December 8, 2009 @ Northwest Science Labs.

Earn stickers from students and earn chances to win the raffle!
See inside for more details.

Name: ____________________________
E-mail: __________________________
Phone: __________________________

PLACE STICKERS HERE!
Welcome to the CS 50 Fair! CS 50 is a first course in computer science for concentrators and non-concentrators alike. More than just teach you how to program, this course teaches you how to think more carefully and how to solve problems more effectively. As such, its lessons are applicable well beyond the boundaries of computer science itself. That the course does teach you how to program, though, is perhaps its most empowering return.

The climax of this course is its final project, an opportunity to take your knowledge of programming out for a spin and develop your very own piece of software.

You can take CS 50 at the College or through the Extension School (as CSCI E-52).

On exhibition today are the accomplishments of Fall 2009’s 300+ students. This is the CS 50 Fair. This is CS 50.

The raffle

Whether you are a student in CS 50 or just here to see some projects, you are eligible to partake in today’s raffle. Earn stickers from students and earn chances to win!

**Step 0:** Ask each student whose project you see for a sticker.

**Step 1:** Apply that sticker to this program’s cover, up to a maximum of 12.

**Step 2:** Tear off this program’s cover and drop it in the raffle box on your way out.

A cover page with $n$ stickers means $n$ chances to win one of today’s prizes!†


Check [www.cs50.net](http://www.cs50.net) tomorrow to see if you’ve won!

†You can only get a maximum of 12 chances, though we encourage you to see more projects!
fun facts

What kind of projects are here?

- Android App: 15
- Facebook App: 20
- Firefox Add-On: 5
- Game: 22
- Google Wave Gadget: 3
- iPhone/iPod App: 14
- Linux App: 2
- Mac OS App: 2
- Mashup: 37
- SMS App: 15
- Tool: 47
- Visualization: 15
- Voice App: 5
- Website: 193
- Windows App: 13
- Other: 13

What languages were used for the projects?

- ActionScript: 11
- App Inventor: 11
- C: 21
- C++: 5
- C#: 1
- CSS: 86
- FBML/FQL: 9
- Java: 26
- JavaScript: 155
- MATLAB: 2
- Objective-C: 13
- PHP: 225
- Processing: 3
- Python: 3
- R: 1
- Ruby: 2
- SQL: 146
- XHTML/HTML: 198
- XQuery: 3

Who's in the class?

- Sophomores: 170
- Juniors: 57
- Seniors: 39
- Freshmen: 66
- Extension: 29
- Grad: 6

Prior CS Courses?

- One: 21%
- None: 72%
- Three or more: 3%
- Two: 4%
- None: 72%
- One: 21%
- Three or more: 3%
- Two: 4%

Why's taken AP CS?

- 14% have
- 86% haven't

Comfort Level with Computers (back in September 2009)

- "more comfortable": 13%
- "less comfortable": 43%
- "somewhere in between": 44%

Who's running what?

- Concentration: 57%
- Core: 3%
- Elective: 42%
- Gen Ed: 9%
- Windows Vista: 38%
- Windows XP: 18%
- Linux: 6%
- Snow Leopard: 9%
- Windows 7: 4%
- Leopard: 39%
the projects

TOOL, VISUALIZATION, WEBSITE

6 Degrees
Rick Goldstein ’12, Statistics; Ashin Shah ’12, Applied Mathematics
An application to measure distances across social networks.

WEBSITE
Academia
Jacek Rycko ’10, Economics
A website allowing academics to collaborate: exchange messages, post files, and form research groups.

FIREFOX ADD-ON
Access and Watch Your/Your Friends’/Anyone’s YouTube Favorite Videos
Chung Yao Yu ’12, Chemical and Physical Biology
A Firefox Add-on that empowers you to browse through your friends’ favorite videos.

TOOL, VISUALIZATION
Afternoon Concert Generator
Shiya Wang ’13
A quintessential tool for the WHRB classical music DJs!

GAME
Air Dodgers
Scott Roben ’12, Visual and Environmental Studies
Bring this bird safely to the other side!

ANDROID APP
Almost There
Tal Oppenheimer ’12, Neurobiology
An android application the allows you to automatically text someone when you are a certain number of miles away from arriving at a location.

ANDROID APP
An Android’s Star Chart
Christopher Madl ’12, Engineering Sciences
An interactive, detailed star chart for astronomers on the go.

ANDROID APP
Android Arcade
Melissa Niu ’13; Konlin Shen ’13
Four mini-games for the Android Phone.

TOOL, WEBSITE
ArrowPusher
Peyton Shieh ’10, Chemistry
Draw and share organic chemistry online!

ANDROID APP
Aster&Droid
Naor Brown ’13; Wen-Yuan Yao ’13
A classic shooting game with Google Android’s accelerometer and compass!

IPHONE/IPOD APP
Asthma Guidelines for the Iphone
Hannah Gommerstadt ’13; Gabrielle Ehrlich ’13
An Iphone application for doctors to use that deals with asthma.

WEBSITE
Author Updates
Luke Salisbury ’12, Engineering Sciences (SB)
A website that notifies you when your favorite authors publish new works.

TOOL
Automated Musical Arrangement
James Winter ’11, Applied Mathematics
A website to aid in beginner jazz arranging.

VISUALIZATION, WEBSITE
Automate Poetry
Caroline Cuse ’13
Create poems with randomness and see your results!

