
Welcome to the Google Education Summit

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The Most Famous Chart in CS Education

Source: *Higher Education Research Institute*, UCLA

Publicized by David Patterson in CACM, Sept. 2005

By 1999, everyone and their dog wanted to major in CS

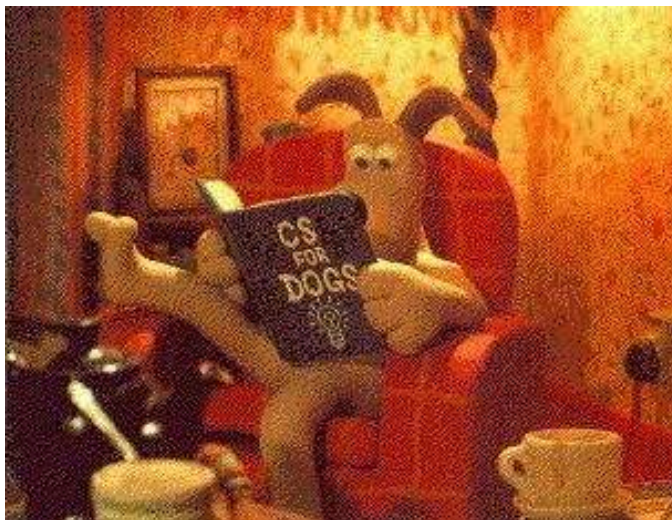
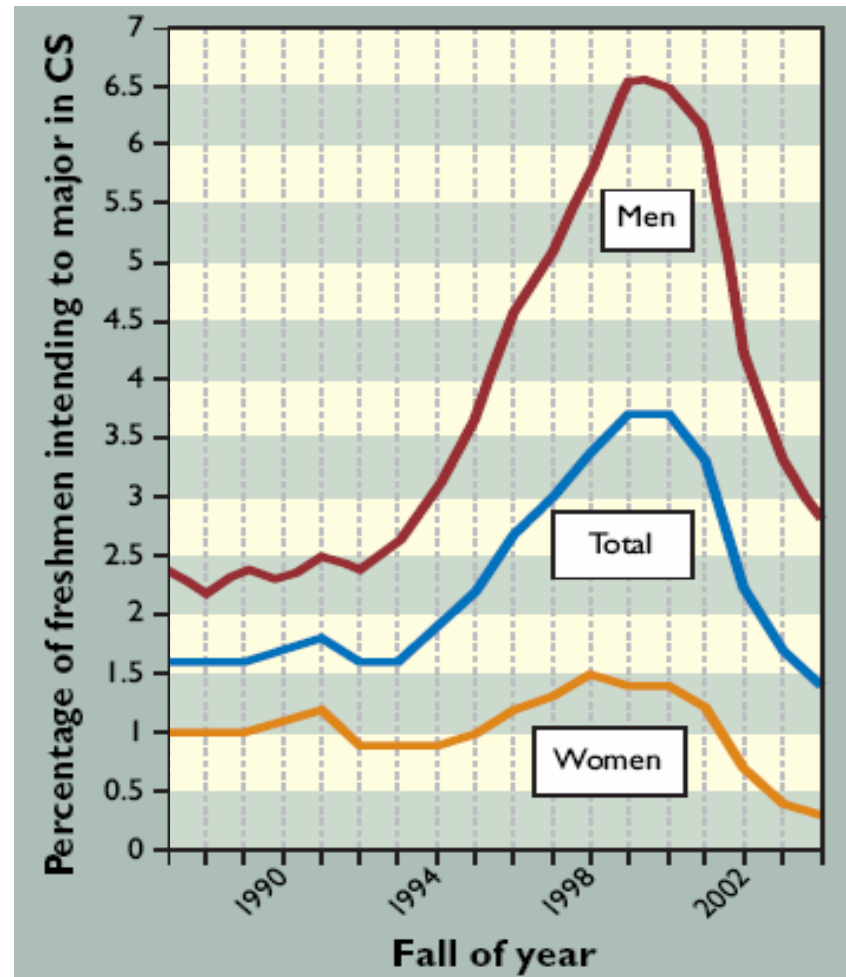
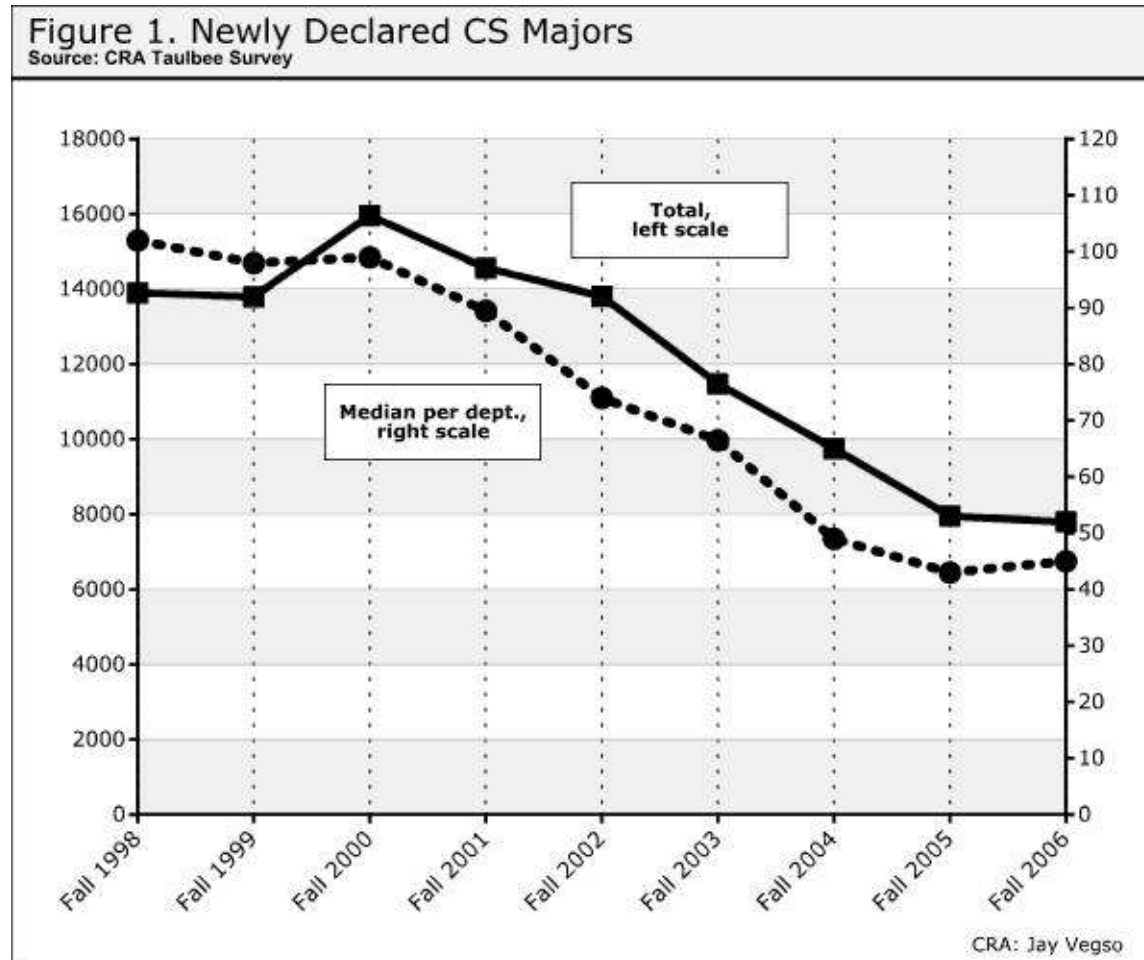


