

CS10 The Beauty and Joy of Computing

Lecture #26 Summary & Farewell

2011-04-27

UC Berkeley EEC: Lecturer SOE Dan Garcia

FUTURE OF VIDEO GAMES?

Analysts close to both Microsoft and Sony are predicting no new home console until 2014. "Will anyone care? How do you make a \$60 game look like a good value when everyone is used to buying \$1 games on their phones and tablets?"



www.itworld.com/nersonal-tech/158019/video-game-consoles-1-door-closes-2-more-might-onen-sometime-201

With \$1 casual games abounding, how has your likelihood to buy \$60 video games changed?

- a) Way less likely
- b) Less likely
- c) Neutral
- d) More likely
- e) Way more likely



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Garda, Spring 2011

Upcoming Calendar

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Sun	Mon	Tue	Wed	Thu	Fri	Sat
4/24	4/25	4/26	4/27	4/28	4/29	4/30
			Lec: Farewell + Surveys (Lab: Feedback + Online Final)		Discussion (Final Thoughts)	
5/1	5/2	5/3	5/4	5/5	5/6	5/7
RRF	Ł W	7e	ek		Comments due @ 10:59am Project due @ 10:59am Final Project Demos 306 Soda Hall 11am-2pm	
5/8 Review Session Wozniak Lounge (430-438 Soda)	5/9	5/10	5/11 Paper Final Exam 277 Cory Hall			
3-6pm				a	lsWee	k

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Administrivia: Become active! Online Exam details

- No exam handed out unless you've filled in both HKN + AP survey
- No "study sheets" needed / allowed since you have access to BYOB
- Final Exam details
 - Only bring pen{,cil}s, three 8.5"x11" handwritten sheets (writing on both sides).
 - Leave backpacks, books, calculators, cells & pagers home!
 - Everyone must take ALL of the final!
- If you did well in CS10 and want to be on staff?
 - Usual path: Lab Assistant \Rightarrow Reader \Rightarrow TA
 - LA: sign up w/Jenny Jones in 395 Soda before 1st week of semester
 - Reader/TA forms: www.cs/~juliea/
 - $\,^\circ\,$ I $\underline{\text{strongly}}$ encourage anyone who gets an A- or above in the class to follow this path. . .





Clickers were worth the time spent

- a) Strongly Agree
- b) Moderately agree
- c) Neutral
- d) Moderately disagree
- e) Strongly disagree



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Exciting Future Implications

- Need to revisit chronic unsolved problem
 - Parallel programming!!
- Implications for applications:
 - Computing power available >>> (choose your favorite supercomputer from a decade ago) on an economical die inside your watch, cell phone or PDA
 - On your body health monitoring
 - Google + library of congress on your PDA
- As devices continue to shrink...
 - The need for great HCl (human-computer interfaces) is as critical as ever!

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Taking advantage of Cal Opportunities

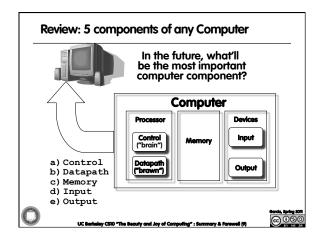
"The Godfather answers all of life's questions" – Heard in "You've got Mail"

- Why were we the #2 Univ in the WORLD?
 - Research, research!
 - Whether you want to go to grad school or industry, you need someone to vouch for you!
 - ...as is the case with the Mob
- Techniques
 - Find out what you like, do lots of web research (read published papers), hit OH of Prof, show enthusiasm & initiative
- http://research.berkeley.edu/

Opportunities Fall 2011

- CS61A (1st course in CS major)
 - Structure and Interpretation of Computer Programs
- CS9 series (learn a second language) I would recommend Python next, CS9
- GamesCrafters (Game Theory R & D)
 - Develop SW, analysis on 2-person games of no chance. (e.g., go, chess, connect-4, nim, etc.) Req: Game Theory / SW Interest
- MS-DOS X (Mac Student Developers)
 - Learn to program Macintoshes.
 - Req: Interest. Owning a mac helps, not required.
 - Taught as a DeCal by MS-DOS X veterans
- **UCBUGG** (Recreational Graphics)
 - Develop computer-generated images, animations.
 - Req: 3D interest
 - Taught as a DeCal by UCBUGG veterans





Peer Instruction Opinion

• "Forget cloning. Forget TVs on your wrist watch. The biggest invention of the next 100 years



will be the ability to directly connect your brain to a machine, aka wet computing." – Dan Garcia

- A macaque monkey at Duke University can already control a robotic arm with thought.
- DARPA interested for mind-control robots & flying
- Virtual Reality achieved with proper I/O interfacing...



Jose Carmena, UCB EECS Prof Research: Brain-Machine Interface ww.eecs.berkeley.edu/~carmena/



Penultimate slide: Thanks to the staff!

- TAs
 - Luke Segars

 - Glenn Sugden
 - Navin Eluthesen
- Readers
 - Courtney Wang
 - Pierce Vollucci

- Lab Assistants
 - Victor Muratalla
 - Pierce Vollucci
 - Aatash Parikh
 - Jessica Hudiono
 - Sameer Makhani Shreva Lakhan-Pal
 - Guillaume Bellagarda
 - Victor Lymar
 - Max Dougherty Kelsey Theriault
 - Yaniv Assaf
 - Katrina Chang
 - Kendall Aabulos
- Ivan Rodriguez



The Future for Future Cal Alumni

- What's The Future?
- New Millennium
 - Ubiquitous & Quantum Computing, Nanotechnology, 10 M "volunteer" CPUs, the Parallel revolution...
 - Rapid Changes in Technology
 - World's _ Best Education
 - Never Give Up!

"The best way to predict the future is to invent it" – Alan Kay

The Future is up to you!

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