Multimedia Production Crash Course

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About Me: Multimedia Services Manager for Academic Computing at Stanford. Best part of my job: Toys and teaching toys

3D render by Yucel Yilmaz



- * 6200 undergrads living on campus, 4700 grads living on campus
- * 99% students own a computer, 90% own laptops

Photo by Kenneth Chan



- * Distributed computer support model. Peers as resource and educators
- * RCCs live with residents; approx. 1 RCC per 100 students

Photo by Jennifer Ly

Purpose

- * Why learn it? Why teach it? Digital media literacy is a basic skill.
- * Applicable to coursework: 15-min doc, website portfolio for final project
- * CS2C's mission: Get your feet wet, teach how to leverage resources, ignite passion

Photo by tatlin @ sxc.hu



Constantly taking inventory of goals, resources, culture. Experimental, with frequent revisions Biggest change: Distributed vs. standardized lesson plans

Photo by 123dan321 @ sxc.hu

Software



Software overview. Macs are key: consistency, features. iLife is preinstalled. Stanford uses Coursework / Sakai for assignment delivery. http://coursework.stanford.edu

Logos by Apple, Adobe, and Stanford



External HD: 500GB, USB/FW800.

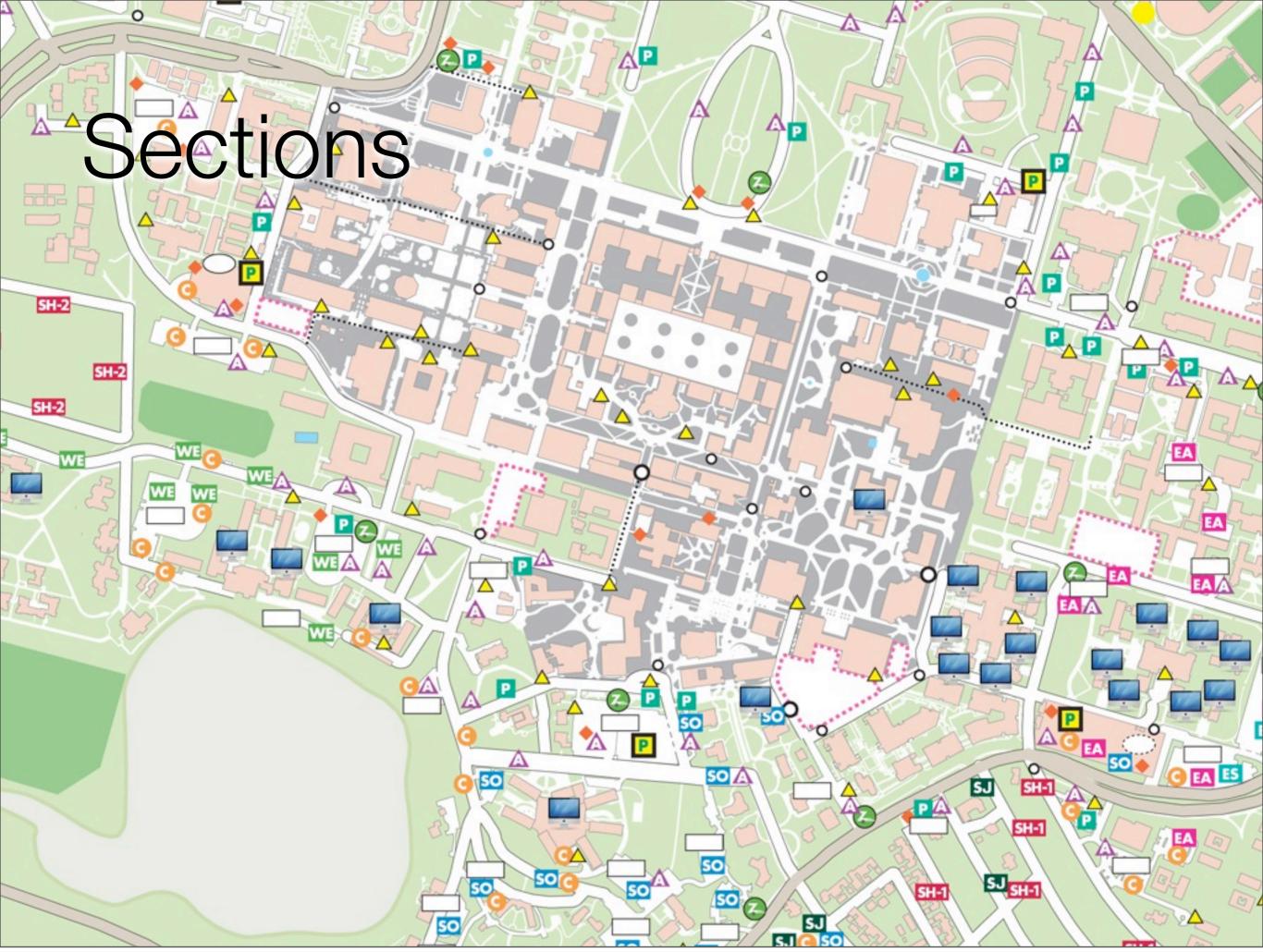
Camcorders: Canon miniDV, Flip Video HD, Canon HF20 Microphone: Rode VideoMic. Projector: Dell m409wx.

Checked out to RCCs. Equip also available at Meyer Tech Desk.

