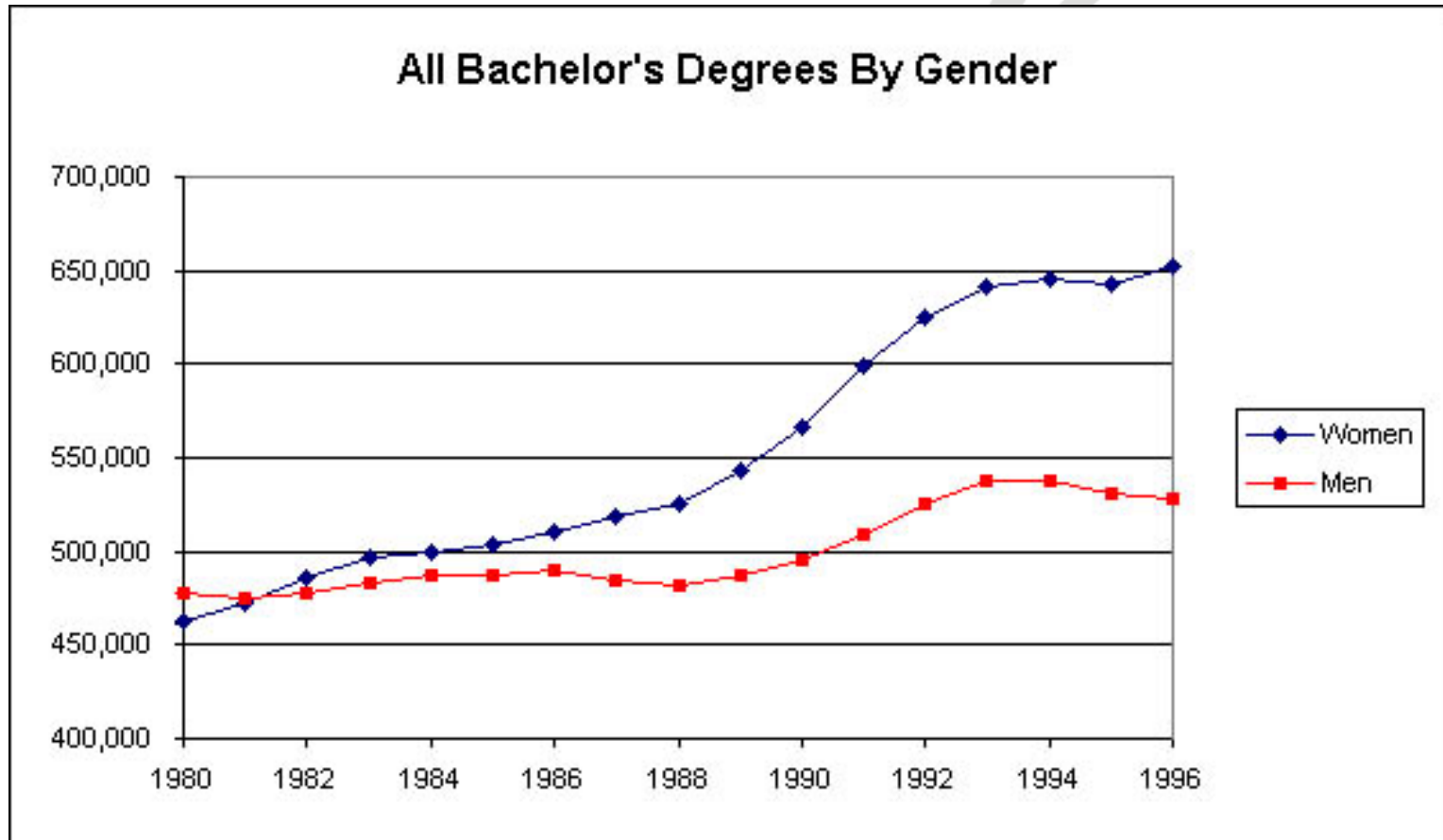




Computer Science and Games: *Just For Girls!*