WEBSITE
Automated Trading System Simulator
Charles Li ’12, Computer Science
A website that allows users to calculate the profit made by a simple trading system.

WEBSITE
Awkward Turtle
Lauren Russell ’12, Classics
Ever had an awkward moment? Post it here!

IPHONE/IPOD APP
BarFinder
Kevin Murphy ’12, Engineering Sciences (SB); Adam Chriissi ’12, Applied Mathematics; Michael Gedeon ’12, Engineering Sciences (SB)
Find the closest bar to you!

FACEBOOK APP, GAME
Big Two
Stanley Zheng ’12, Applied Mathematics; Devon Long ’12, Computer Science

PROBLEM SET 0: Scratch

Create your own animation, game, or interactive art.

Play Big Two against all your friends on Facebook!

FACEBOOK APP, SMS APP
Birthday Bump
Terry Ding ’11, Applied Mathematics
Never forget a friend’s birthday again!

FACEBOOK APP
Blogglet
Carlos Rodriguez-Russo ’13
Let your online voice be heard—by the people who actually care!

ANDROID APP
Brick Destroyer
Jonathan Mizrahi ’10, Economics
Modeled after Blackberry’s Brick Breaker, it’s the perfect way to waste time during class.

WEBSITE
Bronxville Tutors
Leighton Welch ’13
A website to match students and tutors.

ANDROID APP
Business App
Erfan Soliman ’12, Engineering Sciences (SB)
The Business App provides access to news from around the world, simplifies job searches, and provides access to stock quotes.

WEBSITE
Cabot House Room Search Enhancer
Gordon Mason ’11, Economics
A tool for providing additional criteria for springtime room selection in the form of a searchable database.

**WEBSITE**
**CabShare**
Katie Sierks ’12, Engineering Sciences (SB)
*Share a cab, save money!*

**WEBSITE**
**Card Counter**
Alexander Saal ’13
*A website that will count cards for you.*

**FACEBOOK APP**
**Cartofilos**
James Hawrot ’12, Human Evolutionary Biology
*Find where your Facebook friends are from.*

**JAVA APP**
**Chess50**
Alec Kunkel ’12, Mathematics
*Intuitive multiplayer chess program with customizable aesthetics.*

**WEBSITE**
**Christians on Campus club site**
Titus Jahng ’12, Mechanical Engineering Club info, schedule, and written fellowship by club members.

**WEBSITE**
**Chromosome Browsing**
Isha Jain ’12, Chemical and Physical Biology
*A website that allows the user to browse literature searches via an interactive chromosome map.*

**MASHUP**
**ClassFinder**
Yonatan Kogan ’12, Physics
*Find the most efficient way to go from class to class!*

**WEBSITE**
**College FML Mobile**
Jonah Varon ’13
*The mobile version of College FML, a network of FML websites at colleges nationwide.*

**MASHUP, WEBSITE**
**College Search**
James Johnson ’13
*A website for finding news and useful information about colleges and laying them out on Google Maps.*

**MASHUP, TOOL, WEBSITE**
**CommonPlace**
Jonathan Levine ’12, Linguistics
*Connect with your community.*

**WINDOWS APP**
**Computerized Theory of Mind Task**
Caitlin Carey ’13
*An assessment for use in psychology research.*

**WEBSITE**
**Concentration Finder**
Emily Lambert ’12, Applied Mathematics
*Find your ideal concentration at Harvard!*

**TOOL, WEBSITE**
**Contact Spider: Address Books 2.0**
Edward Kogan ’12, Molecular and Cellular Biology
*Reclaim your address book! Update and combine all of your contacts’ information in one place.*

**GAME**
**Conway’s Game of Life**
Alan Palmer ’11, Applied Mathematics
*Simulates “Conway’s Game of Life” from an initial starting position.*

**TOOL, WEBSITE**
**Cowboy Clint Miller**
Clayton Miller ’10, Psychology
*The homepage for Cowboy Clint Miller.*

**WEBSITE**
**Country Cottage**
William Mulholland ’12, Engineering Sciences
*A website that allows users to rent a holiday cottage.*

**MASHUP, WEBSITE**
**CourseCalendar**
Michael Oberst ’12, Applied Mathematics
*Search for prospective courses and add them to your Google Calendar!*

**MASHUP, WEBSITE**
**Course Mapper**
Curtis Wilcox
*A web site for visualizing course meeting locations and times.*

**WEBSITE**
**Crimson Bazaar**
Ethan Kruse ’12, Astrophysics
*Buy and sell your textbooks, MCAT, LSAT, GRE books, and other items in one location, without spamming email lists!*

**WEBSITE**
**Crimson Cocktails**
Sean Murphy ’12, Applied Mathematics
*Find cocktail recipes with ingredients from the Dhalls!*

**WEBSITE**
**Crimson DG**
Kelly Quinlan ’11, Comparative Study of Religion
*Home of the Zeta Phi chapter of Delta Gamma at Harvard!*  

**WEBSITE**
**CrimsonExchange**
Preya Shah ’13
*A consolidated online marketplace for Harvard students to buy and sell goods such as used textbooks.*

**WEBSITE**
**CrimsonList**
Kane Hsieh ’12, Computer Science; Sasank Konda ’12, Computer Science
*Harvard’s Craigslist.*

**WEBSITE**
**Crimson Photo Board Blog**
Adam Sidman ’10, Engineering Sciences
*A blog for The Harvard Crimson Photo Board to discuss photography.*

**WINDOWS APP**
**Crimson Squash**
Richard Hill ’11, Applied Mathematics
*Record and analyse your squash match in real time!*

**WEBSITE**
**Crimson Venue**
Feifei Yi ’12, Economics
*Find the right venue on campus!*
This is CS 50.

**TOOL**

**Cryptography throughout the Ages**
John Casale '12, Mathematics
A program to encrypt and decrypt messages with various ciphers from the Roman empire to World War II and beyond.