Not shown: Macs

http://meyer.stanford.edu/equipment_checkout

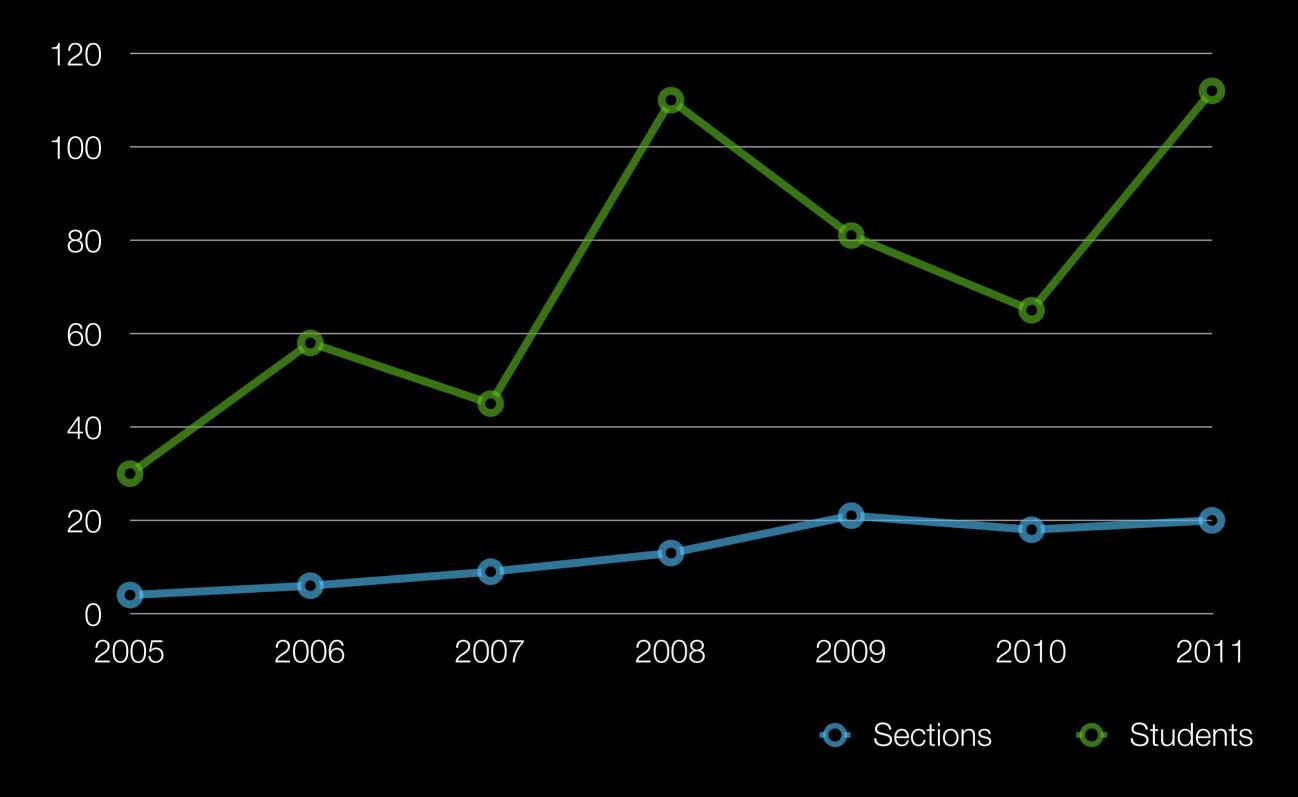
Photos by Canon, Cisco, Dell, Western Digital, Rode



Standardized curriculum, distributed learning environment.

Number of students: 112. Audit? So long as not taken up Mac

CS2C Class Sizes



- * Decreased numbers 2008-2010: Class got harder, more selective.
- Passing Rate: 82% (Drops/Withdraws/Incompletes: students who got too behind)
- * Presented at ResNet 2006: "Multimedia 101," Year 2
- * Another big change: Recognize two different mentalities: Tools and Projects
- * Record high enrollment & completion rate this year!

2005: 4 sections, 30 students, 7.5 average students per section

2006: 6, 58, 9.7 2007: 9, 45, 5

2008: 13, 110, 8.5

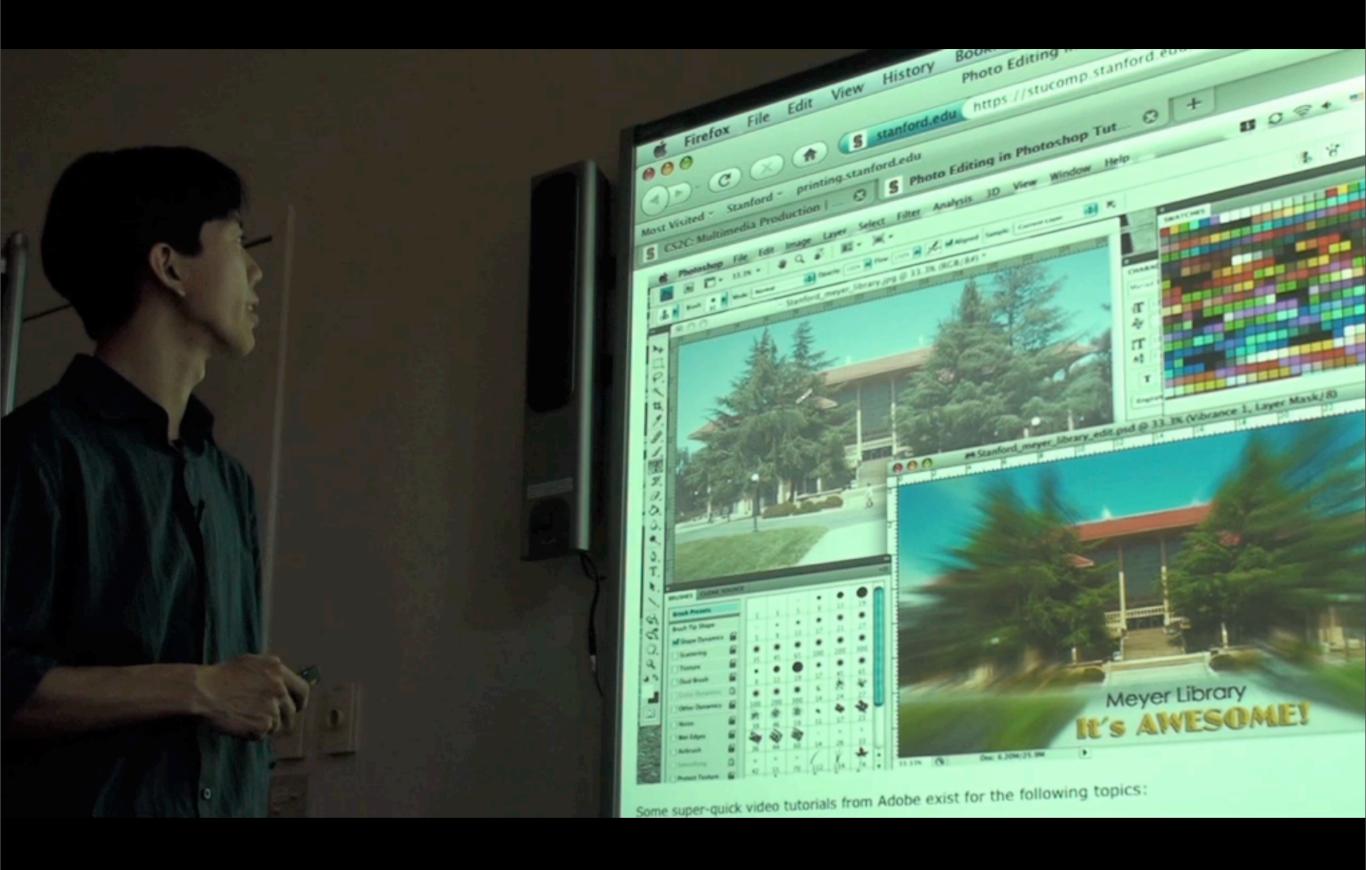
2009: 21, 81, 3.9 2010: 18, 65, 3.6

2011: 20, 112, 5.6, 56 one-units, 56 two-units



- * Approach: Modular curriculum of applicable skills
- * 1-unit tutorials-only version of class
- * Here is my vision of what the lecture/demo portion of class should be like...