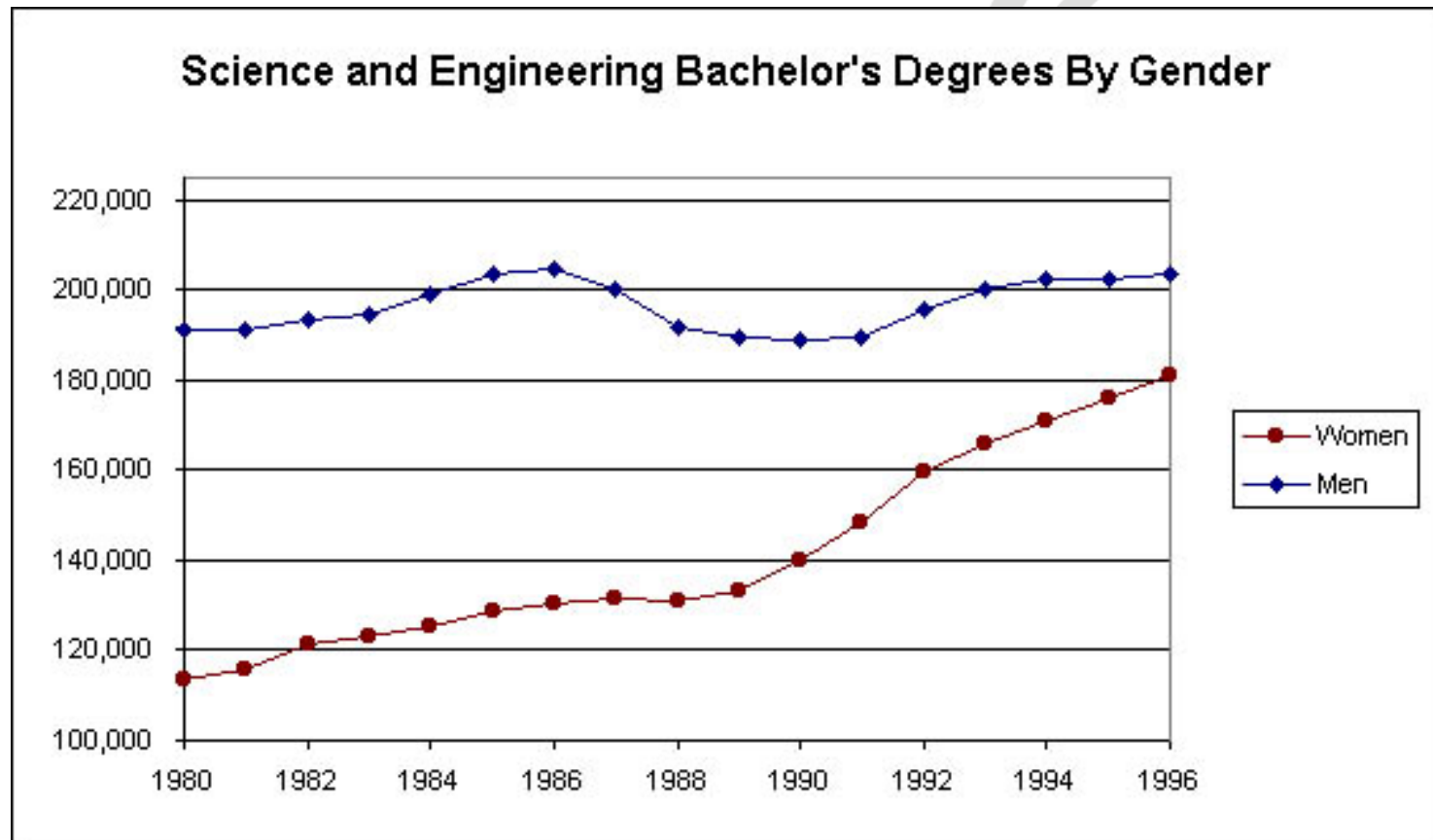
What About The Part
About Being For Girls?

