



Course-Source

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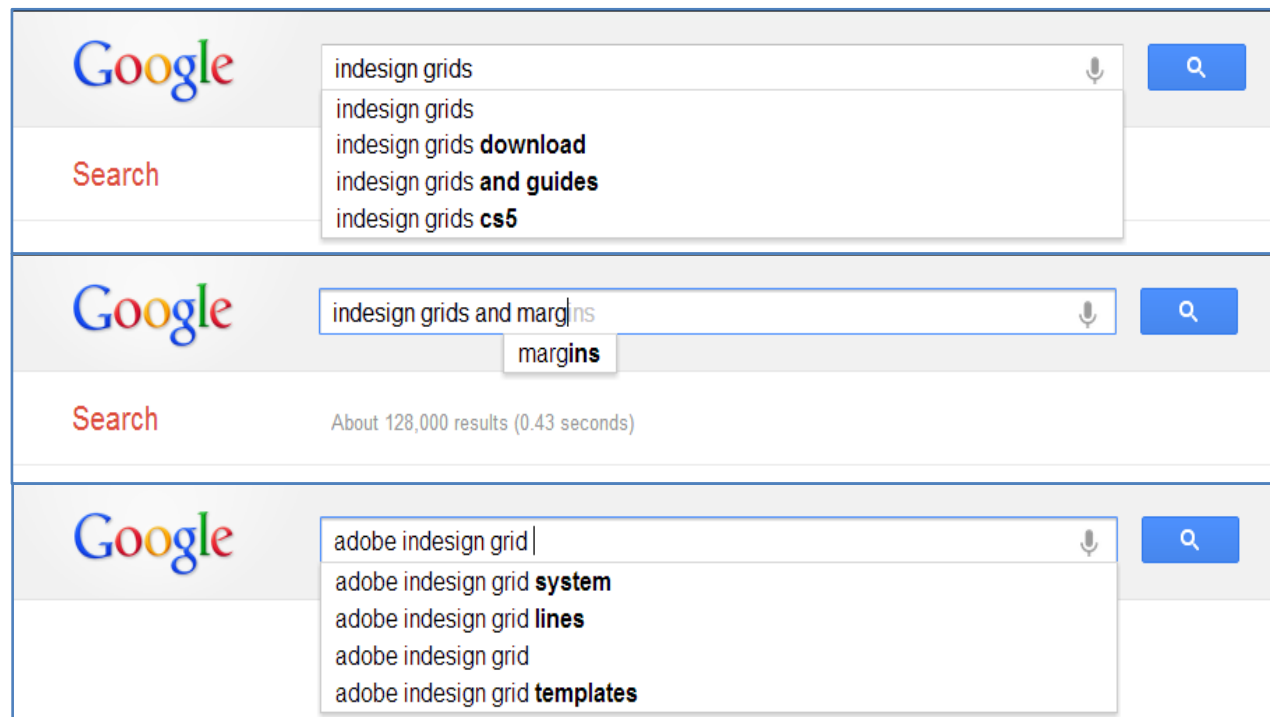
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Problem: Students Searching

Students in the same class use Google to search for similar problems.





Key Issues

Problems during searching:

- What keywords to use while searching
- Sharing resources for common problems
- Re-finding links once saved



Solution: Course-Sourcing



Everyone's searching, so use that to help everyone search better.





DETAILED PROBLEM DESCRIPTION





Detailed issue description

- What words to use
 - Course Terminology
 - Getting Stuck
- Sharing resources
 - Sharing is Inconvenient
- Refinding
 - Haphazard
 - Hard to do in hindsight



Looks for resources
online to help
w/ assmt. Reads,
uses.

1: Get tools
(font) for
assmt.

1: Get info. on
what way to
do assmt.
problems.

Finds resources/
looks for help
on Google

u1-2-6

u1-2-8

u1-2-7

u3-10

u3-9

u3-5

u4-4

u2-6

search

u4-5

u4-6

u4

SAVE RESOURCES

I rely
on search
engines to
complete my
H.W.

I'm not
sure what
the right
key word is

I use Wolfram
Alpha to do
complex computation

I use google to
help me write
my code.

