



**SCHOOL OF COMPUTING**  
CS 4500 SENIOR CAPSTONE  
**DEMO DAY**

**APRIL 29, 2015**

**Catmull Gallery**

**1:30 - 4:30PM**

**AWARDS & JUDGING 4:30 - 5:00PM**

# Catmull Gallery



2A: Vivo  
2B: C&K

3: FDE

4A: Kairos  
4B: The Loons

1A: Undefined  
Parameter  
1B: MU

5A: Soudsplosion  
5B: PhrAG

10A: Floating Head  
10B: In Progress

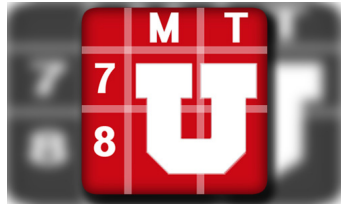
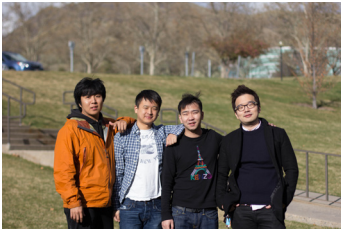
6: Galdor Lareth

9A: Prism  
9B: Leafy

8A: Lorem Ipsum  
8B: Green Receipt

7: Void\*

Table 2B



**Team:** C&K

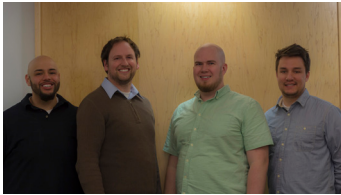
**Project name:** Inclass

**Team members:** Young Soo Choi, Seongman Kim, Yu Shao, Sicheng Xin

**Website:** <http://uuinclass.com/mainpage/index.html>

**Project description:** Inclass is a social media application that will help you navigate through life in college. Inclass will keep track of all your classes and tasks with a built in scheduler. Class specific forums will ensure you never have to worry about finding a partner, creating a study group, or finishing an assignment. Outside of class, you can share your university experiences and events with all other students by posting Uments. See an event you want to attend? Save the Ument to your scheduler so you never miss an event or party on campus. Inclass will merge your academic and social schedule to help you have a diverse and successful University experience.

Table 3



**Team:** FDE

**Project name:** Cents

**Team members:** Wesley Gormley, Austin Hammer, Junior Matelau, Michael Smith

**Website:** [www.trycents.com](http://www.trycents.com)

**Project description:** Cents is a financial decision engine: a way to help potential and current college students realize the impact of their educational and vocational choices. Cents has been built by acquiring information from prospective users, current academic advisors, and the best data sources on the Internet, which come together in a complete package to make it an easy-to-navigate and always-accessible career guidance counselor. Cents provides information, in a very intuitive way, that will allow users to prepare for their education, understand their career options, and visualize their future expenses.

Table 10A



**Team:** Floating Head

**Project name:** Anomalous

**Team members:** Greg Berrett, Corey Hinton, Andrew Johnson, Rory Savage

**Website:** <http://www.teamfloatinghead.com/>

**Project description:** Anomalous is an iOS app that uses oil and gas pipeline data to help field technicians locate dents, cracks, corrosion, and other anomalies in a pipe, enabling them to more effectively locate what needs to be repaired. The pipe and anomalies are plotted on a Google Map view for assistance locating the pipe from a distance. Once in the field, the augmented reality feature acts as a window to visualize the pipe and anomalies in the real world. Notes and photos can be taken and associated with specific anomalies in the field, later uploaded to the database for viewing on the Anomalous website. This all combines to make an excellent way to locate anomalous pipes!

Table 6



**Team:** GaldorLareth

**Project name:** Bimey

**Team members:** Andrew Hendrix, LJ Johnson, Tyler Martinsen, Ryan McMillan, Crystal Vivian

**Website:** blimey.com/gameteam

**Project description:** Meet Bimey, a mild mannered bunny living in the forest minding his own business; that is until his forest is taken over by a mysterious dark mist. Play through as Bimey or one of his friends; Sabian the squirrel (who ponders his own existential existence), or Fernelia the frog (the sensible one of the bunch) and attempt to find and defeat the source of evil in the forest in order to reclaim their peaceful world. But beware, not all is right for Bimey after a run-in with the evil leader Rollypollicus. Interesting things begin to happen to this bunch after Bimey is captured. Available for PC and Mac and coming soon to Playstation, Bimey is a fun exploratory 2D game for players of all ages, providing enjoyment and fun in a familiar side scrolling fashion.

