knowledge in education section
 - Add community section, if time allows



Looking Farther Ahead to Spiral 4

(March 24/31)



Spiral 4

- Presentation will be similar to Spiral 2
 - Quick reprise of goal
 - **But:** Will ask the specialist & programmers to speak to each others' side
 - Another Demo
- Want you to start thinking of 'narrative' that will tell the story of your project
- A story often centres on a person or people
- It has a narrative 'arc'
 - A beginning a middle and an end.



Final Presentations



Looking for Two Key Things

- A good narrative and demo – what & why
- A sense of the technical work – some ‘how’



Here is a Great Narrative Example

- Baton, an education App:
- https://youtu.be/xDCjclL_zLY



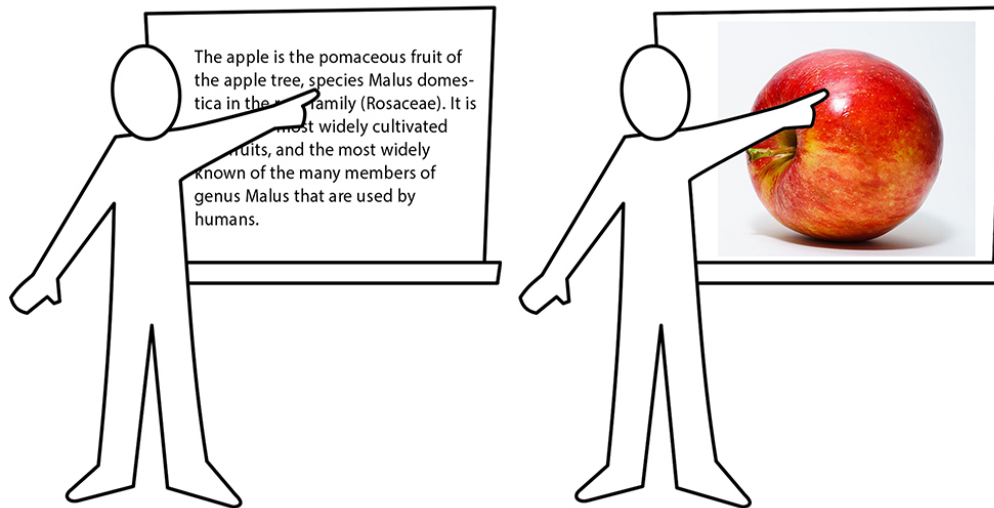
Then 'How'

- Describe the key technological work **that you did**
 - An algorithm to select buddies
 - A signal processing algorithm
 - A complex database
- Give us a sense of the complexity of your work.



Do's

- Do Use Pictures
 - Most people are visual learners
- Do practice your presentation so it comes out smoothly & on time.
- **Do Practice your demo**



Don'ts

- Don't spend a lot of time 'logging in' to your server or application
 - Find a way to make that go by quickly **and all data entry**
- **Be careful not to repeat the same content in the introduction and the demo**
 - Just pick one place to talk about the specific functionality



Spiral 2 Peer Review Questions



Spiral 2 Peer Review Questions

1. State name of project and 1 sentence that summarizes the goal
2. Comment on What You Liked in the **Demo**.
3. Provide a constructive suggestion for any aspect of the project so far.
4. Give feedback on the Spiral 4 goal(s) presented



Peer Review

- Keep to review to 1 page, roughly 250 words total
- Peer Reviews for Spiral 2 Due Friday of the **week of the presentation**



See you next week for presentations!

Four slides with content due March 9th at 6pm,

- Upload to the Quercus Assignment Spiral 2 by this time

■ Time Limit again 6 minutes, 5 minutes for questions