I rely on
wikis for
obscure
knowledge

U3- 7. Problem in understanding terminology utilized in the application

U3-Insight-5 Has difficulty with the vocabulary of design/design tools, so search suffers.

U4-Insight-13 Looks at course materials to find search terms/official terminology.

U4-Insight-12 Not sure what the terminology is for what she's looking for so refines search terms as part of the process.

U3- 67. Google autocomplete found to be helpful while searching

U3- 66. Searches for "Indesign page border"

U2-Insight-5 Higher level math students may use tools for computation like Wolfram Alpha.

U2 - 33 U2 says he uses Wolfram Alpha whenever he has to do complex computation (beyond addition and subtraction).

U2 - 25 Uses Wolfram Alpha to help solve equation for homework.

U1-17. Using GOOGLE/stackoverflow.com to find help with homework quickly.

U1-18. Using GOOGLE she copies code for assignment.

U5- 32. Like, "asking for directions is more important then knowing how to read a map."

U2 - 10 Allowed to use any sort of outside sources.

U1-Insight-4 One work method, at least for coding, is to search google (which usually leads to stack overflow) for code, then modify it for the assignment at hand.

U5- 21. Goes to Wikipedia to find difference.

U5- 20. Turns to part 2 of his assignment - involves Googling things, need to understand Roman vs. Japanese abaci.

U5- 22. Immediately finds out how Roman abacus works - types up answer in NotePad.

U5- 23. Then finds Japanese on same Wiki

U5-Insight-3 Students use Wikipedia as reference during homework.

I'm not
sure what
the right
key word is

I use
Alpha
Complex

U3- 7. Problem in understanding
terminology utilized in the
application

U2-Insight
math s
tools
like

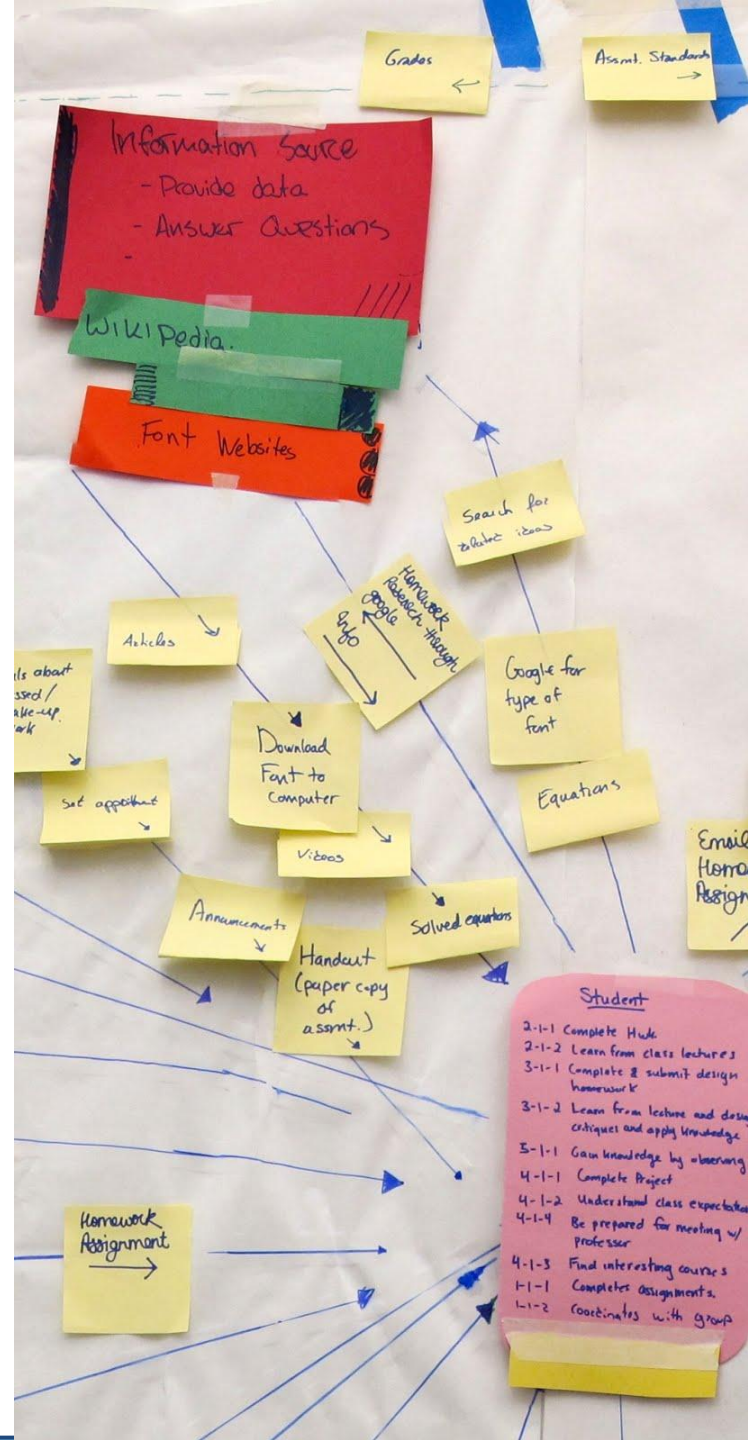
ight-5 Has difficulty with
bulary of design/design
ffers