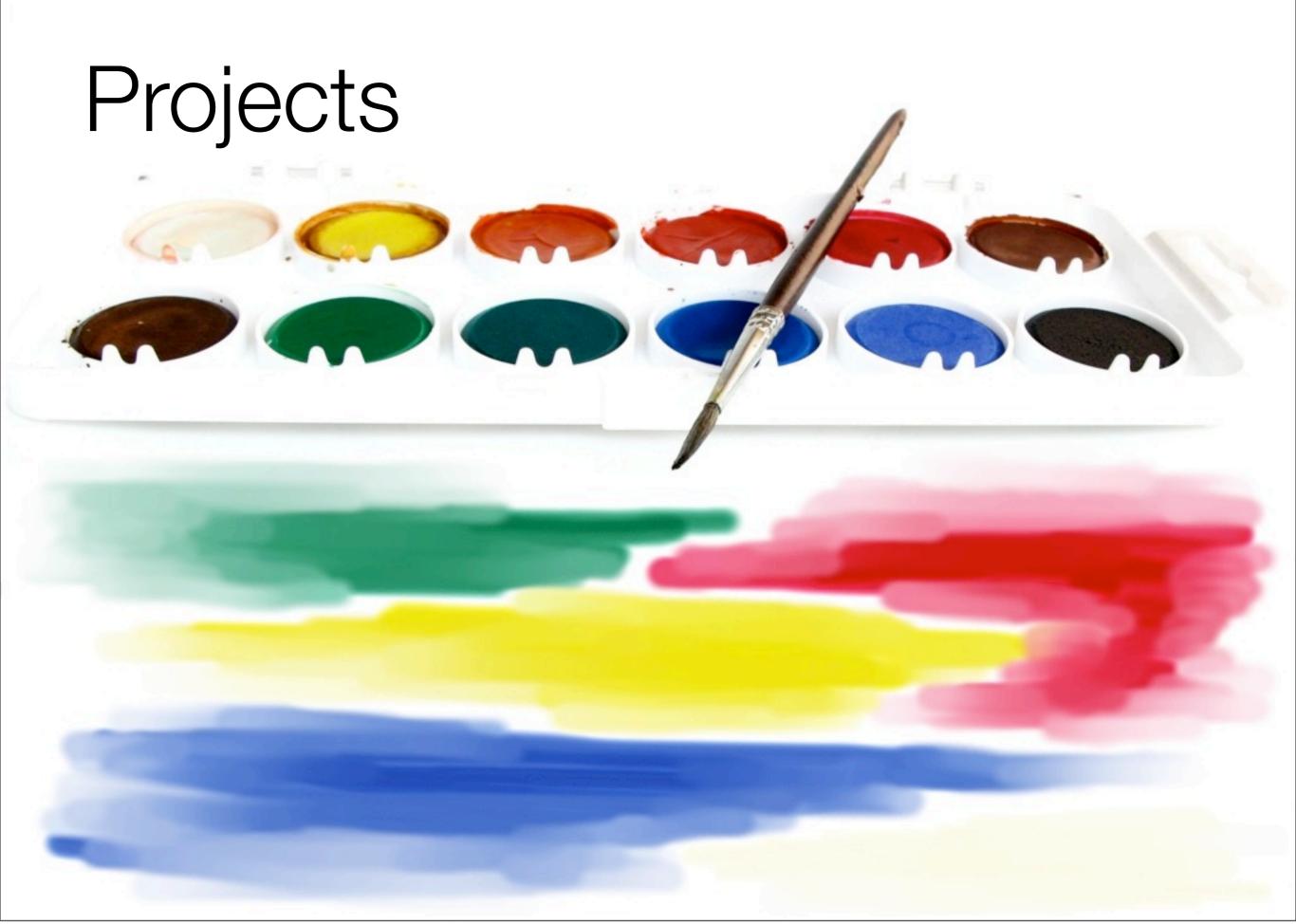
Photo by John Nyberg



[Video] http://www.youtube.com/watch?v=pszsK6R1QtU
Interactive SmartBoard as cool teaching tool.
Invite students to solve tasks together.

Sections are self-paced. Everyone gets started, and RCC answers questions.

Video by Kim Hayworth



2-unit tutorials + projects class. This is who we cater to. This is a production class. Expectation to create original work. Using the tools together. Watercolors: Not mixing. Play: Humor, fun. Complete class with real skills/work.

Photo by Zsuzsanna Kilian



RCC's suggestion: Lower bar for admission. Make it fun.

Screenshot shows some requirements: blue track, green track, fades, 30 sec [Music]

Cool GarageBand features: Multiple takes, Arrange Track, mix your own effects.

[Tutorial] http://acomp.stanford.edu/tutorials/garageband music composing



One photo only: Layer management, non-destructive editing Apply adjustments, filters. Play with it. Try combinations of functions. [Samples]

Cool Photoshop features: Layer masks, actions

[Tutorial] http://acomp.stanford.edu/tutorials/photoshop_photo_editing



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- * Editing: The art of what to cut
- * Meyer Closing Pilot. Voicemail

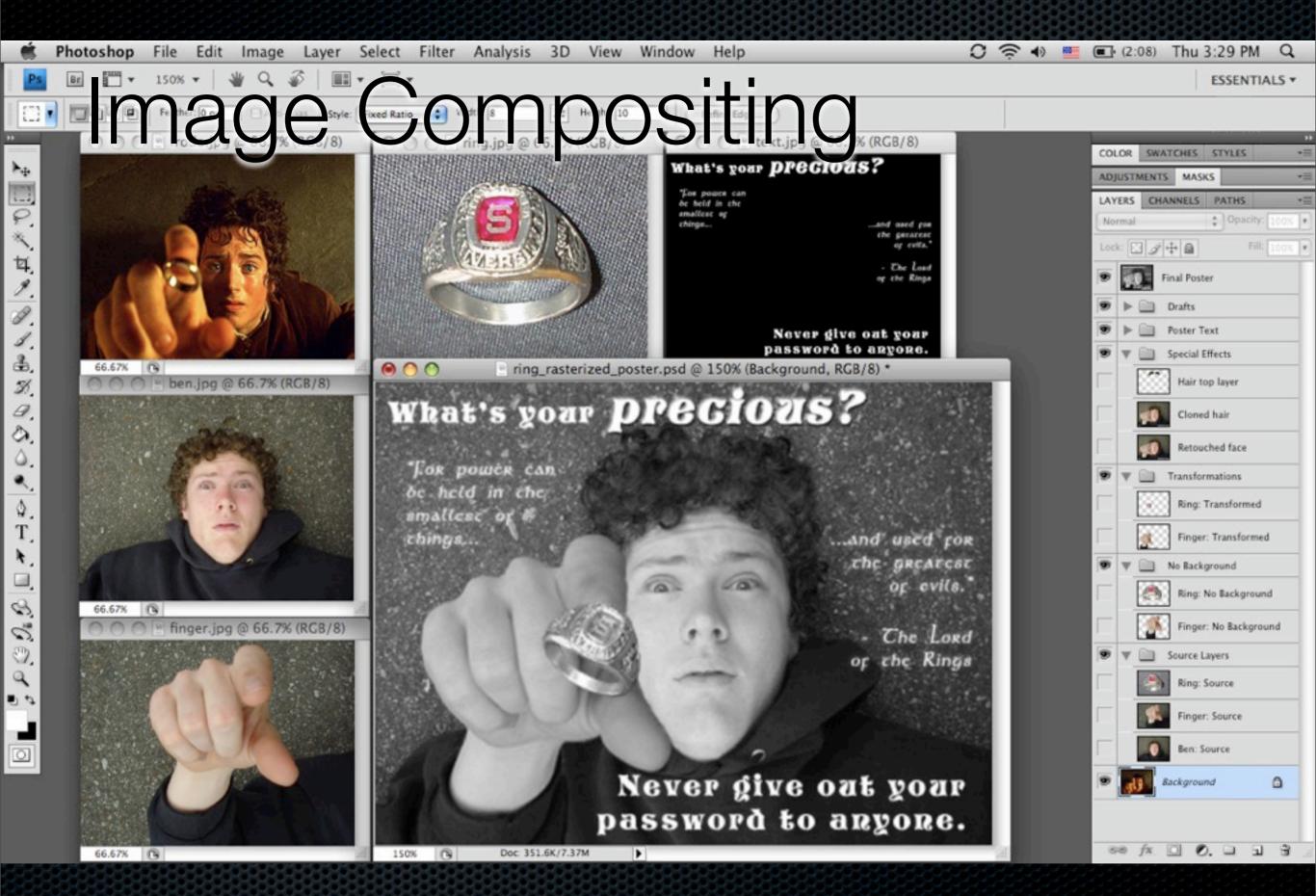
Cool GB features: Ducking is so-so. Enhanced tuning. Send Ringtone to iTunes.