Table 8B



**Team:** Green Receipt

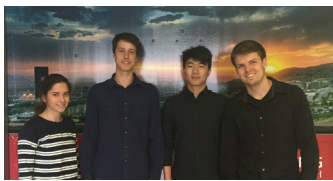
**Project name:** Green Receipt

**Team members:** Alex Gritton, Boya Song, Jordan Wanlass, Jingong Zheng

**Website:** www.greenreceipt.net

**Project description:** Anyone who has ever had to keep track of receipts knows how annoying and disorganized this can be. Green Receipt will take away that hassle by storing all of your receipts in a digital format. By doing this, you will have access to them on your phone and from the Green Receipt website so you never have to worry about losing them again. To keep you even more organized, Green Receipt will allow you to set up reminders for when you need to return a purchase by. On top of that, Green Receipt will take your receipts and give you useful financial analysis from the information they provide. Likewise, you can now set realistic budgets that are based around your personal spending habits. Green Receipt makes keeping and organizing your receipts a breeze as well as educates you on how you spend your money, how you will spend your money and how you can save money.

Table 10B



**Team:** InProgress

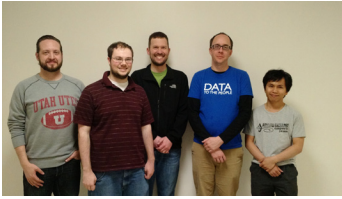
**Project name:** BitDiv

**Team members:** Natalie McMullen, Michael Scutt, Karl Tharp, Guanxiong Wu

**Website:** eng.utah.edu/~mcmullen/BitDiv\_Stripped/html

**Project description:** BitDiv is a web-based stock analysis, visualization hub and social media site that will help all investors research their investments. Existing sites with similar goals are very static, providing data on request and without context of the user or the user's financial goals. Getting started can be intimidating and confusing to new investors. BitDiv looks to bridge that gap, providing a tool that is both able to improve productivity, and interactively help its users better understand the markets. Advice and help is given to the user as they move around the site. The experience is tailored to the user as they progress through the process of investing.

Table 4A



**Team:** Kairos

**Project name:** Kairos

**Team members:** Tyler Chapman, Nate Crandall, Vinh Dang, Vince Oveson, Tony Tuttle

**Website:** <http://kairos-api-docs.herokuapp.com/about>

**Project description:** Kairos is an online scheduling tool intended for use by convention planners, small group managers, university departments, small companies, and anyone else with sufficiently complex scheduling problems. Development of the Kairos system was heavily influenced and inspired by our test users, the University of Utah School of Computing faculty and staff in charge of planning class schedules. Having these test users motivated us to create a valuable tool to simplify schedule planning as well as eliminate much of the manual data entry and analysis that is part of the current process. The resulting system is a fully functioning web application for the School of Computing that we hope will continue to be used long after we are done developing it. In addition to the School of Computing module we have made our core schedule solver available to anyone who wants to use it. We look forward to seeing what users may take advantage of our API to plug in to our solver and adapt it to their needs.

Table 9B



**Team:** Muntaser Bin Omar

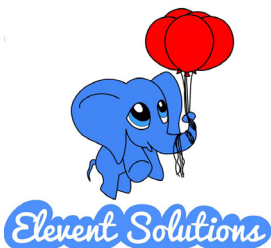
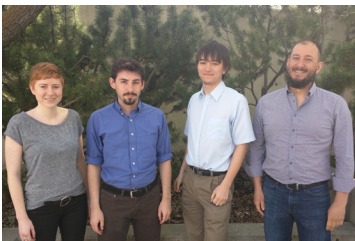
**Project name:** Leafy

**Team members:** Muntaser Bin Omar

**Website:** <http://uofu-cs4540-5.cloudapp.net/Projects/leafy/>

**Project description:** Leafy is an Android-based image-processing application; it provides an innovative way to provide biologists and current college students with the accurate measurements of a leaf. Leafy will utilize image-processing methods to compute intrinsic leaf properties. Calculations will calculate length, width, and area of the blade, find the symmetry percentage, and other useful information about the leaf. Leafy will expedite the work of biologists and allow them to gather more information about a leaf in a short period of time.