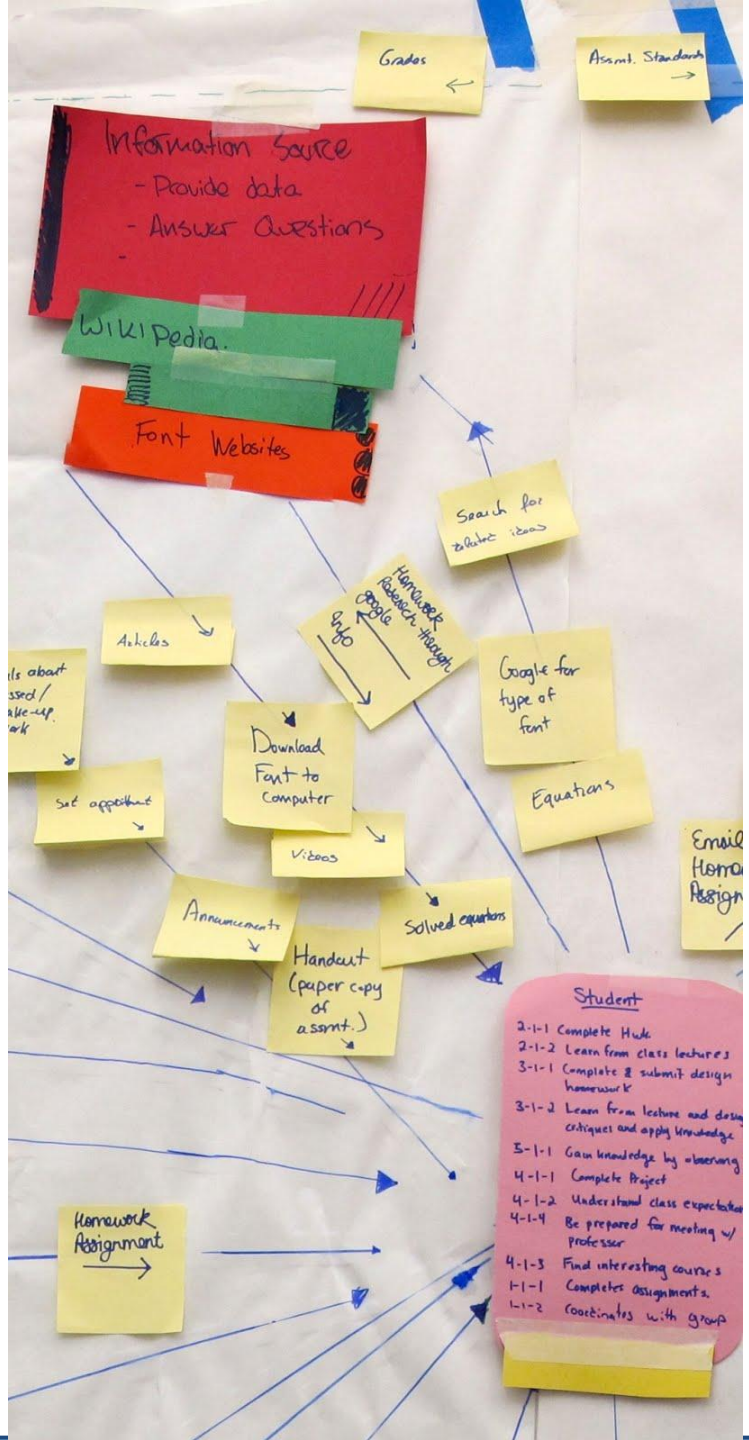
User Quote: Getting Stuck

"But I still need more...I need to see more examples..."











Collaborative
Classmates

If I help you,
you'll help me too.

We have to
work together
to succeed

We need to be
in touch to
coordinate.

Friends

Student

Profess

I want you to
do the
assmt.
well

I expect
to be
for
our
You have to
keep up
your

I want to
impress you.

Technically



User Quote: Refinding