[Tutorial] http://acomp.stanford.edu/tutorials/garageband audio editing



[Audio] http://www.youtube.com/watch?v=3808figJoBM
You can tell the work that went into audio project. Design and planning. Polish.

Photo by Fly For Fun @ Flickr.com



Continue layer management, non-destructive editing. Montage/mashup. Video overview

Photoshop: Layer adjustments vs. adjustment layers.

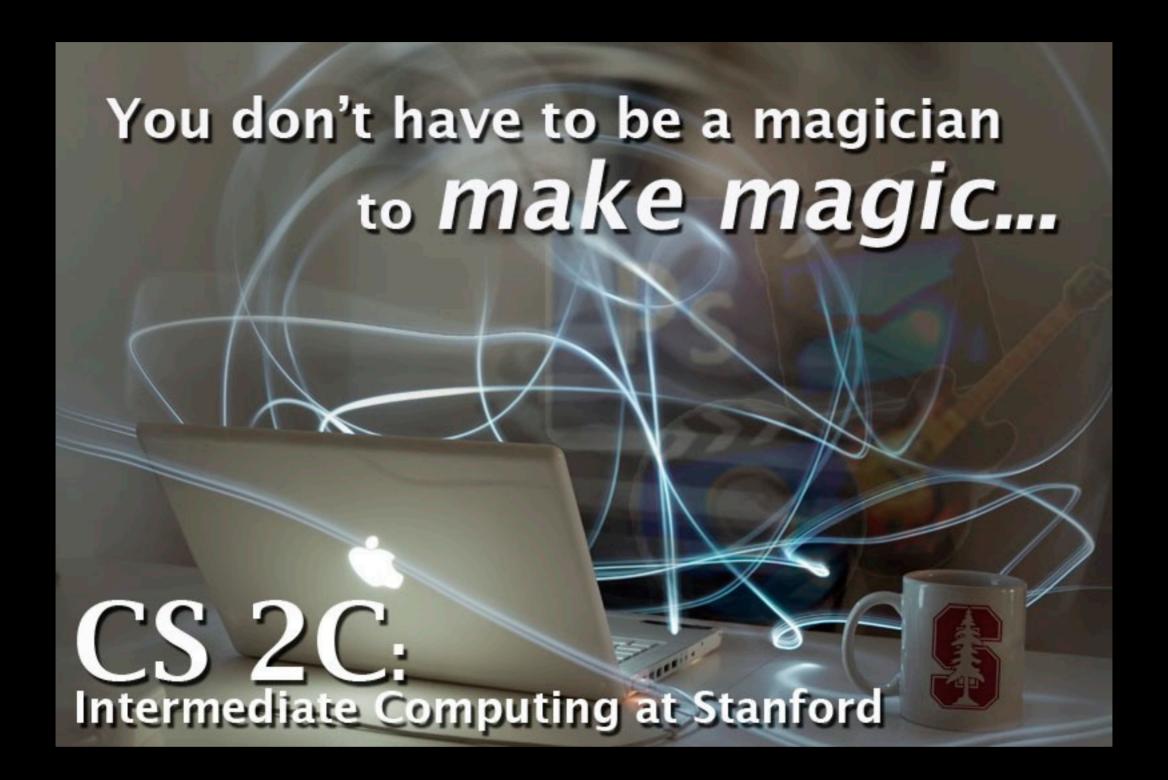
[Tutorial] http://acomp.stanford.edu/tutorials/photoshop_image_compositing

Image Compositing



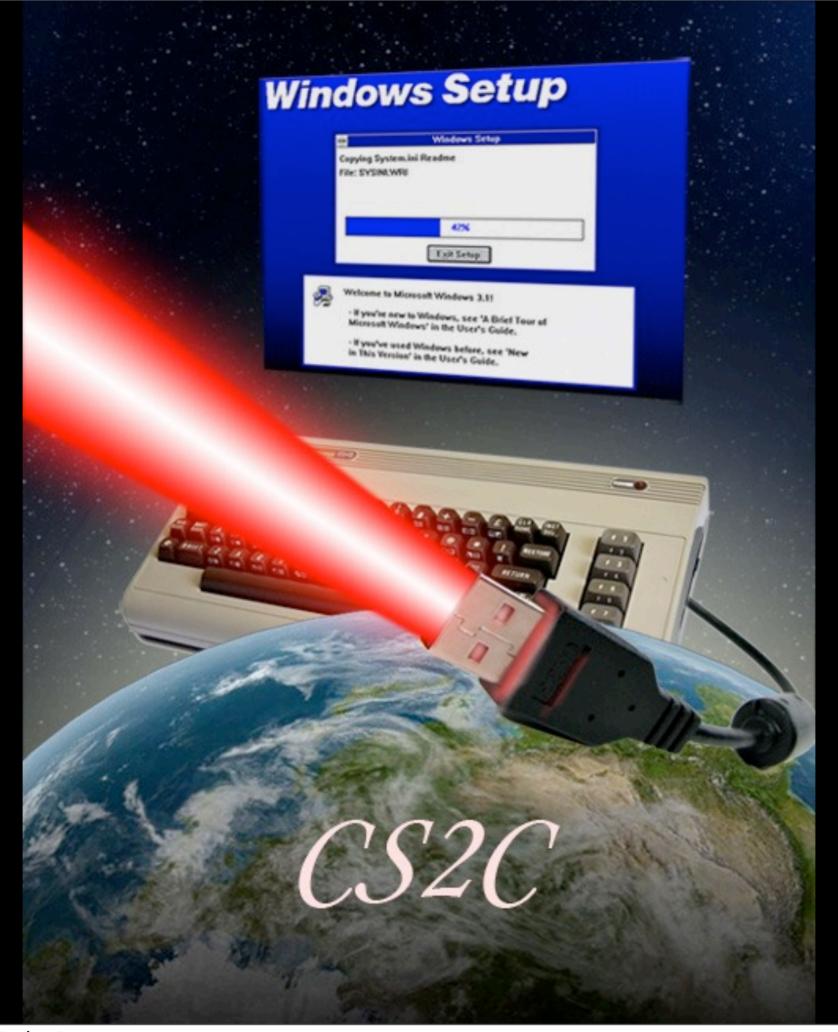
[Video] http://www.youtube.com/watch?v=mp2nWSleE2c
30-second Photoshop Image Compositing Simulation done in Final Cut

