



Mason



Madison

The Smiths



Carly



Paige



Mac-I

Phase 1 | Exploration





A blacksmith in his natural habitat.
Taking in the feel of the forge...



Blacksmiths -- full time makers! Also,
finding some values. #JANKDIY

User Visits | Getting to know
who we were designing for and
feeling their pain.



Getting nutty with some word-mood card clusters





Putting the finishing touches on our personas

A close-up photograph of a blacksmith's hands. The person is wearing a bright orange apron. Their left hand holds a pair of long-handled metal tongs, which are being used to manipulate a glowing piece of metal held over an open furnace. The right hand rests on the side of the furnace. The background is dark and out of focus, showing the interior of a workshop.

Tongs: a major pain point
for blacksmiths

Phase 2 | Conceptualization



First Co-design at MIT



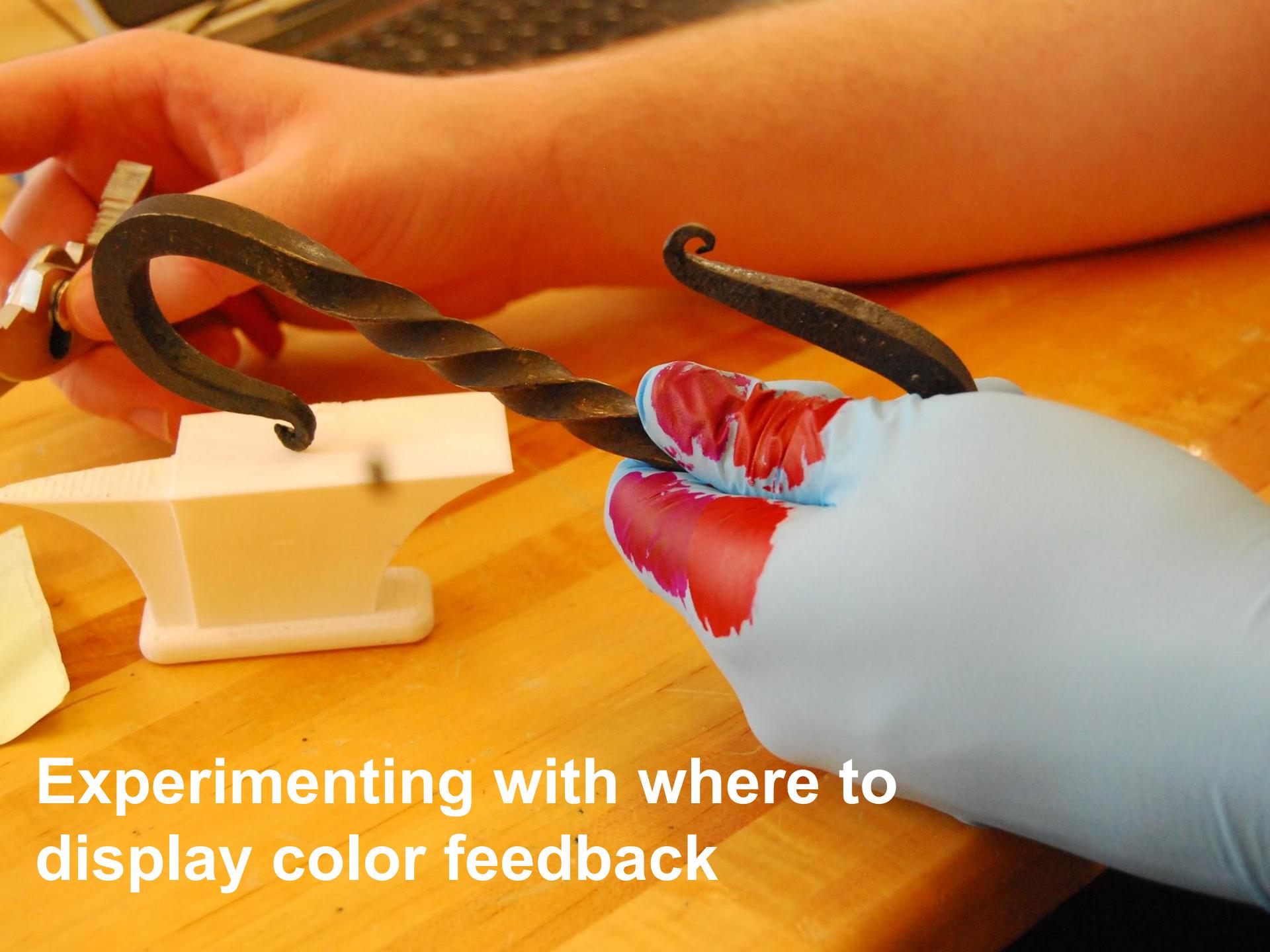
Second Co-design in Rhode Island

#déjàvu



Super excited about rough gallery sketches





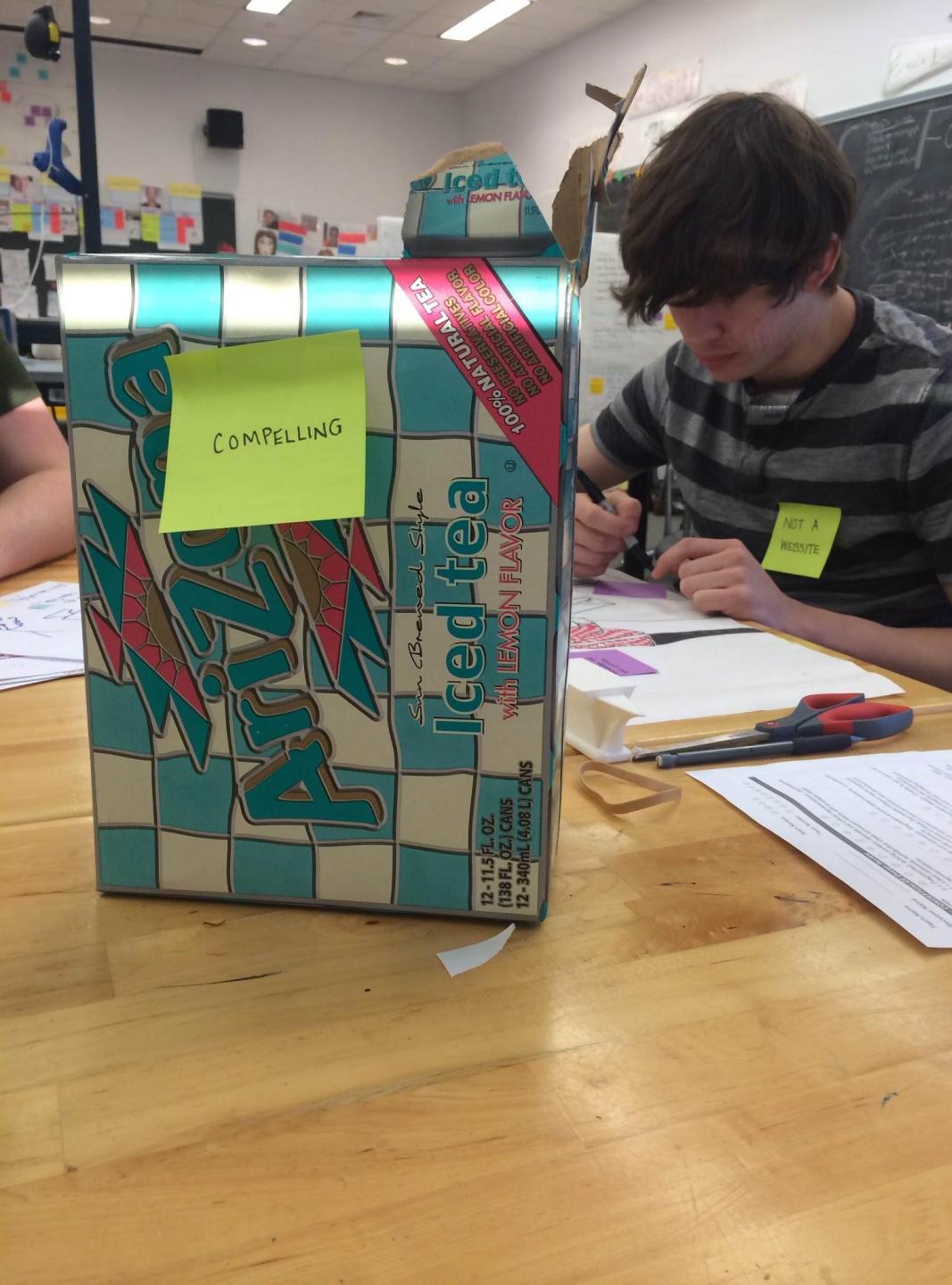
Experimenting with where to
display color feedback