"Yea it's important, so I am gonna email it to myself"





Recap: Key Issues

- What words to use
 - Course Terminology
 - Getting Stuck
- Sharing resources
 - Sharing is Inconvenient
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Vision Description

Sidebar with:

- Suggested search terms*
- Class-curated links*
- Class-specific search history



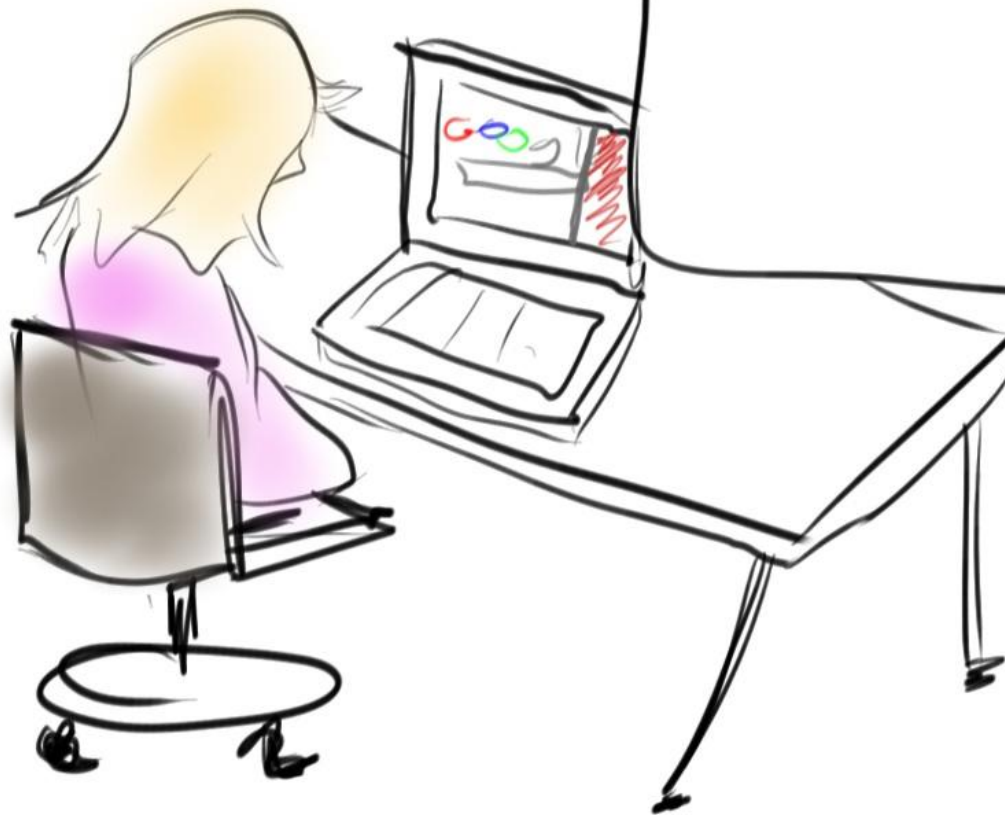
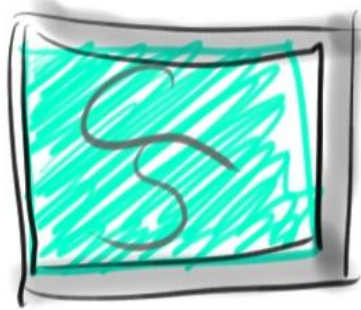