Photos by Kenneth Chan



Create an ad for CS2C Student Examples: Process

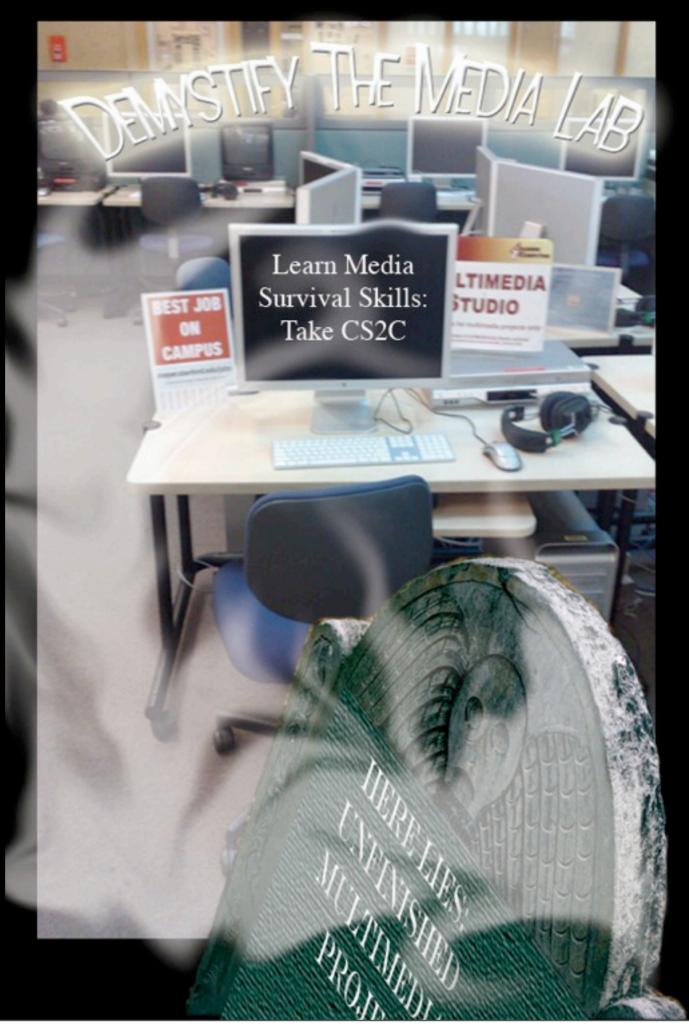
Photo by Qianwen Lin



Composites by CS2C students



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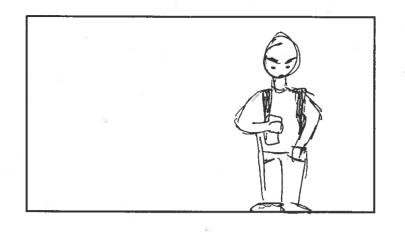
Mid-quarter: Video Pre/Production. Preparation and design process, before picking up camera. Foreign concepts.

Tutorial vids: Composition (rule of thirds), camera support, better audio, interviews

Pitch a one-liner, then build STORYboards: CS2C Trailer or title sequence: Camera POV. Story: Beginning, middle, and end

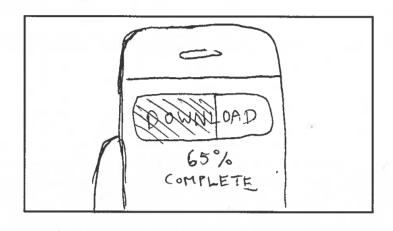
[Tutorial] http://acomp.stanford.edu/tutorials/video-production-basics