The Cold, Hard Data



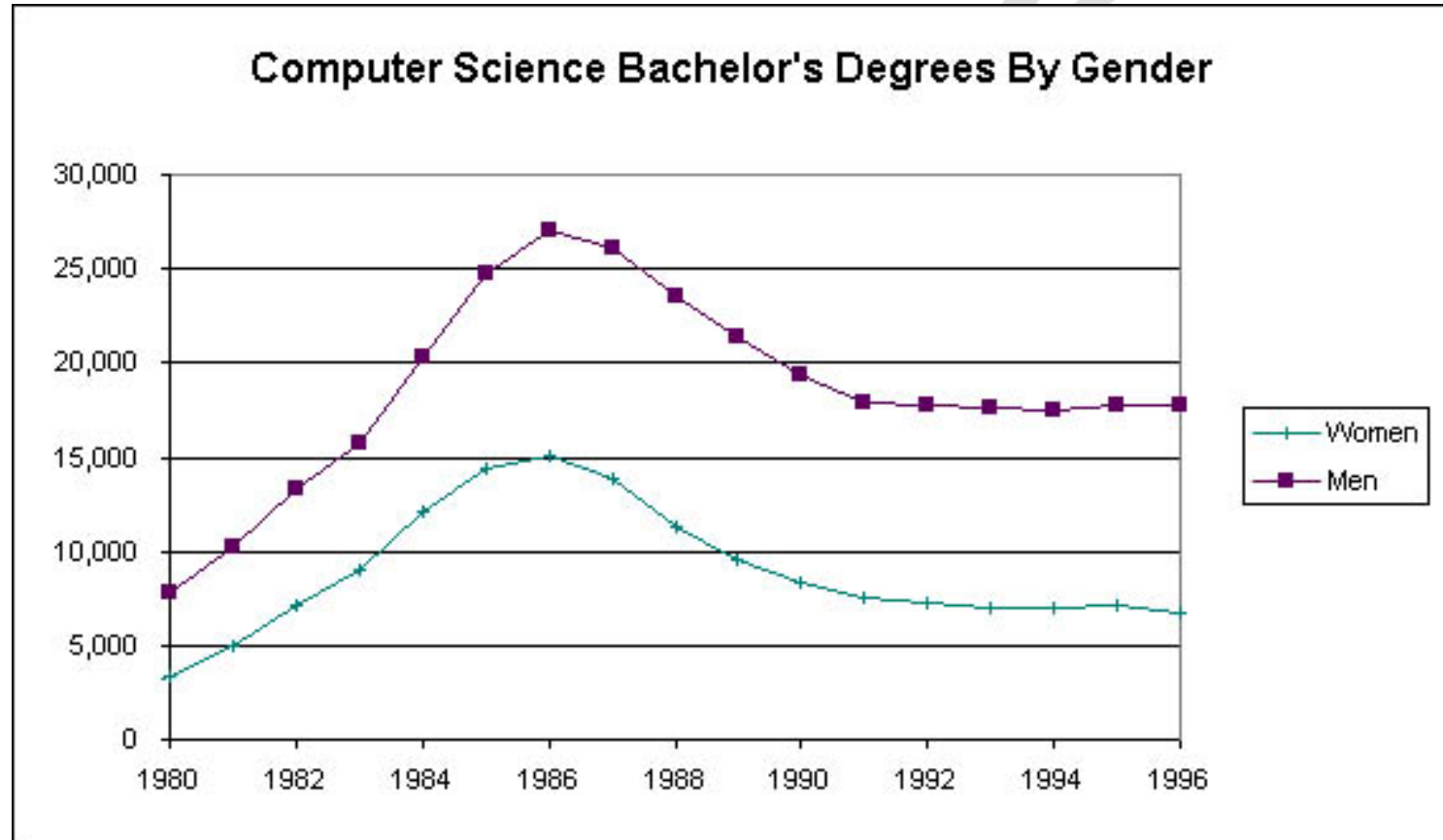
<http://www.cs.washington.edu/homes/letchner/cs201/statistics.html>