Third Co-design and user feedback on our gallery sketches



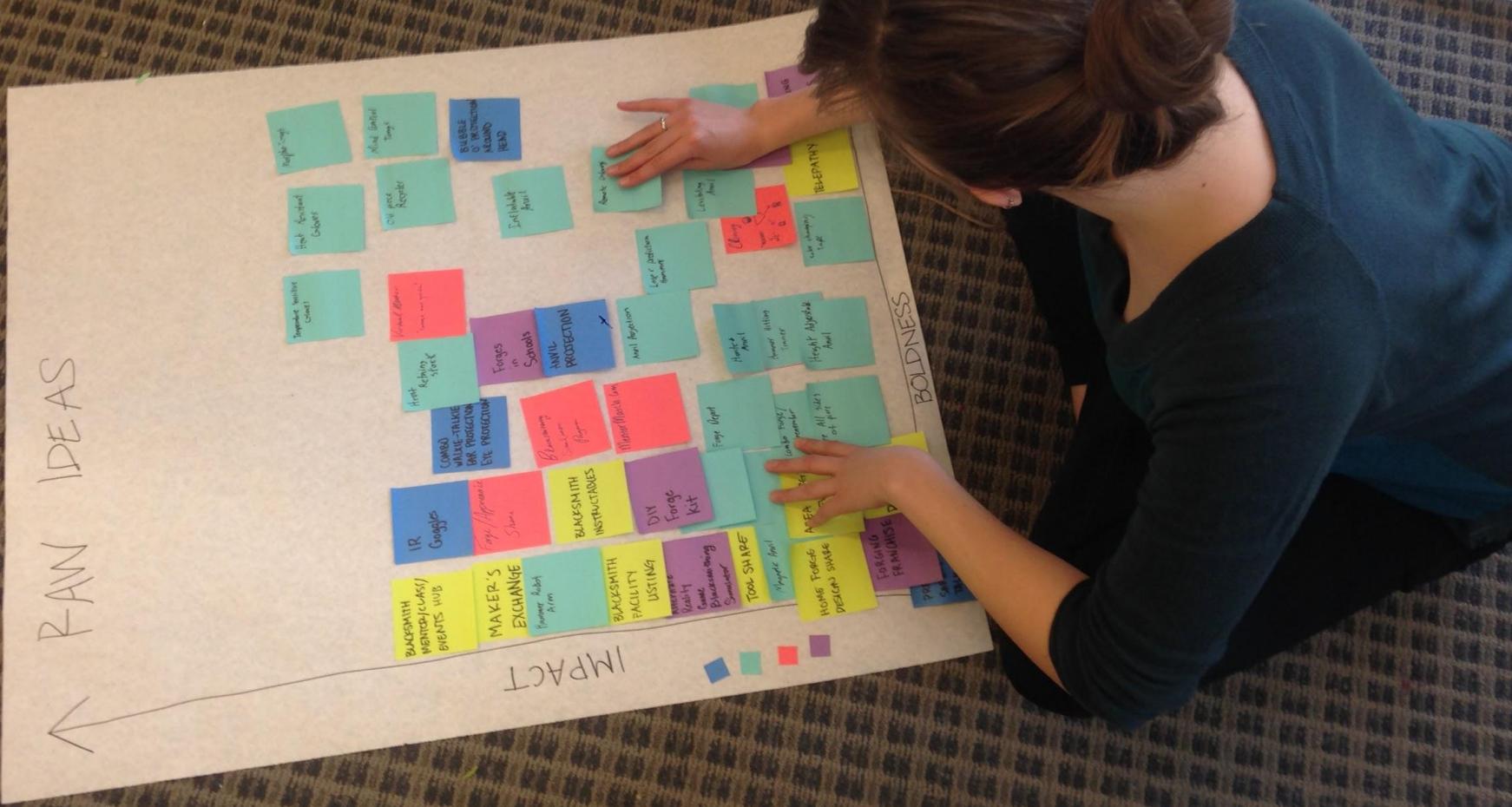
OMG Handles





#UOCDrinks are very useful for displaying designer values (and team bonding)

Bolder! Impactier! Hng!