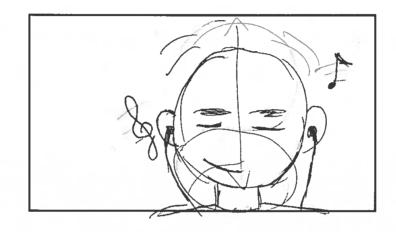
Photo by Trine de Florie

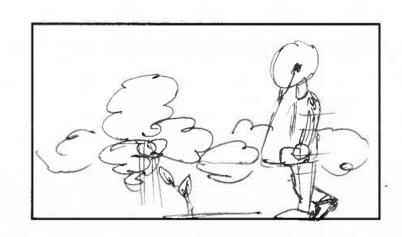


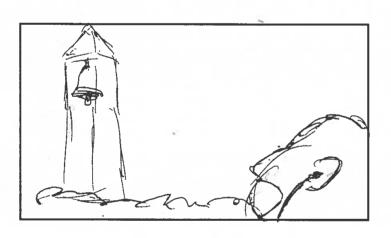


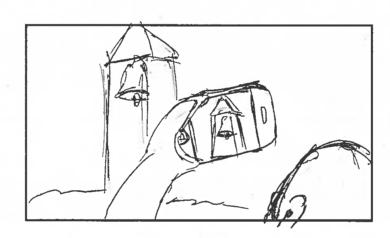


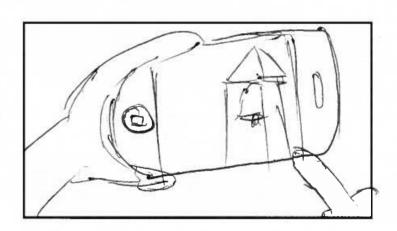






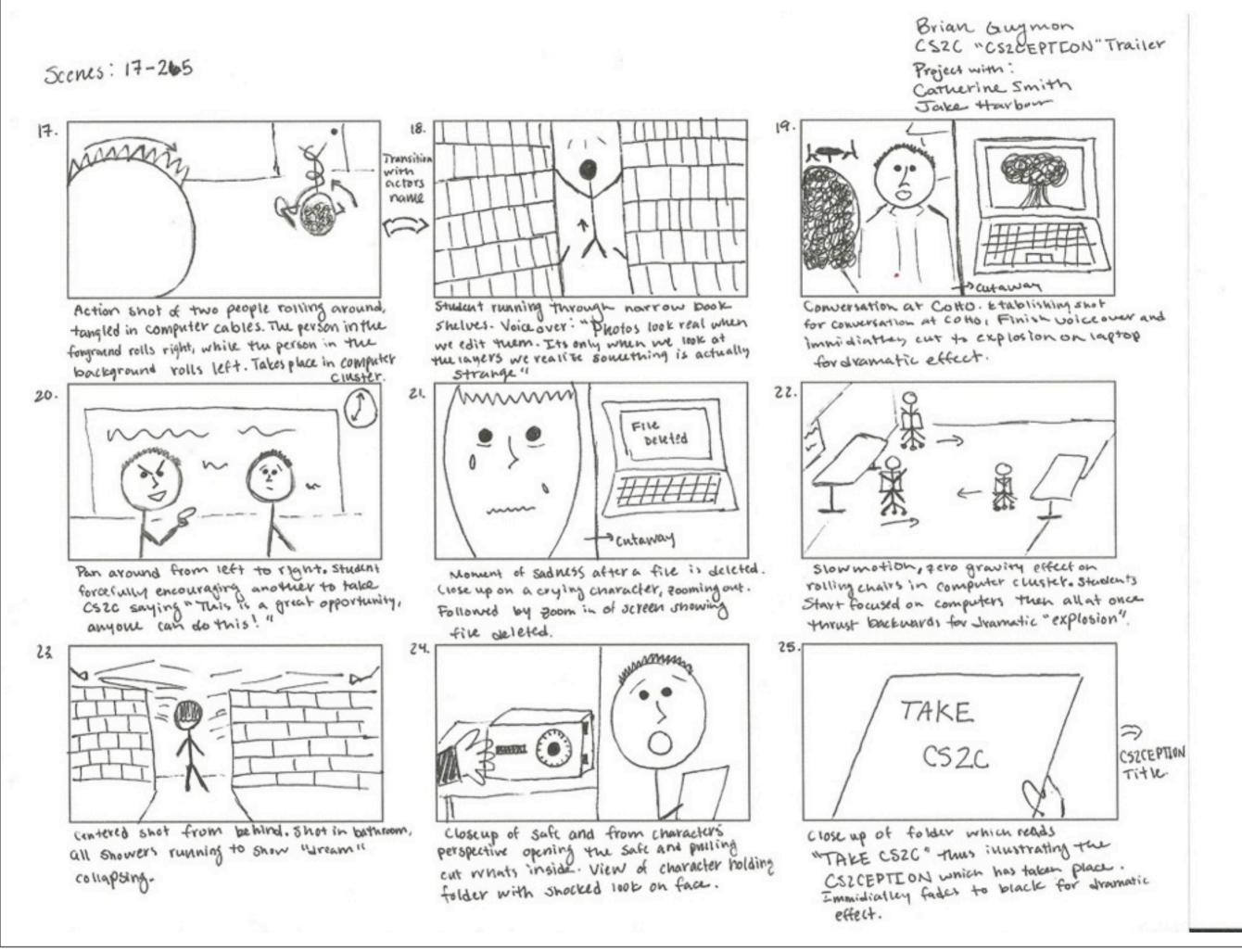






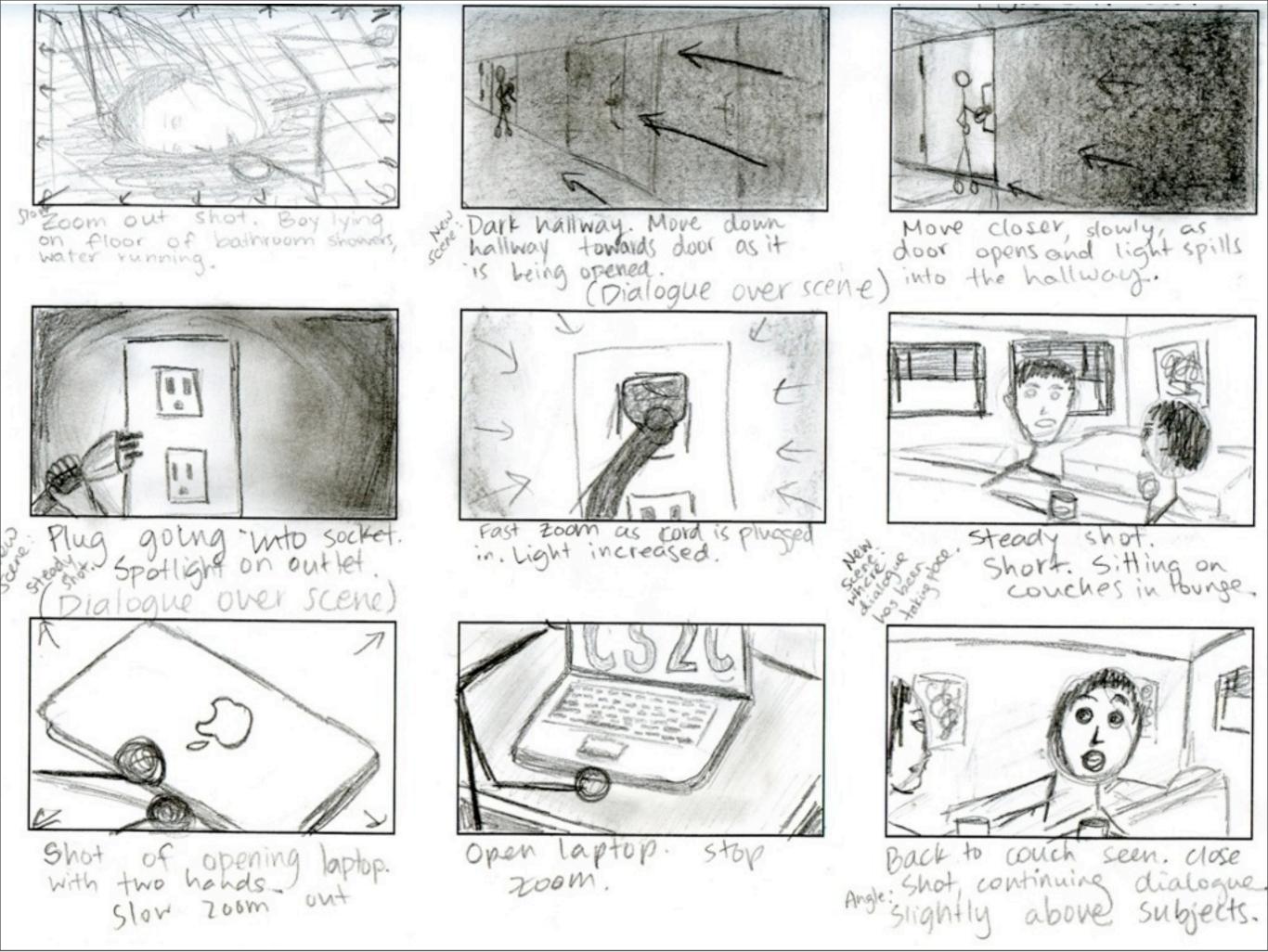
After approval, go out and shoot. Collaborate as group (good to define roles). Editing genres; critique and revision

