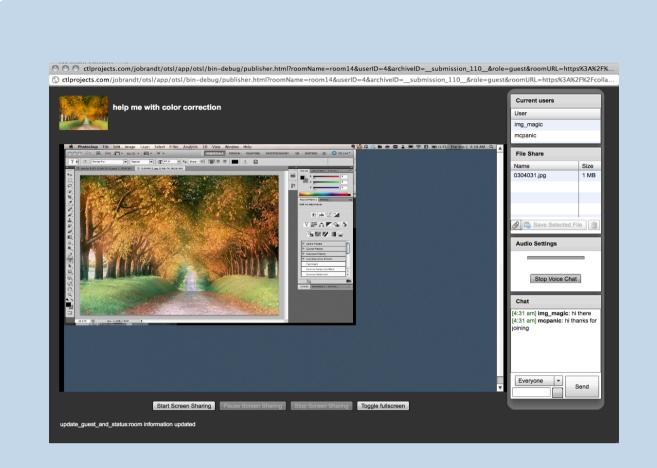
Photoshop with Friends:

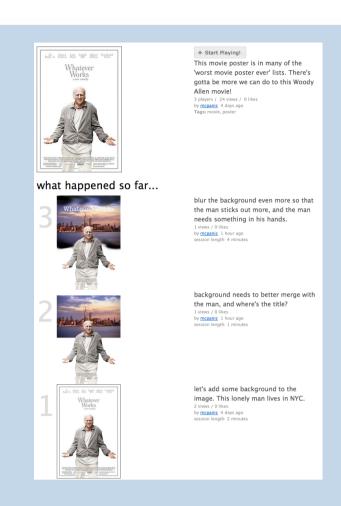
A Synchronous Learning Community for Photoshop Users

Juho Kim (MIT), Ben Malley (UMich), Joel Brandt (Adobe), Mira Dontcheva (Adobe), Diana Joseph (Adobe), Krzysztof Z. Gajos (Harvard), Robert C. Miller (MIT)



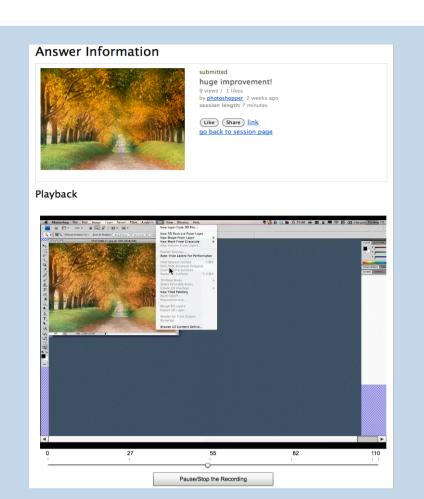
ASK & ANSWER

Synchronous Learning Support Q&A with screen sharing and voice chat



PLAY

Collaborate design & storytelling tasks
Engagement to promote learning



LEARN

Archived session recordings Review, reflection, further learning

Photoshop with Friends is an online learning community where learners can exchange just-in-time help and play collaborative games involving graphical design.

Collaborative Game Design

Research Question: How can a collaborative, synchronous graphic design task foster creativity and learning?

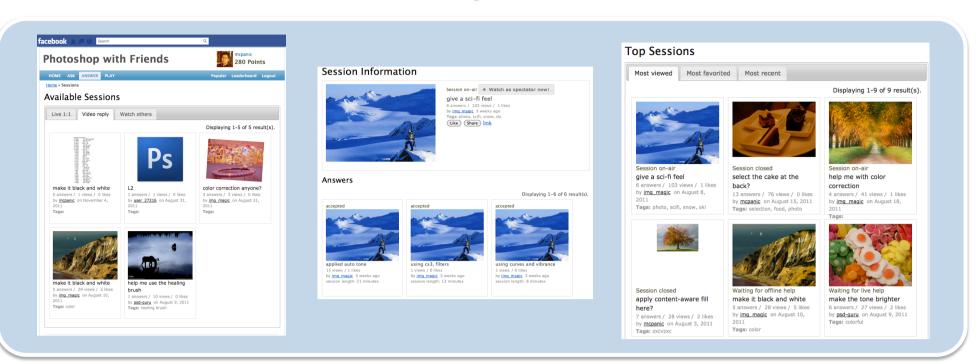
Ver I. Collaborative Collage

- time: 15 mins, collocated teams of 4-5
- different roles and collaboration models emerged
- combining effects, new memes, image search skills

Team I Team I

Design goals

- Support the visual language of design
- Encourage learning-by-doing
- Support various learning interactions
- Lower the overhead of synchronous sessions



Synchronous Q&A Design

Key Design Considerations

- Goal
- open-ended vs explicitly given
- Product oriented vs Process oriented
- capturing the process can lead to more learning
- Degree of synchrony
- completely vs partially vs asynchronous (or hybrid)
- Collocated vs Remote: transferring the benefits of collocation to remote over-the-shoulder learning
- Communication modality
- sharing of ideas, works, screens, reflections
- Constraints
- time: 3 mins? seed image: image library?
- Social interactions
 - support natural social conventions

Ver 2. Chaining Game

- time: 15 mins, I person at a time
- open-ended task
- building on top of other's work
- experiment aversion vs liberated
- implicit social interactions
- being additive, layer management
- sequence in the chain matters