**SMS APP**

**CS50 Text Service**
Owen Curtis ’11, History of Art and Architecture; Daniel Sullivan ’11, Economics; Jasmine Robinson ’11, Linguistics
Check you e-mail via text.

**GAME**

**C Settlers**
Emily Wells ’12, Applied Mathematics
Implementation of Settlers of Catan using ncurses (longest road bonus, trading with other players, and ports not included).

**SMS APP, WEBSITE**

**DailyBasal.com**
John Armstrong
A website for recording daily Basal body temperatures.

**FACEBOOK APP, TOOL, WEBSITE**

**Daily Dose of Harvard**
Juliana Cherston ’13
A Facebook App that provides you with a daily Crimson article customized to your interests.

**WINDOWS APP**

**Database for a Dominican Doctor**
Andrew Lin ’12, Computer Science; Nan Du ’12, Engineering Sciences (SB)
Windows application that will manage patient and appointment information.

**WEBSITE**

**Debase**
Elliot Stein ’13; Jillian Jordan ’13; Anna Roth ’12, Applied Mathematics
A database that stores post-round debate information so that high-school and college policy debate rounds can be more competitive, educational, and fair.

**SMS APP**

**DebtBuddy**
Nihar Shah ’11, Economics
Keep track of casual debts between friends through text messages.

**TOOL, VISUALIZATION, WINDOWS APP**

**Democracy in the World**
Sergius Wat ’11, Government
This project is a data visualization of democracy indicators in various countries around the world (based on the Freedom House rankings from 1972-2009).

**WEBSITE**

**Elephantme- The Anniversary Reminder**
Kristina Barile ’12, Engineering Sciences (SB)
Sends email reminders and tips for an upcoming anniversary.

**WEBSITE**

**E-Moderator**
Alec Barrett ’11, Government
This project is designed to assist moderators at Model United Nations conferences. The website will keep track of which countries are present, who has spoken, and which resolutions are passed in each committee. The project will keep all this information in a safe, easily accessible location from which it can be shared with other conference staff.

**VISUALIZATION, WEBSITE**

**Event Web**
Jennifer Xia ’12, Applied Mathematics
A visualization of related events on campus.

**WEBSITE**

**FCB Mobile**
Andres Uribe ’12, History
A website for FC Barcelona fans with real lives on the side, allowing them to receive live scores and headlines regarding the team via SMS.

**WEBSITE**

**FDO Movies**
Luis Duarte ’13; Keoni Correa ’13
A revamped version of the FDO Movie Club Website.

**FACEBOOK APP**

**Find Your Friends**
Sarah Campbell ’12, Engineering Sciences
A Facebook application for finding the current location of friends.

**VISUALIZATION, WEBSITE**

**Flashcards on Crack: A Better Way to Study**
Rebecca Levitan ’12, Linguistics
A way of creating your study guides and flashcards so you can truly see the connections among all the individual facts.

**FIREFOX ADD-ON**

**Flex Thunderbird Notifier**
Jeffrey Kalmus ’12, Mathematics
An add-on for customizing Thunderbird’s e-mail notifications.
Game
Flight Simulator
Justin Chew ’11, Neurobiology
A basic flight simulator implemented in Java 3D.

Facebook APP
Football Frenzy
Scott Fritz ’12, Computer Science
Stand behind your favorite pro football team on Facebook!

Tool, Website
FOP Gear and Request Database
Louise Hindal ’12, Engineering Sciences (SB)
A website for cataloging and requesting FOP gear.

Facebook APP, Mashup
Friend Map
Tomomichi Amano ’12, Economics
Find out where your friends live on an interactive map.

Java APP
Game of Life
Adina Feier ’12, Mathematics
Java application implementing a classic example of a cellular automaton.

Facebook APP
GeoStats
Samuel Saidel Goley
Plot your friends on a Google map by network, interest, activities, and more!

Website
Ghobi
Gabriel Neustadt ’13; Scott Sansovich ’13; Tyler Faux ’13
A way for friends to instantly and efficiently coordinate activities together.

Website
Give Market
Sam Steyer ’11, Applied Mathematics
Buy and sell charitable outcomes!

Website
Global News
John Yusufu ’12, Engineering Sciences (SB)
News from across the globe, sorted by continent and country.

Website
Global News Now! (GNN)
Jonathan Kola ’12, Engineering Sciences
My website highlights the regions of the globe where the most sourced and talked about news stories are from.

SMS APP
GoCrimson
Kirsten Van Fossen ’12, Environmental Engineering
A text service that provides information about Harvard’s home varsity athletic events.

SMS APP
GoCrimson SMS Updates
Julia Howland ’12, Social Studies
A SMS text service to find out score and game updates for Harvard athletics.

Tool, Website
Good Morning
Jesse Ge ’10, Economics
Useful information to wake up to - in email form!

Google APP, Mashup, Tool
Google Form to Google Calendar Population Tool
Christopher Kleinhen ’10, Psychology
A tool that enables Google Calendar events to be populated from Google Forms.