The Cold, Hard Data



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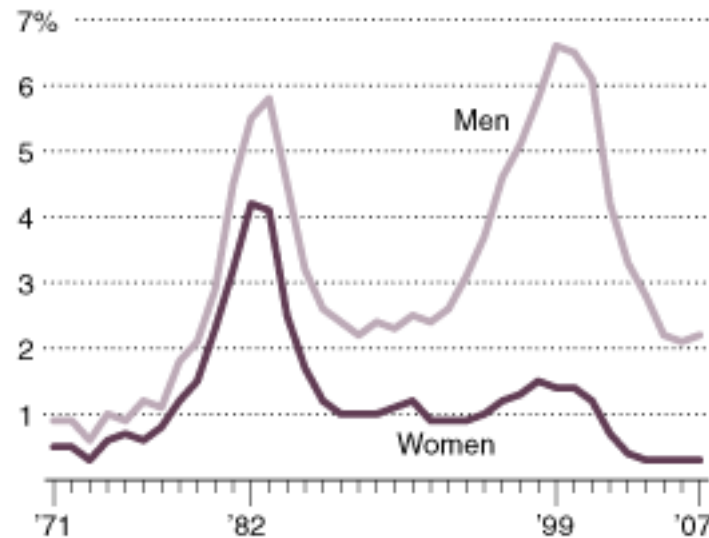
The Cold, Hard Data

The New York Times

November 15, 2008

Widening Gap

The percentage of female college freshmen who list computer science as a probable major is 0.3 percent, down from 4.2 percent in 1982.



Source: U.C.L.A. Higher Education Research Institute

THE NEW YORK TIMES

<http://www.nytimes.com/2008/11/16/business/16digi.html?em>

The Cold, Hard Data

57 Percent of professional occupations in the 2014 U.S. workforce held by women

26 Percent of professional computing occupations in the 2014 U.S. workforce held by women

6 Percent of corporate Chief Information Officer (CIO) positions held by women in 2014

1.2 million

Number of U.S. computing-related job openings expected by 2022

39 Percent of these jobs that could be filled by U.S. computing bachelor's degree recipients by 2022

56 Percent of Advanced Placement (AP) test-takers in 2014 who were female

47 Percent of AP Calculus test-takers in 2014 who were female

20 Percent of AP Computer Science test-takers in 2014 who were female

The Cold, Hard Data

49 Percent of 2014 Intel Science and Engineering Fair (ISEF) finalists in Biochemistry who were female

32 Percent of 2014 ISEF finalists in Mathematics who were female

24 Percent of 2014 ISEF finalists in Computer Science who were female

57 Percent of 2013 bachelor's degree recipients who were women

18 Percent of 2013 Computer and Information Sciences bachelor's degree recipients who were women

14 Percent of 2013 Computer Science bachelor's degree recipients at major research universities who were women

37 Percent of 1985 Computer Science bachelor's degree recipients who were women

7 Percent decline in the number of first-year undergraduate women interested in majoring in Computer Science between 2000 and 2014

26 Percent of computing workforce who were women in 2014

3 Percent of computing workforce who were African-American women in 2014

5 Percent of computing workforce who were Asian women in 2014

1 Percent of computing workforce who were Hispanic women in 2014

<https://www.ncwit.org/resources/numbers>

Brainstorming Time

Get into groups of about two or three and brainstorm:

- **Why don't girls go into computer science?**
- **Why is this a bad thing?**
 - **What kinds of things would make you interested in taking computer science in high school and university?**

Why Should We Care?

1. Computer science is actually a really **rewarding career** for women
2. Women bring a **different perspective** to the field
3. The video game **market is largely untapped** for female gamers

Girls in a Tech World

The Endless Possibilities of Computer Science

<http://www.youtube.com/watch?v=DYBPotROKC8>

Here at Carleton...

CU-WISE is a group of undergraduate and graduate students who believe that women should be able to seek higher education and achieve success in science and engineering without barriers, perceived or otherwise.



<http://www.carleton.ca/wise>

Female Gamers

Number of gamers that are female: **38%**

How much of the game playing population are women 18 or older: **30%**

How much of the game playing population are boys 17 or younger: **23%**

(http://www.theesa.com/facts/gamer_data.php)

So why are so many video games made for *young men*?

Female Gamers



<http://www.abc.net.au/tv/goodgame/stories/s2115553.htm>

Credits

Notes by your instructor Gail Carmichael:

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<http://gailcarmichael.com/>