Image: Wallace and Gromit and not subject to the Creative Commons license applicable to the rest of this work.

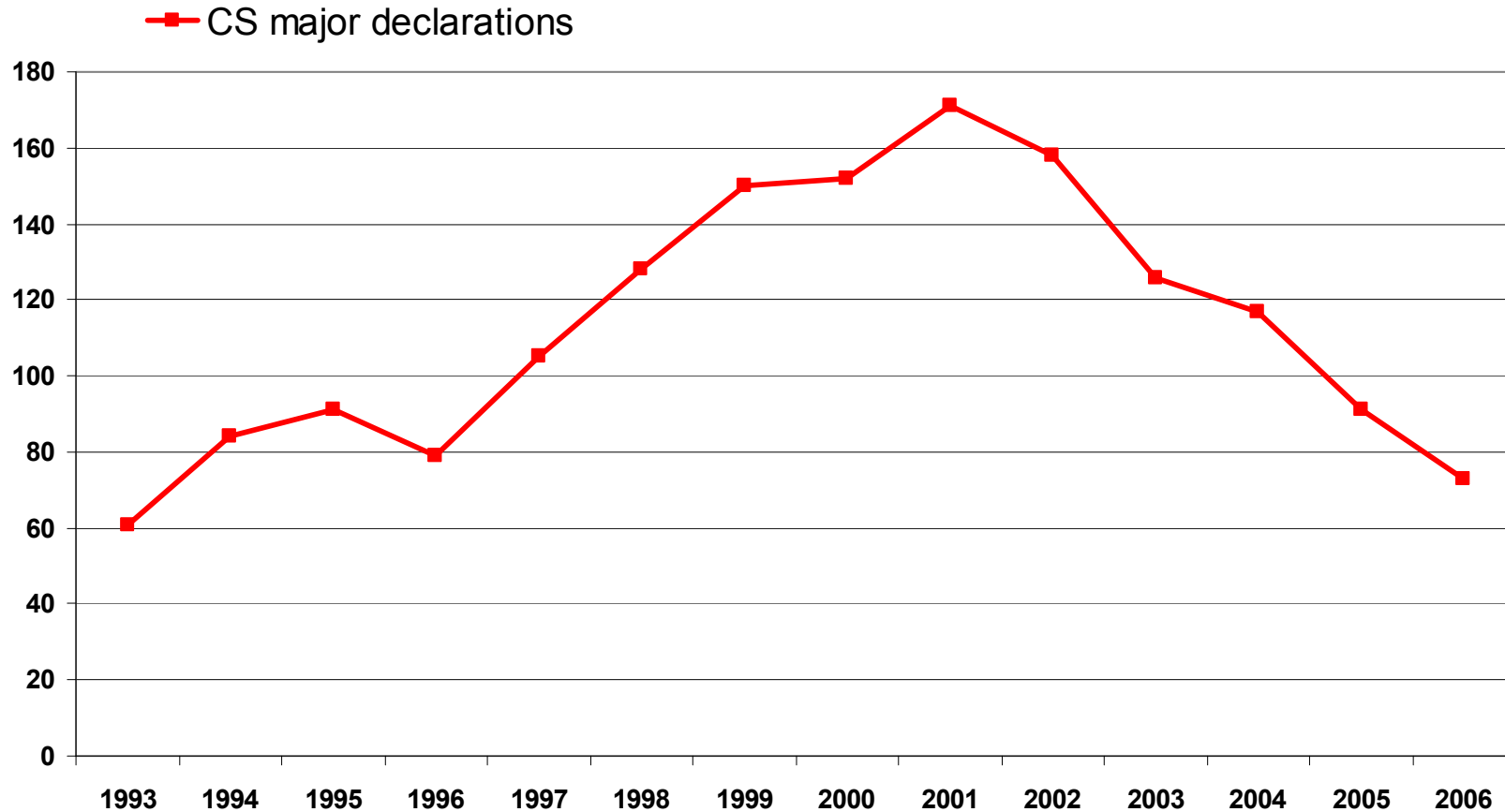


CRA Taulbee Survey on CS Declarations