Website
Got Jazz?
Aleksandra Syrkina ’12, Engineering Sciences
Find and discuss NYC jazz clubs and concerts!

Website
Got Wifi?
Ben Hur Gomez ’11, Economics
Find nearby wifi hotspots!

Mashup, Tool, Website
Graduation Buddy
Elizabeth Cook ’10, Applied Mathematics
A website that uses your Harvard student record to calculate your departmental GPA and that guides you on what to take next to graduate.

Android APP
Guardian
Olga Zinoveva ’12, Molecular and Cellular Biology
Keep safe from crime by knowing where it happens.

Website
H-Chat
Thomas Snell ’13; Robert Nishihara ’13
Anonymous stranger chat for the Harvard community.

Linux APP, Voice APP, Windows APP
HAL Py-thousand
Thomas Rice ’12, Astrophysics
HAL listens to your voice and gets data from the Internet!

Website
HarSKY - Course Calculator
Kevin Lee ’12, Economics; Yunan Jin ’12, Engineering Sciences (SB); Sanjay Misra ’12, Applied Mathematics
A better my.harvard course planner, OUR. harvard course planner.

Website
Harvard Admissions Tour Guides
Taylor Shimberg ’12, Applied Mathematics
A website that organizes the Harvard Admissions Tour Guides Schedule.

Website
Harvard Assassins
Jacqueline Quinn ’12, Engineering Sciences (SB); Nick Stanford ’12, Chemical and Physical Biology
Let us organize your Assassins games for you!

Website
Harvard Book Barter
Daniel Bruder ’12, Engineering Sciences
A website for buying and selling Harvard Textbooks.
map that lets users find any lab in any department of FAS and access its website.

**TOOL, WEBSITE**

**Harvard Lexicon**

Punit Shah ’12, Social Studies
A crowdsourcing website to catalog and share Harvard’s acronyms, jargon, and vernacular (i.e. Harvard-speak).

**MASHUP, WEBSITE**

**Harvard Life**

Sean Singh ’12, Chemistry; Wenchi Zhou ’12, Molecular and Cellular Biology; Adam Krahn ’12, Economics
Everything you need in a Harvard Life!

**WEBSITE**

**HarvardMLIA**

Daniel Farrell ’10, Neurobiology
Share your Ve-Ri-Normal experiences.

**WEBSITE**

**Harvard Open**

Soumya Nettimi ’11, Applied Mathematics
A meeting place for Harvard students to buy and sell used books, furniture, merchandise, etc.

**WEBSITE**

**Harvard Outing Club Gear Database**

Aryeh Gold-Parker ’12, Chemistry and Physics
The project is a database application that will allow the Harvard Outing Club to better keep track of its gear, members, and trips. The application will enable Outing Club leaders to more easily plan trips and rent gear, and it will let members view lists of upcoming trips and available gear. Additionally, it will record a history of gear loans and trips.

**MASHUP, TOOL, WEBSITE**

**Harvard Pathfinder**

Timothy Kim ’13
Find the shortest path between two locations in the Harvard campus.

**MASHUP, WEBSITE**

**Harvard Planner Suite**

Kevin Fogarty ’12, Physics
A tool for more conveniently navigating course selections and Q guide ratings.

**WEBSITE**

**Harvard Private Party Registration Website.**

Mudiurasul Hassan ’12, Applied Mathematics; Leonard Kogos ’12, Engineering Sciences (SB)
A website for registering private parties at Harvard.

**WEBSITE**

**Harvard Sailing Website**

Tedd Himler ’11, Government; Grace Charles ’11, Organismic and Evolutionary Biology
A website created for current, past and prospective members of the Harvard Sailing Community.

**PROBLEM SET 3: The Game of Fifteen**

Implement a party favor.

**WEBSITE**

**Harvard Square Homeless Shelter Administrative Interface**

Suhas Rao ’12, Applied Mathematics
A website for managing administrative tasks at the Harvard Square Homeless Shelter.

**FACEBOOK APP**

**Harvard Square Sweets and Coffee**

Meng Iris Li ’12, Economics; Xiao Cong ’12, Applied Mathematics
Find your sweet treat whenever and wherever!

**VOICE APP**

**Harvard Square Voice: Restaurant Hours**

Yukun Li ’13
A voice application for finding the operating hours of restaurants in Harvard Square.

**MASHUP, WEBSITE**

**Harvard Study Guide Library**

Nicholas Pomata ’13
An interface for creating and viewing study guides for Harvard courses.
WEBSITE

Harvard University Portal
Brian Feldman ’13; Parker Lawrence ’12, Philosophy; Baris Ercal ’10, Molecular and Cellular Biology
Want to know what everyone at Harvard is up to? Find out at the Harvard Portal.

MASHUP WEBSITE

Harvard Wayfinder
Mark Theilmann ’12, Molecular and Cellular Biology
A website to give directions and the shortest route across campus.

TOOL, WEBSITE

HCMC Runs Blog
Cara Aiello ’12, Linguistics
A website and email notification system for organizing runs that Harvard College Marathon Club members post.

WEBSITE

HCSDC
Elizabeth Mak ’12, English
An online archive of past stage design work on campus.

WEBSITE

HiFinance
John Zhou ’10, Applied Mathematics; Xin Pan ’10, Applied Mathematics
HiFinance is your finance portal and trading platform.