#godeeper

Phase 3 | Develop



#Gross

Emphasizing our personas on the broad interaction map



Working out some interface stuff with rough sketch models



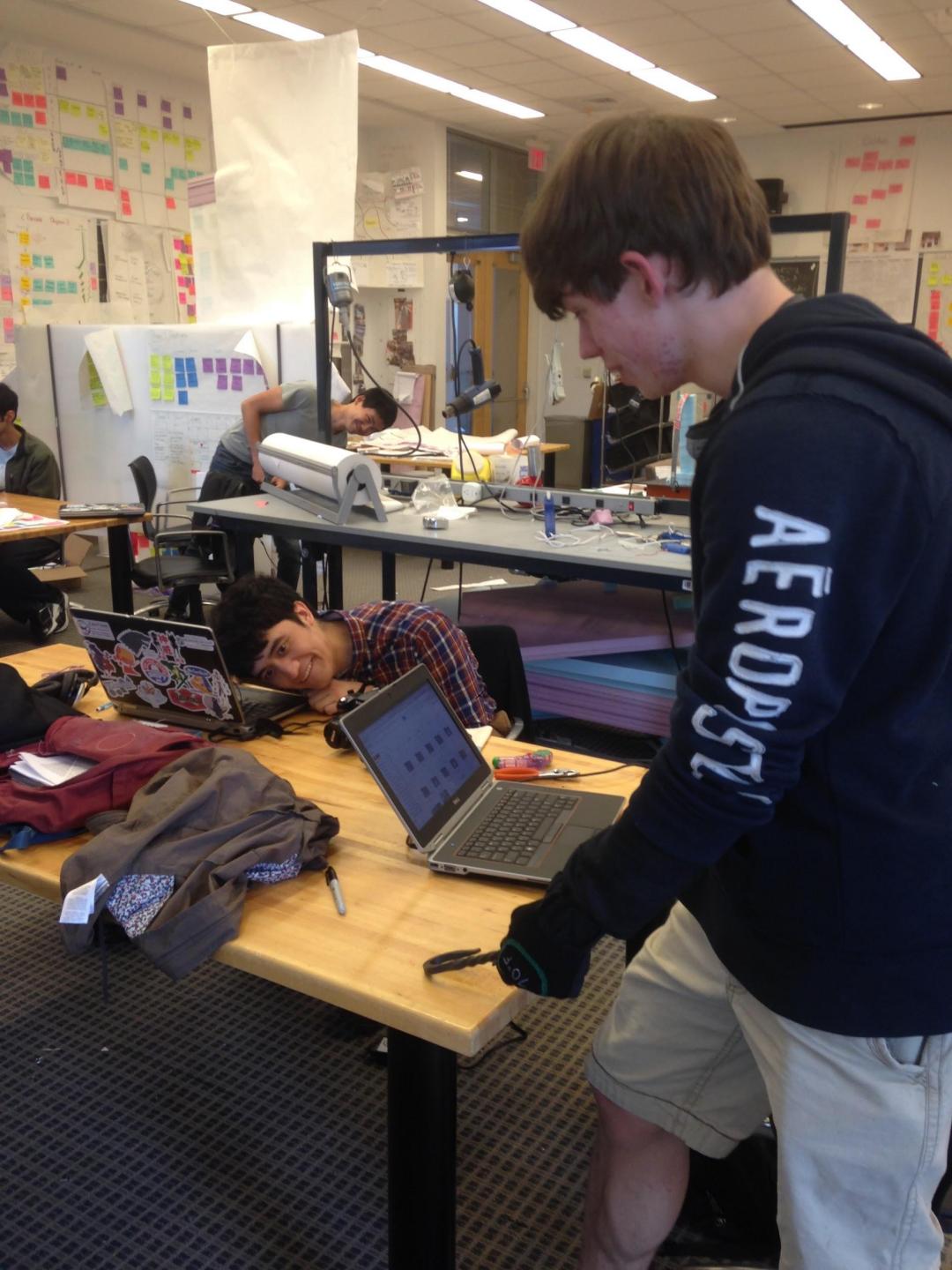
Being Blacksmiths... Acting out the interactions





Specifying the Gauntlet's features

Playing with our final prototype



their pieces.