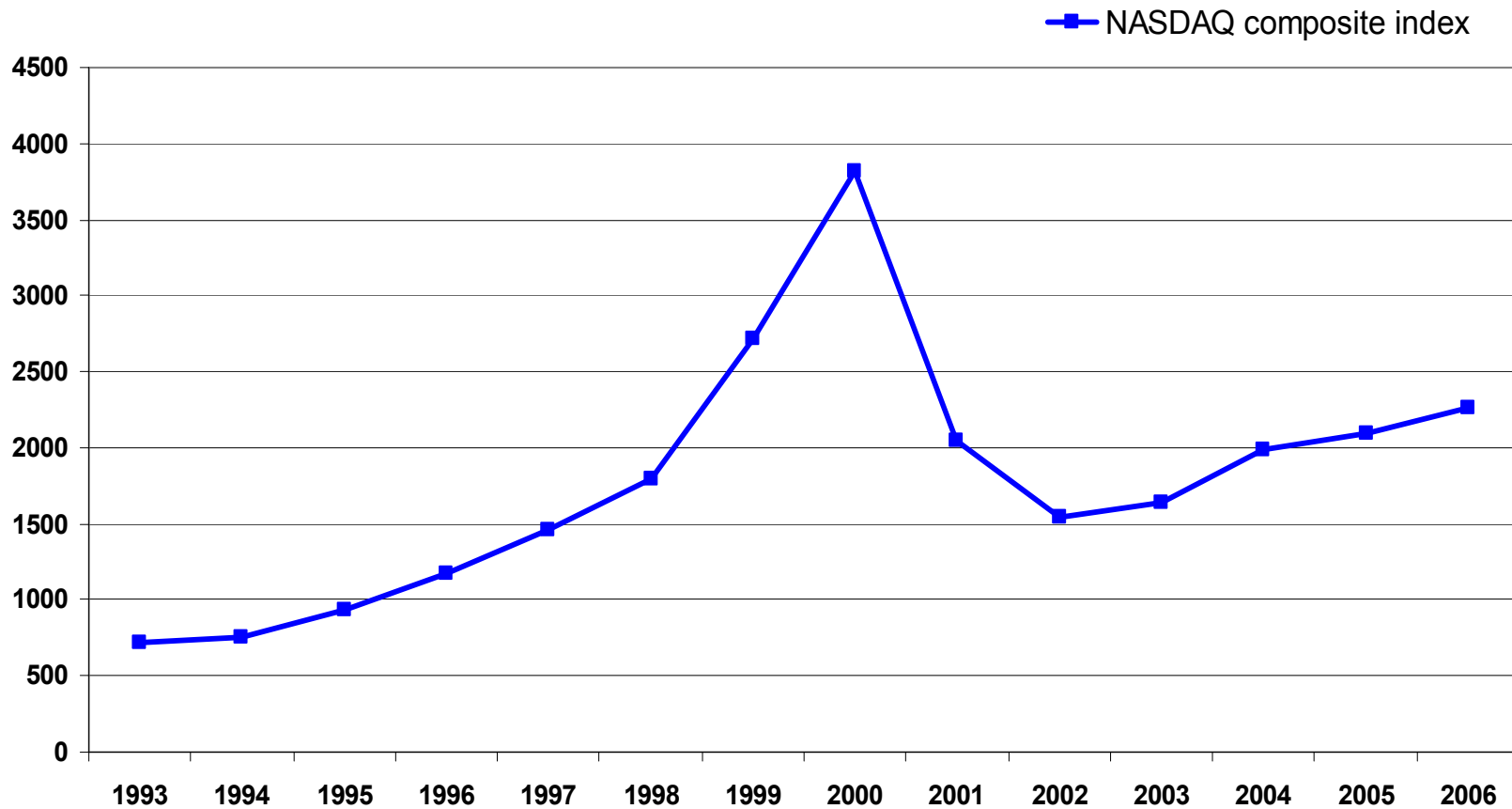
Source: Jay Vegso, *Computing Research News*, Vol. 19/No. 2 (from CRA website)

The Data From Stanford



Thanks to Maggie Johnson for providing this data.