Hong Kong’s Soho Guide
Renyi Ang ’10, Engineering Sciences
Essential for a great night out in Hong Kong!

TOOL, WEBSITE

HRKC Asari!
Michael Wang ’12, Engineering Sciences
An easy-to-use user interface to browse through club documents and history.

WEBSITE

HSwap: Making It Easy to Buy and Sell
Evan Greif ’13
A marketplace for Harvard students.

SMS APP

HUDS Menu SMS
Ethan Waxman ’12, History; Brett Silverman ’12, Engineering Sciences (SB)
Allows a user to access the HUDS menu via SMS text messaging.

IPHONE/IPOD APP

HUDS Rate and Review
Christina Zou ’12, Applied Mathematics
Find out what’s on the HUDS menu and share ratings and reviews on menu items on your iPhone.

FIREFOX ADD-ON

huSync
Noah Bruegmann ’10, Chemistry and Physics; Duncan Gilchrist ’10, Applied Mathematics
A Firefox add-on to easily access your course documents.

IPHONE/IPOD APP

iDining
Ben Massenburg ’11, Engineering Sciences; Alexander Soutter ’11, Economics
Browse HUDS menus and keep track of your favorite foods on your iPhone.

IPHONE/IPOD APP

iGetIT Physics: Mechanics
Scott Crouch ’13; Sophie Chang ’13
An iPhone app for high school students designed to guide them through physics.

IPHONE/IPOD APP

iHarvard
Randy Miller ’13
iHarvard is an iPhone application that will offer Harvard students many services including a map, up to date news, and many other Harvard-related features.

MASHUP, WEBSITE

InfeCS50n Tracker
Zachary Frankel ’11, Physics
Find the risk of flu near you.

MASHUP, TOOL, VISUALIZATION, WEBSITE

inQuiry
Abraham Lin ’10, Molecular and Cellular Biology
A search engine (and more!) for Q data and official course information.

TEXT MESSAGE SENDER, WEBSITE

Instant Sports Alerts
Ryan Callahan ’13
Fueling your unquenchable thirst for stats and scores!

MASHUP

Integrating HighRise with Google Spreadsheet.
Martin Ye ’12, Statistics
A script that syncs information from HighRise with Google Spreadsheet

WEBSITE

iPlanner
Robert Longcor ’12, Engineering Sciences
Sort and choose classes based on Q guide data!

WEBSITE

I Saw You - Harvard
Tej Toor ’10, Economics
A website for missed connections on campus.

WEBSITE

iTradeHarvard.com
Chioma Madubata ’11, Molecular and Cellular Biology; Youran (Annie) Ye ’11, History
Trade goods and services with your classmates!

WEBSITE

IvyGetsGreener
Rachel Field ’12, Engineering Sciences (SB); Jen Gong ’11, Applied Mathematics
Calculate your contribution to Harvard’s environmental friendliness!

FACEBOOK APP, WEBSITE

Ivy Rowing Central
William Newell ’11, Classics; Olivia Coffey ’11, Economics
A conglomeration of Ivy League rowing information.

WEBSITE

johnslist
Andrew Izaguirre ’10, Applied Mathematics
A website that allows users to advertise

PROBLEM SET 4: Sudoku

数字は独身に限る。
books, furniture and other items for sale within the Harvard community.

FACEBOOK APP
John Tsai
John Tsai ’13
How long do you really spend on Facebook?

MASHUP, SMS APP, TOOL, VISUALIZATION, WEBSITE
KerbAlert
Kate Broadbent, G-1
Looking for a sweet FREE couch? lamp? tv? Signup to receive "KerbAlerts" sent to you via text or email when new Craigslist FREE stuff listings match your interests. Also, you can browse a map of current listings matching your interests at kerbalert.com. Happy Kerbing!

IPHONE/IPOD APP
Key Note
Li Zhou ’12, Economics
Never forget your keys again!

WEBSITE
LanguagePals
Asher Lipson ’13
LanguagePals is a website that connects users based on primary languages and preferences with email penpals for language-learning exchange.

TOOL, WEBSITE
Legal Organizer
Sam Roosz ’10, Molecular and Cellular Biology
A web-based application for improving case records and workflows at a nonprofit law firm.

MASHUP, WEBSITE
Let’s Hang Out
Alexander Ratner ’11, Physics
A short-range meet up facilitator.

SMS APP
LibraryBoy
Jeoffrey Solnet ’12, Government
Search the Harvard University Library on the go via SMS!

WINDOWS APP
Live Sequence
Kevin Lee ’12, Mathematics
Enables people to use a touchscreen interface to Df.

GAME, TOOL, VISUALIZATION, WEBSITE
Lost Science
Morgan Pope ’11, Physics
Answers for life’s simple questions.

GAME
Man Versus Machine: Tic Tac Toe
Jack Morrissey ’12, Chemistry and Physics
Game of Tic Tac Toe against a computer capable of ‘learning’.

MASHUP, VISUALIZATION, WEBSITE
Map of Harvard’s Energy and Resource Usage
Daniel Bear ’10, Molecular and Cellular Biology; Sam Bjork ’10, Chemistry
Our project dynamically displays the energy and resource usage of every building on Harvard’s campus using the HarvardMaps interface.

MASHUP, TOOL, WEBSITE
Map Your Run!
Caroline Wu ’11, Economics
A website for mapping your runs.

WEBSITE
March Madness
Julia Hansbrough ’13
Fill out your NCAA tournament bracket and enter a pool to win!