[Tutorial] http://acomp.stanford.edu/tutorials/storyboarding



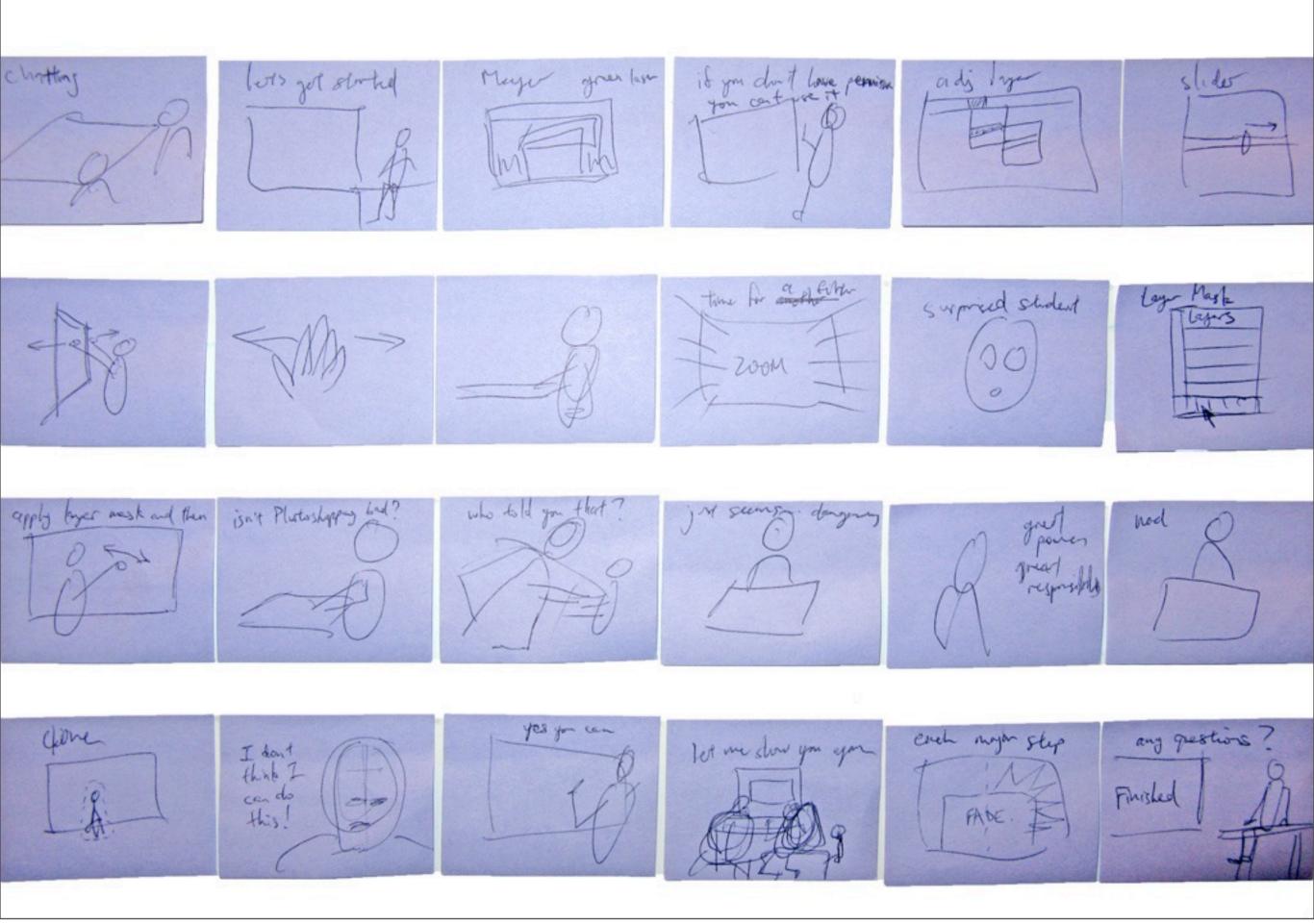
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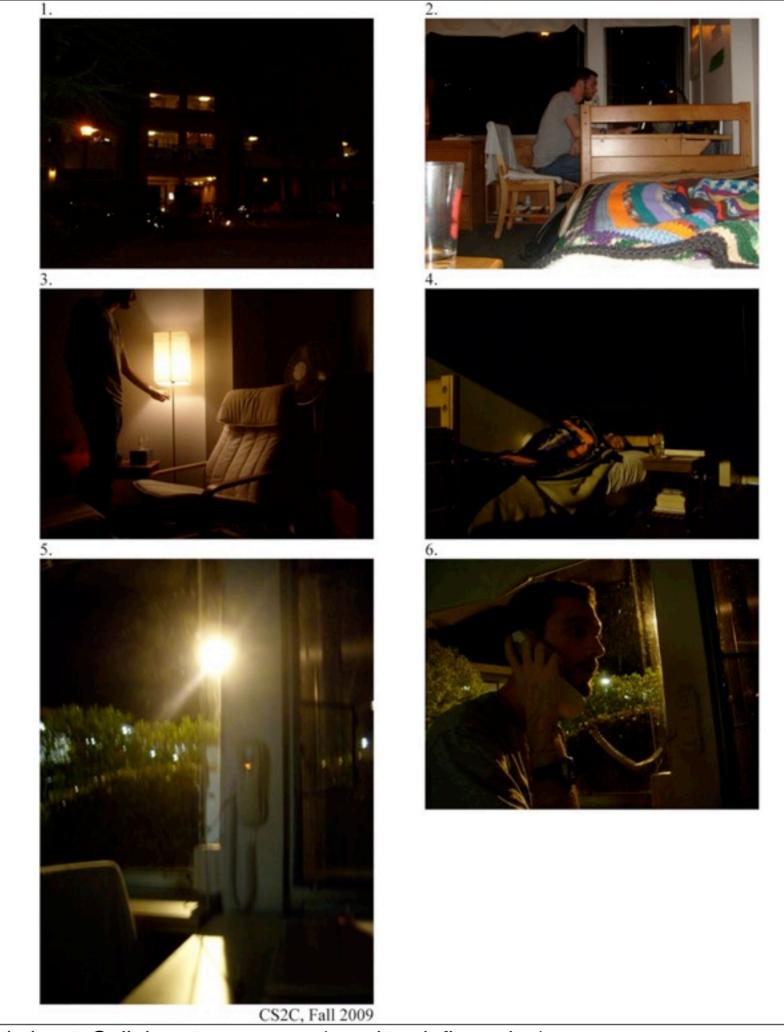
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Video Editing



iMovie 11 & 09 superior to 08 and 06. Haven't tried Win MovieMaker in long time Export to YouTube for CS2C playlist.