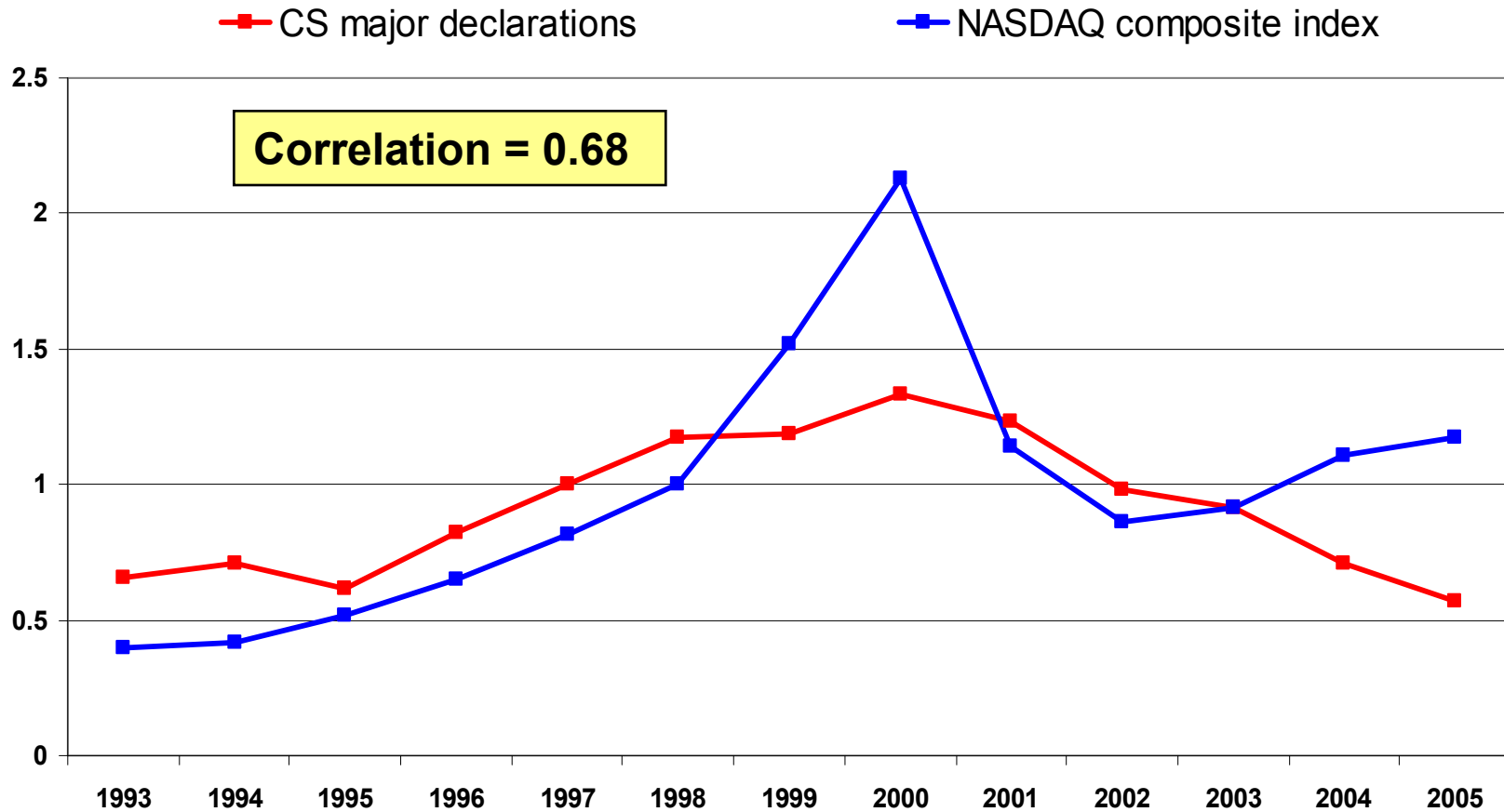
A Slightly More Well Known Graph



Source: Yahoo! finance

The Obvious Correlation

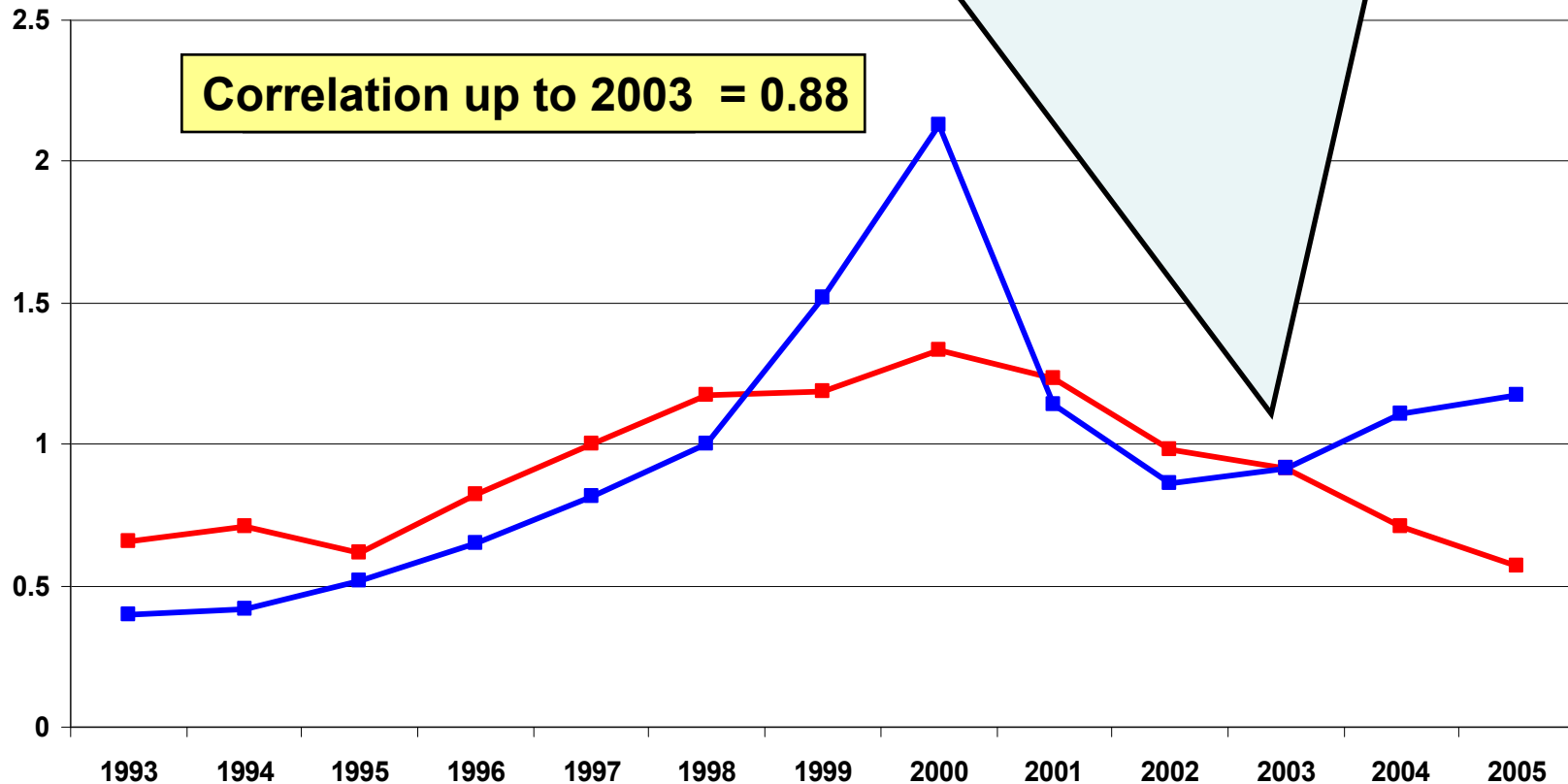
- Normalize both graphs by 1998 values
 - Adjust for a one year lag time in declarations



What Happened in 2003?

By 2003, ... sensational news stories appeared about a supposedly horrific loss of these [computer programming] jobs [due to offshoring].