WEBSITE
Mass Email Personalization
Brian Riemer ’12, Economics
Personalize your mass emails!

TOOL, WINDOWS APP
Mass Spectrometry Data Analyzer
Joshua Green ’10, Chemistry
An all-in-one program for analyzing mass spectrometric data in coordination with the XCMS software package.

WEBSITE
Medcherche
Yunsoo Kim ’11, Chemical and Physical Biology
A website for info on medical issues and treatments.

ANDROID APP
Medicine Cabinet
Shiyu Wei ’10, Mathematics
An application for smart phones to alert you when to take your medicine.

MASHUP
Menu Mashup
Helen Yu ’12, Economics
Find a restaurant anywhere in the USA!

WEBSITE
Marching Band
Bryan Chuan ’11, Music; Bryan Chuan ’11, Music
A website that reduces e-mail spam by having a centralized display of musical events.

WEBSITE
Music Engine
Snoweria Zhang ’12, Engineering Sciences
Find the song that’s been in your head without using the lyrics.

WEBSITE
Music Group Home Page
Michael Robert Caldwell ’13
Website for a college music group.
Music Harmonization Generator
Russell Huang ’12, Physics
Input a MIDI file with a one-track melody, get back a MIDI file with an attempted chordal harmonization. Astound your friends and bedevil your enemies... musically.

My College App
Lauren Carvalho ’11, Neurobiology
A Facebook application that meshes social networking with the college application process!

My Favorites
Katherine Obst ’12, Engineering Sciences
Easy access to your favorite contacts.

myGroup: www.my-harvard.com
Abdelnasser Rashid ’12; Muhammad Yousu’f ’12, Engineering Sciences
The best online tool for student groups!

MyMeds
Margarita Krivitski ’11, Applied Mathematics
Get text-message reminders about your medications and give doctors & pharmacists access to a complete medication history, including OTC and prescription drugs as well as herbal remedies.

MyStat
Matthew Mulroy ’12, Environmental Science and Public Policy
Make better-informed decisions by tracking your day-to-day progress with MyStat!

Nom Nom Now: Crimson Edition
Diana Cai ’13
Find out the hours of a dining hall and and the menu with a simple phone call!

Number to Words!
Yi Han ’12, Engineering Sciences (SB)
Does your number make cool words? or a sentence?

PBHA General Application
Shu Yang ’10, Molecular and Cellular Biology
A general application for potential volunteers to send relevant information to all public service programs of interest.

Peer Advising Fellows Website
Hilary Roberts ’12, Engineering Sciences
An organizational tool for Peer Advising Fellows.

Personal Assistant
Douglas Reed ’12, Chemistry and Physics; Gilberto Lopez ’12, Astrophysics
Keep track of your daily appointments with just a call!

Phorum
John Mussman ’12, Physics
A forum for the future of philosophy.

PickyEater
Miranda Lippold-Johnson ’11, Linguistics
PickyEater is a public service for all Harvard undergraduates! It is a web-based application that allows you to register to receive text-message alerts on days when your favorite foods are in the dining hall. Love falafel? Never miss it again!

Plan-of-Study Generator
Duncan Watts ’12, Physics
A website that takes courses you want to take as input and returns a plan of study, specifically cores and Gen Ed courses.

Power to the Manager: The Ultimate Fantasy Soccer Simulation
Samir Patel ’12, Engineering Sciences (SB)
A fantasy soccer simulation that empowers individuals to choose their own settings, mode of play, and league of interest.

Procrastination Defeater 1.0
Lai Man Raymond Ko, G-1, Evolutionary Biology
An interactive planner which helps users to stop procrastination.
to organize research articles, easily relocate these articles, and take downloadable notes.

**WEBSITE**
**ResearchRover**
Allison Rosenberg ’12, Neurobiology
Keep up to date on new research published in your area of interest.

**WEBSITE**
**Resource Efficiency Problem Reports**
Hal Nichols ’10, Government
A website that allows members of the Harvard Community to report "efficiency violations" when they observe wasted energy or resources around campus to the Resource Efficiency Program.

**MAC OS APP**
**Score Tracker**
Malgorzata Dymerska ’12, Engineering Sciences; Vijayalakshmi Parthasarathy Parthasarathy ’12, Engineering Sciences (SB)
Get the most recent score of your favorite major league sports team!

**PROBLEM SET 6: Mispellings**

Implement a spell-checker that’s faster than your classmates'.

**WEBSITE**
**Search, Re**
Rashid Yasin ’12, Engineering Sciences
A research organization tool.

**GAME**
**Segfault**
Kathryn Bennett ’13
A CS50 quiz review game.

**MASHUP, WEBSITE**
**Sergiy’s home page**
Sergiy Nesterko, G-3
A cute personal website.

**SMS APP**
**ShoutOut**
Sam Ten Cate ’12, Psychology
ShoutOut allows friends, roommates, clubs, societies and groups to create SMS-based-email-lists. Think Gossip Girl.
TOOL, VOICE APP
Sing-to-Score
Laura Dale ’10, Physics
Record a melody and convert it to a musical score.

TOOL, WEBSITE
Slidetography
Michael Cioffi ’11, Engineering Sciences (SB)
A Jalbum (app) skin that allows you to upload pictures and spits out webfiles that can be published/posted online as an interactive album.

PROBLEM SET 7: CS50 Finance

Design a database. Build a dynamic website.