THE PRODUCT

that gives instructive temperature direct interaction with their piece.

temperature read-out upon contacting a piece assists Andy his more advanced and artistic pieces.

level of flexibility and heat-resistance provides the ability to remove the pain point of tongs from the process of smithing, eliminating the unwanted distance between more advanced artists and their work.

ning how to use tongs creates a high barrier of entry for students like Kenny. Removing this added difficulty by giving him direct contact with this piece along with providing instructive feedback through the Gauntlet's colored alert system both improves the chances that Kenny will continue blacksmithing and greatly decreases the learning curve associated with picking up this craft.

to ensure that no



Name: Kenny the Kid
Age: 14 years old

Kenny is just beginning his independence from his parents and uses buckshot alerts to push his boundaries and learn new things.



Name: Andy the Academic
Age: 23 years old

Andy is a grad student, studying engineering, and uses blacksmithing as a physical release and mental break from his academics. Having studied blacksmithing before becoming a grad student, Andy is now past learning the basics and focuses more on the artistry of blacksmithing.



Name: Mike the Mentor
Age: 60 years old

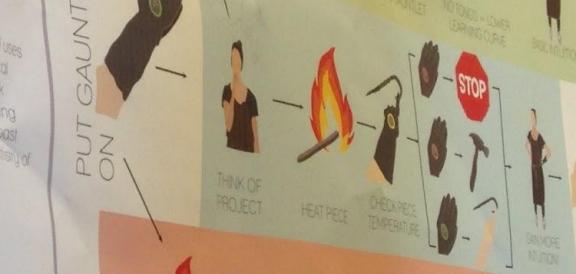
Mike is a machinist, a family-man and above all else, a teacher. He mastered blacksmithing decades ago, but continues so that he can pass down this historical craft to the next generation of smiths.

SECTION MAP | THE SMITHS

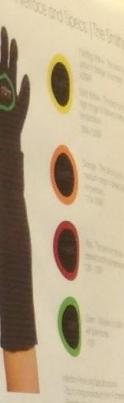
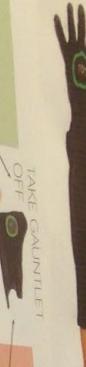
LESSON