Table 8A



**Team:** Lorem Ipsum

**Project name:** Elevent

**Team members:** Leslie Baker, James Bloom, John Clukey, Oscar Marshall

**Website:** [elevent.solutions](http://elevent.solutions)

**Project description:** Elevent is a large-event management application that provides a smooth experience for all stages of the event lifecycle. From planning activities for your next corporate convention, to handling check-in at your academic conference, Elevent has you covered. Using our application, event organizers can easily plan their event and set up smaller activities that occur during the event. Organizers can also invite others, manage attendees, and view statistics about their events. Attendees are able to use Elevent to register and pay for events, and plan out the activities they will attend. Elevent Solutions provides the best possible experience for event organizers, attendees, and everyone in between.



Table 1B



**Team:** μ

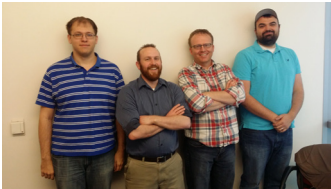
**Project name:** Defero

**Team members:** John Wissler, Joseph Cravotta, Ryan Finn, Owen Krafft

**Website:** <https://projectdefero.com/#about>

**Project description:** Defero is a VoIP application that provides secure video, voice, and text communication that runs natively in your web browser. With Defero you can create permanent user accounts and chat rooms to collaborate with your friends, or you can join someone's existing chat room as a guest by simply following an invitation link. Defero uses WebRTC to provide peer-to-peer, end-to-end-encrypted communications, so your messages are never stored on a server and nobody but your friends can read the messages you send. Advanced users and businesses can host private servers to further improve their security through complete ownership of their data, all the way down to the user accounts and chat rooms. However you choose to use Defero, you'll never have to install plugins or other applications: just open up your web browser and begin chatting!

Table 5B



**Team:** PhrAG

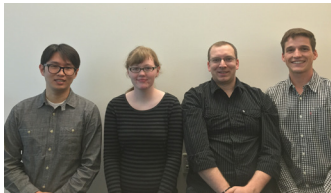
**Project name:** Flux

**Team members:** John Skyler Chase, David Onken, Michael Banks, Andrew Clark

**Website:** <http://senior-06.eng.utah.edu:53241/>

**Project description:** Are you ready for a unique game experience? Then get ready to play Flux! Flux is a twist on logic puzzles and shooter games in an original, exciting, and addictive mobile title. Enjoy over 30 levels of single player action, or mix it up with one of our mini-games. No matter what you play, be prepared to explore, adapt, and change your strategy. Think you can beat Flux? Then pick up your Android device, download, and give it a sho

Table 9A



**Team:** Prism

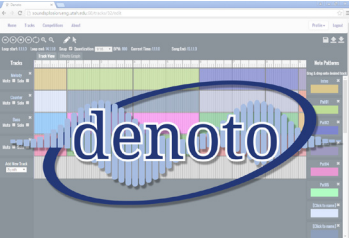
**Project name:** Prism

**Team members:** Trudy Firestone, Cody Foltz, Alma Knudson, Yepyoung Oh

**Website:** <http://www.codablo.com/PrismLights>

**Project description:** The Team Prism project allows Philips Hue Light owners full control over their lights from their iOS and Android phones. Hue Light owners can control their lights manually by turning them on or off and setting their color or brightness. Schedules go beyond manual control of the bulbs by allowing Hue Light owners to define alarms, timers, and color cycles. Hue Light owners can control their bulbs with voice commands as well as having their Hue Lights change to music in real time. Prism Light's key feature is the indoor position tracking with bluetooth beacons which will allow for Hue Light owners to set rules for the bulbs based on their location in their home. This effectively creates a way for Hue Lights to follow their owners as they move through their home. By allowing users to use timers, alarms, music synchronization, and rules based on position, Prism Lights enhances the Hue Light experience.