WEBSITE
South Asian Men’s Collective Website
Ravi Mulani ’12, Applied Mathematics
A website for the South Asian Men Collective with a new alumni database!

WEBSITE
Species Counterpoint
Anne Polyakov ’12, Mathematics and Music
A website that composes eight to sixteen measure musical phrases using the rules of species counterpoint.

ANDROID APP, TOOL
SpeedDial
Melody Hu ’12, Neurobiology
Implements a speed dial program for the Android Mobile OS.

TOOL, WEBSITE
Spell-Rite
Steve Tricanowicz ’13
A website for checking ur badd speling.

A website for checking ur badd speling.

WEBSITE
Sports at Harvard
Lauren Leon ’12, Neurobiology
Find out what sporting events are happening at Harvard!

WEBSITE
Student Budget Tool
Ronald Serko ’12, Economics
Use this budget/financial tool to keep track of your resources and chart your spending patterns.

WEBSITE
Student Organization Administration Solutions
Ifedapo Omiwole ’12, Computer Science
Manage and keep track of the day-to-day running of your student organization.

WEBSITE
Studio Stern
Sara Stern ’12, Visual and Environmental Studies
A portfolio website with an interactive art component.

WEBSITE
Summer Experience Tracker
Alexander Hristov ’11, Physics
Get information about summer opportunities from people who have been there before!

WEBSITE
Surfing the Wave
Juan Hernandez-Campos ’12, Engineering Sciences (SB)
A website to reconnect with high school classmates to plan events.

MASHUP, WEBSITE
Symphony Orchestras of the USA
Saki Takahashi ’11, Applied Mathematics
Search for orchestras near you!

ANDROID APP
Tap-It
Calvin McEachron ’12, Computer Science
Tap-It for Android.

WEBSITE
Texas Hold’em Odds Calculator
Meng Cai ’11, Applied Mathematics
Calculate odds of making a certain type of hand in Texas Hold’em.

WEBSITE
Texts from the Yard (TFTY)
Joseph Gaspard ’12, Government
Harvard College’s very own TextsFromLastNight: where those texts we all regret sending will be (anonymously) posted for the world to see.

WEBSITE
The College Process
Malcolm-Wiley Floyd ’12, Economics; Jay Shah ’12, Economics
The College Process strives to guide high school students through the long, often stressful process of applying to and finding the college that is right them. To achieve this goal, we hope to provide students with a series of products that will not only educate them about the thousands of universities available to them, but also serve as a place for students to connect with their peers so that they might trade tips, network, and express themselves.

WEBSITE
The CS50 Personal Brander
Brian Shen ’11, Visual and Environmental Studies
The CS50 Personal Brander will take a few of your favorite things to visually communicate you.

WEBSITE
The Digital Bartender
Charles Tremblay ’10, Chemistry and Physics
Find your new favorite drink.

GAME
The Game Is Afoot
Chelsea Link ’12, Human Evolutionary Biology
A trivia game to test your knowledge of Shakespeare’s plays.

WEBSITE, GAME
The Game of (Real) Life
Tom Yang ’10, Social Studies
A task manager that keeps track of your daily tasks and provides feedback and reminders.

WEBSITE
The Harvard Music Database
Nivedita Sarnath ’12, Computer Science
A searchable database of all of Harvard’s music groups.

WEBSITE
The Harvard Socialite
Jane Ng ’11, Applied Mathematics
Helps Harvard students keep continuous
track of how campus parties are and other students’ comments on them.

FACEBOOK APP
The Nest
Michael Zhang ’12, Economics; Jonathan Jain ’12, Psychology
Your Facebook network—with you at the center.

WEBSITE
The Photo Wire
Diana Marin ’12, Romance Languages and Literatures
A website of the photo news of the day.

WINDOWS APP
The Research Assistant
Ammanuel Gebeyehu ’12, History; Xuezhi Dong ’12, Molecular and Cellular Biology
A program that helps students find keywords in research papers.

WEBSITE
The Text Store
Anna Patel ’13
A website for finding or selling used textbooks.

GAME, WEBSITE
Tic Tac Toe
Alexandra Libby ’12, Neurobiology
Tic Tac Toe, as you know it, but on a website

FACEBOOK APP
Time’s Up!
Sloan Zimmerman ’13
Time’s Up! is an application that allows you to set an alarm that will send you a reminder notification and/or e-mail when the alarm time expires.

VISUALIZATION, WEBSITE
To-Do Tree
Simone Zhang ’12, Sociology
Visualize that to-do list!

MASHUP
Trading Strategy Analyst
Ashley Turner ’13
I am going to create a program that will analyze previous trades based upon a particular trading strategy in order to return the predicted future gains and losses for that strategy.

MASHUP, WEBSITE, IPHONE/IPOD APP
TravelBuddy
Amanda Kersen ’12, Applied Mathematics; Neil Howard ’12, Mathematics; Matthew Patton ’12, Chemistry
An iPhone app and website that helps you in your travels by recording where you have been on a map and reminding you to take pictures.

VISUALIZATION
Trends in Science: an Interactive Visualization
Koning Shen ’10, Chemical and Physical Biology
An interactive timeline of major discoveries in biology, chemistry, and physics.

WEBSITE
Tuberculosis Tracker
Michael Silvestri ’10, Economics
A website for reporting and tracking the treatment outcomes of patients with multidrug-resistant tuberculosis.