PUT GAUNTLET ON

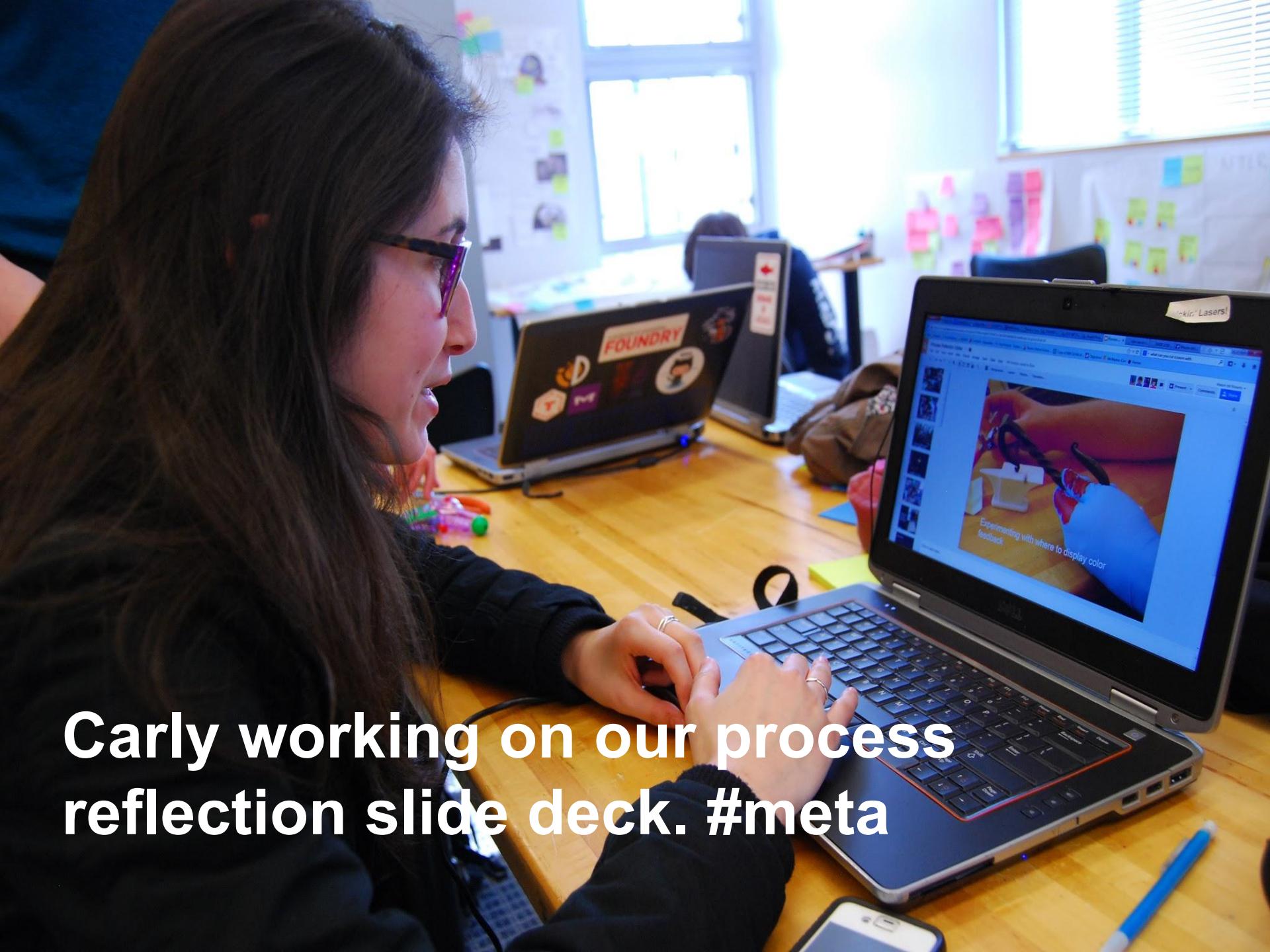


TAKE GAUNTLET OFF



Requirements ID	Stakeholders	Needs	Requirements	Period	Notes	Type
R1	All Stakeholders	Needs	Requirement 1	Period 1	Requirement 1 Notes	Requirement 1 Type
R2	All Stakeholders	Needs	Requirement 2	Period 2	Requirement 2 Notes	Requirement 2 Type
R3	All Stakeholders	Needs	Requirement 3	Period 3	Requirement 3 Notes	Requirement 3 Type
R4	All Stakeholders	Needs	Requirement 4	Period 4	Requirement 4 Notes	Requirement 4 Type
R5	All Stakeholders	Needs	Requirement 5	Period 5	Requirement 5 Notes	Requirement 5 Type
R6	All Stakeholders	Needs	Requirement 6	Period 6	Requirement 6 Notes	Requirement 6 Type
R7	All Stakeholders	Needs	Requirement 7	Period 7	Requirement 7 Notes	Requirement 7 Type
R8	All Stakeholders	Needs	Requirement 8	Period 8	Requirement 8 Notes	Requirement 8 Type
R9	All Stakeholders	Needs	Requirement 9	Period 9	Requirement 9 Notes	Requirement 9 Type
R10	All Stakeholders	Needs	Requirement 10	Period 10	Requirement 10 Notes	Requirement 10 Type
R11	All Stakeholders	Needs	Requirement 11	Period 11	Requirement 11 Notes	Requirement 11 Type
R12	All Stakeholders	Needs	Requirement 12	Period 12	Requirement 12 Notes	Requirement 12 Type
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R100	All Stakeholders	Needs	Requirement 100	Period 100	Requirement 100 Notes	Requirement 100 Type

Carly working on our process reflection slide deck. #meta



Team Chipotle bonding





Final Presentation of UOCD!