(1)

Sam



o o I need to
Design
my Beatles Poster
for Class!





gle

05-651 Design

Top Searches

Beatles Songs

- Free Fonts
- Vintage Color Palette

Google



-Wikipedia - List of Beatles

-The Beatles.com



Wiki

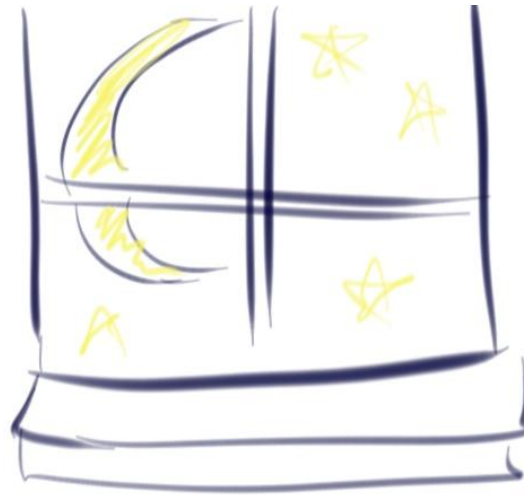
List of Songs by Beatles

Title

Black Bird

Another Girl







Design

Recent History

- Modern.com
- Design Hist. com
- Swiss. com

Starred Pages

- ★ Typography. com
- ★ 80's Design
- ★ Beatles Images





Issue Recap

- What words to use
 - Course Terminology
 - Getting Stuck
- Sharing resources
 - Similar Searches
 - Sharing is Inconvenient
- Refinding
 - Haphazard
 - Hard to do in hindsight





Vision Feasibility

- Pluses
 - addresses key issues
 - small, simple, unobtrusive
 - don't have to do extra work
- Minuses
 - more useful for some courses
 - creative convergence
 - privacy
 - cross-browser compatibility





Thank you!

Questions?



Get stuff together.

Start

I: Have stuff needed for doing the assmt. at hand.

I: Get started.

I: Record initial thoughts.

I: Find Inspiration + brainstorming

Opens documents and programs on computer.

U3-3

U4-3

eclipse project for assignment

U1-2-3

working on assmt.

U1-2-5

Use google + autocomplete to find course Site

U1-1

Pick formulas needed for assignment from slides

U2-3

Searches online to find Roman Japanese

U5-5

Brainstorms in notebook.

U3-2

U4-2

first.