SURFACE APP
Twitter on the Surface
Michael Chen ’13
For a day when surface computing platforms are in every home.

GAME, WEBSITE
TwixT!
Richard Ho ’10, Computer Science
An implementation of the board game TwixT.

WEBSITE
Umami Magazine 2.0
Jean Shiao ’13
Re-implementation of an originally-html-based website in Drupal so that website can be more easily updated and maintained.

WEBSITE
US Undergrad
Aaron Deardon ’11, Physics
A website to help British students to apply to study in the US.

WEBSITE
Veritas Experience
Daniel Metzel ’11, Chemical and Physical Biology
A website for a student organization, Veritas Experience, devoted to helping students arrange term-time internships.

GOOGLE WAVE GADGET
Wave Games
Kyle Crichton ’12, Engineering Sciences (SB)
Simple game gadget designed for interactive use by multiple people on Google Wave.

ANDROID APP
Waytracker
Herman Gudjonson ’12, Physics
Keep track of where you go and how you get there.

WEBSITE
Website for the Athena Program
Keri Hartman ’12, Social Studies
Learn about Harvard’s only feminist mentoring program for high school girls.

WEBSITE
What’s the Spread?
Alex Melas-Kyriazi ’13; Kevin Pohler ’13
Have fun betting on sports games and competing with your friends with fake money!

WEBSITE
WHRB News
Natalie Panno ’13, History and Literature
A website for the WHRB News department to showcase projects, news, and other content!

MASHUP, TOOL, WEBSITE
When is it open?
Spencer Chan ’12, Applied Mathematics
Lets you search local businesses and tells you what their hours of operation are.

WEBSITE
Who’s on First, What’s on Second, I Don’t Know... The Score
Adam Purvis ’12, Applied Mathematics
A website that keeps you on top of baseball statistics, pitch by pitch.

MASHUP, TOOL, WEBSITE
WHRB Playlist Analysis Tool
Carl Pillot ’12, Music
A tool for finding out data about what songs have been played on WHRB.

MASHUP, WEBSITE
Winthrop Room Reservation
Yizi Yang ’12, Economics
Reserve Winthrop common spaces here!

WEBSITE
Wish List
Kerry Yang ’11, Economics
Shopping for those too busy to shop.
PROBLEM SET 8: Mashup

Google Maps meets Google News.
And Ajax.

MASHUP, WEBSITE

Women’s Ultimate Website
Laura Freeman ’12, Psychology
Improving the Harvard women’s ultimate frisbee webpage and adding several features, including a dynamic team contact list and practice schedule.

WEBSITE

Won’t Forget
Glyvolner Gabriel ’12, Engineering Sciences
You forgot your friend’s address again? Well never again with this website which stores all of your contacts for you.

MASHUP

World Travel Blog
Felicia Sun ’13
A blog to track my trips around the world.

ANDROID APP

Wormhole
Theresa Silver
An interactive music-generator.

WEBSITE

WriteBite
Ahmed Belal ’12, Neurobiology
A fun website for posting and voting on rants and personal stories.

WEBSITE

www.harvardcraigslist.com
John McVey ’11, Economics
A website for buying college items from other students.

WEBSITE

www.indiaapply.com
Joseph Thumpasery ’10, Applied Mathematics
Admissions advice for Indians applying to graduate school in the US.

GAME, XO LAPTOP MATH ACTIVITY

XO Laptop Math Activity
Ellen Farber ’13
A fun and engaging math activity for XO Laptops.

WEBSITE

YouTube DJ
Elisa Orr ’10, Psychology; Joseph Shivers ’10, Chemical and Physical Biology
An easier way to play with video playlists.

FACEBOOK APP, TOOL, WEBSITE

Youse! Personalizing News
Shiv Gaglani ’10, Engineering Sciences
A web-based tool that sends you articles related to your friends and interests.
the staff

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VMware
http://www.vmware.com/

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CS 1: Great Ideas in Computer Science
Henry H. Leitner (TuTh 10–11:30)
An introduction to the most important discoveries and intellectual paradigms in computer science, designed for students with little or no previous background.

CS 51: Introduction to Computer Science II
John G. Morrisett (TuTh 1–2:30)
Abstraction and design in computation.

CS 124: Data Structures and Algorithms
Michael D. Mitzenmacher (TuTh 11:30–1)
Design and analysis of efficient algorithms and data structures.

CS 171: Visualization
Hanspeter Pfister (MW 1–2:30)
Introduction to key design principles and techniques for visualizing data.

CS 179: Design of Usable Interactive Systems
Krzysztof Z. Gajos (MW 2:30–4)
Usability and design as keys to successful technology.

FALL 2010

CS 50: Introduction to Computer Science I
David J. Malan (MW 1–2:30)
Introduction to the intellectual enterprises of computer sciences and the art of programming.

CS 61: Systems Programming & Machine Organization
Matthew D. Welsh (TuTh 2:30–4)
Fundamentals of computer systems programming, machine organization, and performance tuning.

CS 121: Introduction to Formal Systems & Computation
Harry R. Lewis (TuTh 10–11:30)
General introduction to formal systems and the theory of computation, teaching how to reason precisely about computation and prove mathematical theorems about its capabilities and limitations.

SPRING 2011

CS 105: Privacy and Technology
Michael D. Smith and James H. Waldo (TuTh 1–2:30)
What is privacy, and how is it affected by recent developments in computer technology?
Networked.

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