Table 5A



**Team:** Soundsplosion

**Project name:** Denoto

**Team members:** Tim Grant, Spencer Phippen, Tim Winchester, Jeongun Yu

**Website:** <http://denoto.rocks>

**Project description:** Anyone can write a Christmas song, but who can write the best Christmas song -- using only a music box sample, the sound of a door closing, and a line reading from Macbeth -- in an hour or less? Denoto is a web-based music creation platform with features geared towards competition between users. Our goal is to make it fun and easy for users to create and share music. Adding an element of light-hearted competition to the mix will help our users reach new creative heights. Denoto provides a fun and low-pressure environment for novice users to hone their craft and get feedback on their compositions. For more experienced producers, Denoto offers a streamlined way to both host and participate in competitions. Come have fun, compete with your friends, and explore your musical side with Denoto.

Table 5B



**Team:** The Loons

**Project name:** SportIM

**Team members:** Jeffrey Brock, Hannah Brock, Steven Burnett, Doug Hitchcock

**Website:** <http://www.sportim.org>

**Project description:** SportIM is an open source sport statistics tracking system with integrated player, team and league management. By providing a plugin-based statistics tracking method, SportIM fills a long-lived gap in the amateur sports landscape. It allows for scheduling matches, practices, and tournaments and sending alerts to remind participants of these events. Additionally, team coaches and league administrators can track their players' and teams' progress throughout the season through intuitive statistics collection interfaces. With these features, SportIM provides a much-needed pairing of sports team management with quantitative measurements of team progress.

Table 1A



**Team:** Undefined Parameter

**Project name:** QuizZing

**Team members:** Blake Bartlett, Braeden Bodily, Joseph Lee, Melynda Lindhorst

**Website:** <http://myquizzing.com/>

**Project description:** QuizZing is an exam preparation tool founded on the principle that multiple minds are better than one. The open-ended system design and emphasis on social networking allow users to collaborate to prepare for exams, certification tests, interviews, or testing their knowledge on a plethora of subjects. Many academic- and entertainment-based systems already exist; however, those services do not provide a way for true collaboration nor do they have content catered to a user as an individual. QuizZing provides these qualities by allowing users to create and manage their own organizations and groups to cater to any content they want. Users will be able to use the innovative features provided by QuizZing to automatically or manually generate their own study guides and quizzes. Having the ability to create or generate quizzes with multiple question types will provide QuizZing users with a quiz best suited to their learning style. QuizZing strives to turn the test preparation process into an effective, productive, and engaging learning experience.

Table 2A



**Team:** Vivo

**Project name:** Vivo

**Team members:** David Evans, Dan Henriksen, Jeff Jacobsen, Jace Wardell

**Website:** <https://vivoapp.herokuapp.com>

**Project description:** Vivo is a competitive social network where you and your friends compete to gain achievements and rewards. It's similar to how Xbox Live has achievement points, and Playstation Network has trophies. Using Vivo and your Android device, you will have the opportunity to receive achievements in your everyday life, and you will also be challenged to leave your comfort zone in order to get even more achievements. Friends and others you may or may not know, are able to join user-created groups and these groups are able to create achievements and push them to their followers. Anyone from the average user, to a university, to a company can create their own group and even offer rewards for receiving an achievement or set of achievements. Using both the app and the website, users can view their groups, achievements, and other aspects of their account in an easy-to-use format. By using Vivo, users will achieve more and be rewarded by creating new experiences and being more adventurous.

Table 7



**Team:** Void\*

**Project name:** OneRoof[a]

**Team members:** Evan Gould, Ryan Sargent, Taylor Stapleton, Jason Vuong

**Website:** <http://voidstarapi.azurewebsites.net/>

**Project description:** Our primary goal with OneRoof[a] is to create a system that makes managing the logistics living together easier. This is a worthwhile endeavor due to the chaotic and frustrating nature of sharing your living space with other people. With a focus on automation and record-keeping, our application will be able to manage household chores, split shared bills, and handle direct money transactions, all in the spirit of facilitating communication with other housemates.

[a]Gotta have that branding.