

# Programming and Data Science for User Experience Researchers

HCDE 598 A — Jonathan T. Morgan & Ray Hong

Lecture | Week 3 | April 11, 2016

# Overview of the day

- Feedback review & administrative stuff (6 - 6:15)
- Week 2 coding challenges (6:15 - 6:50)
- New programming concepts (6:50 - 7:20)
- *10 minute break*
- Research programming example (7:30 - 8:10)
- Baby Names project introduction (8:10 - 8:40)
- *10 minute break*
- Peer programming: Baby Names (8:50 - 9:45)

Your feedback

# Week 2 feedback survey

- We spend too much time reviewing, not enough on new stuff
- Be clearer on how you want us to use lecture time
- Step through lecture code slower, and explain what you're doing
- Real life examples would be helpful
- Project time happens too late; my head is mush at 9pm!
- Project time is noisy/chaotic
- I got stuck during project time, but was hesitant to turn to my peers for help

# Changes based on feedback

- **Tonight's lecture:** type what I type, let me know if I'm going too fast to follow, or if something's not clear. Ask me, Ray, or your teammate if you get stuck.
- **Real life research examples:** I have one :) We'll go over it after the first break.
- **Project time:** has to be at the end of class, but...
  - Team up with whomever you like (move around, or work in the design lab)
  - Please minimize off-topic discussions out of consideration to your peers
  - *Experienced programmers:* please offer help to your less-experienced peers

Questions?

# Research programming example

# Wikipedia Editor Survey: use of the Notifications feature





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# Tamalpais Valley,

From Wikipedia, the free encyclopedia

*"Big Coyote, California" redirect to  
California.*

**Tamalpais Valley** (also known as "Coyote Valley" or "Coyote Hollow" in Marin County, California.<sup>[3]</sup>

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## Land

Tamalpais Valley is located at 37°50′N 122°32′45″W﻿ / ﻿37.833°N 122.546°W﻿ / 37.833; -122.546 in size, with an elevation of 108 feet. To the north and [Sausalito](#) to the south. Traveling by car, Tamalpais Valley is located about 10 minutes from the [Golden Gate Bridge](#) and fifteen minutes from [San Francisco](#). California State Route 1 (also known as Shoreline Highway and the Pacific Coast Highway) runs through the Valley and is the road most often used to access western Marin County.<sup>[5]</sup>

 [Jane Finch](#) 4 [Talk](#) [Sandbox](#) [Preferences](#) [Watchlist](#) [Contributions](#) [Log out](#)

**Notifications** 



**Mary Dunlap** and 1 other posted on your [talk page](#).

"Great article on Tam Valley!"

6 minutes ago | [View changes](#)



**Mary Dunlap** thanked you for your edit on [Tamalpais Valley](#)

"Does anyone have references about Coyote Ridge?"

11 minutes ago | [View changes](#)



**Fabrice Florin** mentioned you on [Talk:Tamalpais Valley](#)

"Here are some tips on Coyote Ridge, to improve your Tam Valley Page."

35 minutes ago | [View changes](#)



**Kaldari** reviewed a page you started: [Tamalpais Valley](#)

44 minutes ago



Wikipedia is a free encyclopedia written by people like you. [Get started](#) by making your first edit!

13 hours ago



Welcome to Wikipedia, Jane Finch! We're glad you're here.

13 hours ago

» [All notifications](#)


 [Preferences](#)

### Government

- [Senate](#)
- [Assembly](#)
- [U. S. Congress](#)

[Mark Leno](#) (D)  
[Marc Levine](#) (D)  
[Jared Huffman](#) (D)<sup>[1]</sup>



English 

**Q8. Please rank the following list of notification types in order of how important it is that you read this type of notification soon after it occurs.**

*Re-order the list below by dragging the most important notification to position 1, the second most important to position 2, and so on.*

- other pages now link to a page you created
- someone sent you an email
- someone mentioned you on a talkpage
- your edit was reverted
- someone thanked you for your edit
- a page you created was reviewed
- your user rights were changed
- someone left a message on your user talkpage

0%  100%

<<

>>

# Research questions

**Sampling:** logged-in users who have at least 1 unread notification

## Questions

- Which types of Notification are editors exposed to?
- Which types of Notification do editors consider most important?

**Design goal:** figure out which notifications to prioritize in the feed, which ones to de-emphasize



Allie Deford  
Morgan Duffy  
Khuyen "Max" Lam  
Daren Chaisy



Ender Barillas  
Jonathan Wang  
Olivia Frederick  
Yuan Zhuang



Sahil Anand  
Nick Throm  
TJ Koines  
George Karalis



Nikhil Venkatesh  
Susan evans  
Spencer James  
Abhishek Anand



Gabriela Madrid  
Nick Anderson  
John Jessup  
Demi Boe



David wang  
Kristine Kohlhepp  
Setumadhava G Kathawate  
Emma Bulajewski



Vishwas Shetty  
Todd Little  
Nicole Bernardi  
Anne Burkner



+2 students