U2-4

U1-3

Pick formulas needed for assignment

U2-11

U2-7

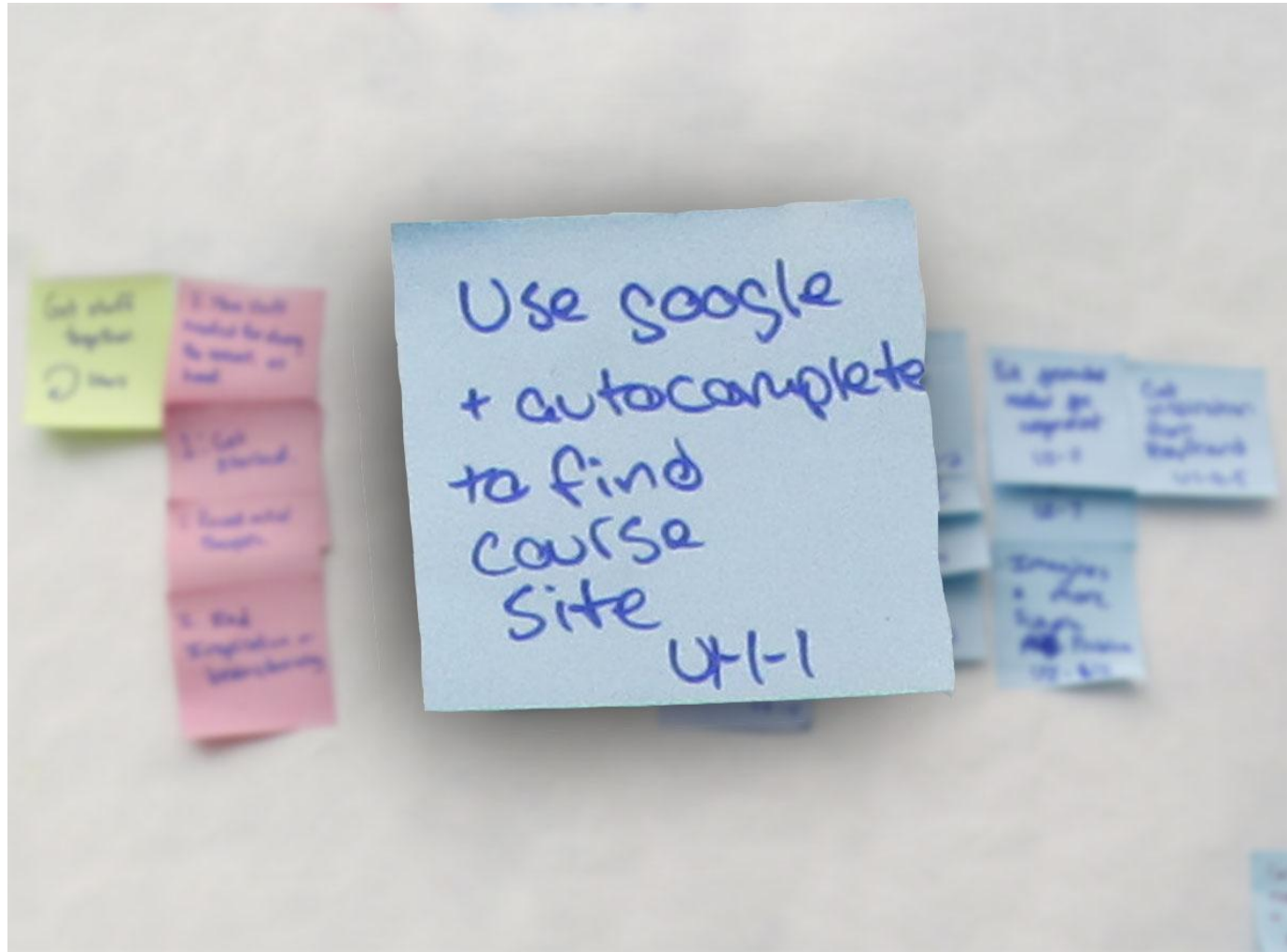
Imagines a more simple Problem

U2-612

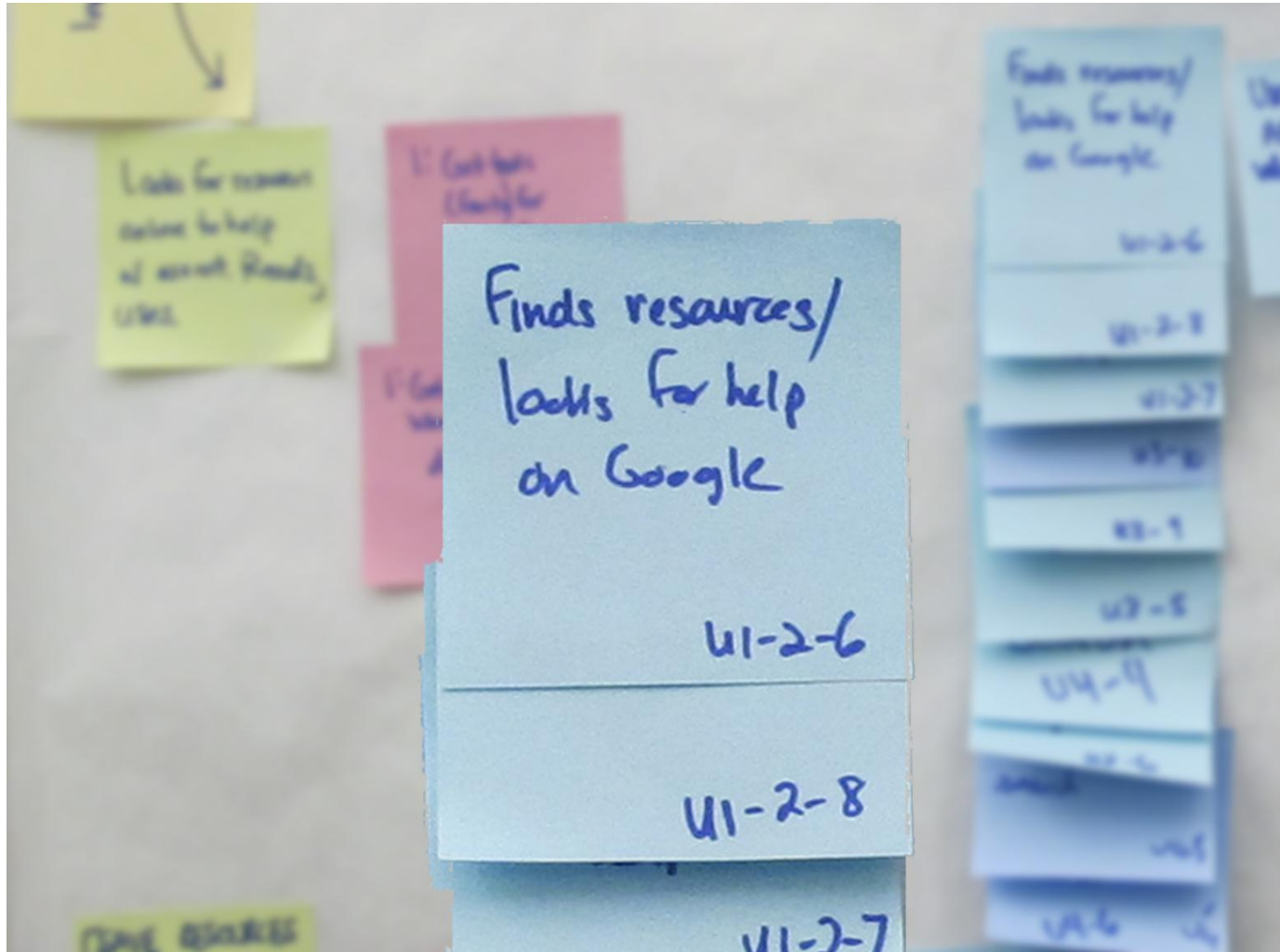
Get inspiration from Boyfriend

U1-4-5

Consolidated Sequence Model



Sequence Model Zoomed



I use what I knew
already to start
searching online
for inspiration.

I look for
examples of projects
to come up w/ an
idea for my own.

U3-Insight-4 User imagines
storyline to produce design,
affects search terms

My past experiences
influence my
searches.

U4-Insight-10 Paid
attention to search
results that related to
her personal interests.

U4 - 23 Had attended "creator's
project" events in NY, so looked
at videos on their website about
motion capture to find ideas.

U4 - 36 Had heard a lot about
Kinect so searched for it
online.

I watch
videos
for
inspiration

U4-Insight-11 Brainstormin
g type search - wasn't being
thorough, reading parts of
articles, watching parts of
videos.

U4 - 43 Video related to her
interest in dance and
performance, so she thought it
was good for coming up with
ideas.

U4 - 42 Found and watched
half of another video about
a Kinect project.

U4 - 35 Didn't watch video about
Kinect because music was
annoying and video was
irrelevant.

U4 - 44 After watching
another video, wrote down
notes about the video.

I use
google
to get
creative
inspiration

U3-52. Copy/Pastes the name of
the font that he wants to download
back in the Google search box

U3-33. Searches for
typewriter based fonts using
google

U3-Insight-1 Uses google to
search for new fonts that the
application does not provide.

U3-35. Found the font in a
blog

U3-20. Searches for the best
typewriter like font

U3-23. Had looked up free
fonts online previously

U4-Insight-3 Depends on Google
links to start coming up with
ideas.

U4 - 21 Searched Google to see
what sort of projects had
already been done in this field
before starting to create her
own ideas.