Cool iMovie 11 features: Green screen, audio waveforms, beat markers, timeline view, trailers, Cool iMovie 09 features: Pic-in-pic, animated travel maps, asset management, copy project to HD -- not just the project file!

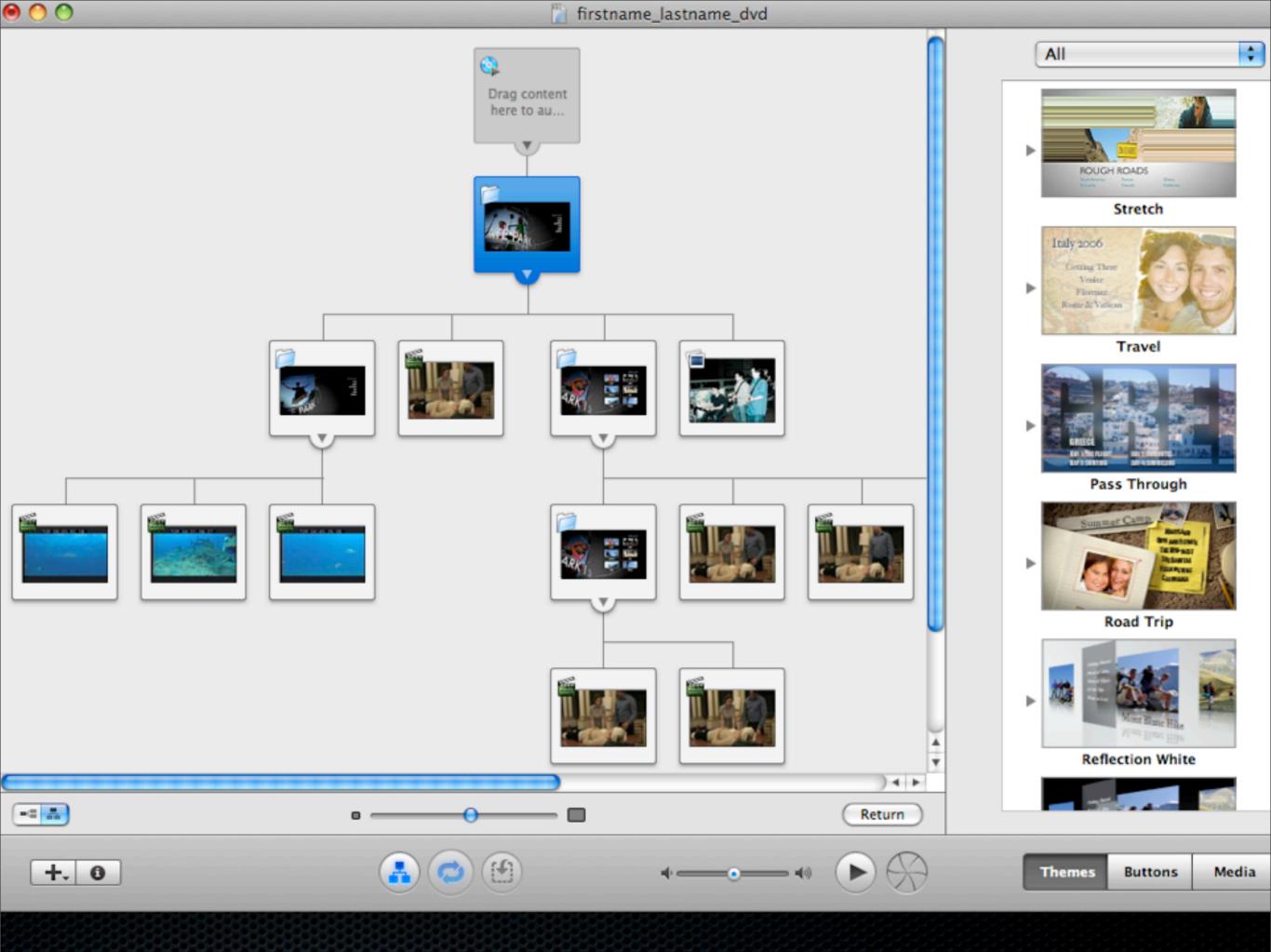
[Tutorial] http://acomp.stanford.edu/tutorials/imovie_video_editing



Self-contained package. Gift for recipient, no worries about format. Symphony of original projects, delivered as a tangible product.

Cool iDVD feature: Scene selection editing. Burn as Disk Image

[Tutorial] http://acomp.stanford.edu/tutorials/idvd_authoring



Screenshot to verify/enforce planning

Steve Jobs hinted at death of DVD in 2008



- * PowerPoint, Keynote; Web design and authoring
- * Main constraint: TIME
- * Other resources on campus to learn

Photo by Patrick Moore



Self-paced tutorials, take care of 1-unit.

Peer teaching; motivated RCCs, motivated students

Constraints on projects

Photo by Kenneth Chan



Class growth limiters: qualified RCCs, marketing to increase demand.

Turnaround time for grading. Clear rubric.

Mass storage, equipment inexperience. Computer cluster differences. Google is your friend, usually.

TIME: training time, lab time, face time

Image by Mark Evans



Student perceptions of quality standards -- show examples of good work. When to ask for help. Commitment to amount of work.

Past problems: Copyright in mashups; Overly open-ended projects: no focus, double-dipping self-plagiarism Empathy: The Struggle; understand your audience and how not to waste their time

* But what did the students think? Exit interview results

Photo by Steve Ford Elliott



[Video] http://www.youtube.com/watch?v=Cv0xSVD2ob4

* Shown at beginning of quarter

[Tutorial] http://acomp.stanford.edu/tutorials/screenshots



Take what's working and go deeper with it.

Clearer expectations, well-defined assignment constraints, overarching goal -- the video. In-class brainstorming to stimulate ideas. Iterative process.

Better delivery and project presentation among peers. Efficient grading, allowing for feedback and revision loop.

Digital Media Consultants: Analogous to writing tutors. Mandatory consult and revision. http://hwc.stanford.edu

Faculty support, cross listing, must-take class.

Working with Academic Technology Lab http://acomp.stanford.edu/atl to develop "How to create a multimedia assignment" workshop for faculty.

Contests: Photoshop posters, Same Day Edits

CS3C: Feet wet, learned to swim. Who wants more?

Photo of Churaumi Aquarium by Fumio Kaneko

Questions?

- Kenneth Chan, <u>niftyken@stanford.edu</u>
- Class: http://cs2c.stanford.edu
- Learn: http://www.apple.com/ilife/resources
- Stock photos and videos from http://www.sxc.hu, http://www.footagefirm.com, http://www.kennethphotography.com
- Eval: http://resnetsymposium.org/rspm/evaluation

The CS2C class site http://cs2c.stanford.edu presents syllabus, class expectations, grading criteria, recommended online resources, sample work.

Motion graphics by FootageFirm.com