-- The Washington Times, June 6, 2004

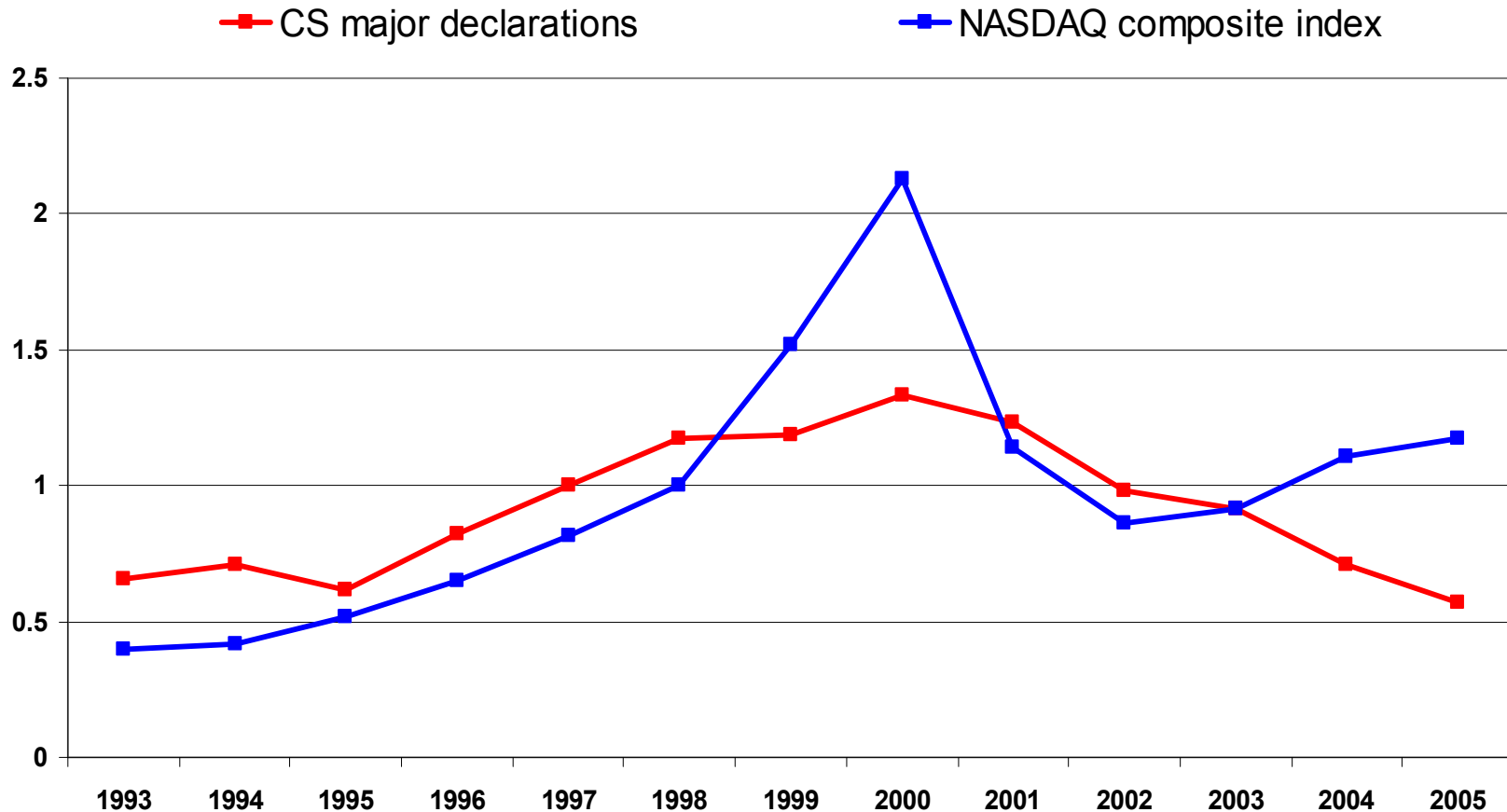


One Possible Solution



Actual bumper sticker seen in Palo Alto circa 2003

Considering the Correlation



The causality in this graph can potentially be bi-directional

Happy to run this analysis for your institution's numbers

Background for This Summit

- ICER West meeting (Org: Judy Cushing and Eric Roberts)
 - Issue raised of involvement/feedback from industry
- NSF CPATH program
 - Discussions with Harriet Taylor about Google's involvement
 - Congratulations to Owen Astrachan and Peter Denning!
 - CISE Distinguished Education Fellows
- Many on-going curricular revisions
 - How can industry provide feedback?
- Smaller forum for more intimate discussion

*Shared responsibility for
computer science education*

Outcomes

- Showcase various initiatives among educators
 - Share ideas for what works and get feedback
- Holding discussions in a broad forum
 - Actively involved academics
 - Industry members (Google, IBM, Intel, and Microsoft)
 - Representatives from NSF and CRA
- Better defining the collaborative role for industry
 - Faculty grants and student support are known
 - