The Beauty and Joy of Computing

Lecture #3: Functions

Instructor: Sean Morris



DATA YOU CAN BELIEVE IN?

The role of data mining in the last presidential election. A mind-blowing piece on how the Obama campaign used various sources of data to target voters at an intensity unheard of before. Privacy ramifications? 8 #cs10news



@090

http://www.nytimes.com/2013/06/23/magazine/theobama-campaigns-digital-masterminds-cashin.html?pagewanted=all

BJC in one slide

- Big Ideas of Programming
 Big Ideas of Computing

 - Algorithms (2)
 - Recursion (2)
 - Functions-as-data, λ(2)

 - Programming Paradigms
 - Concurrency
 - Distributed Computing
- Beauty and Joy
 - "CS Unplugged" activities
 - Lab work in pairs
 - Two projects in pairs · Of your own choice!!
- One blog
- - Of students' own choice!!
 Of students' own choice!!
 UC Berkeley "The Beauty and Joy of Computing": Functions (2)

- HowStuffWorks
 - 3D Graphics Video Games
 - · Computational Game Theory
- Research Summaries
 - AI
- HCI
- Apps that Changed the World
- Social Implications of Computing
- Saving the World with
- Computing
- How Twitter Works
- Cloud Computing
- Future of Computing































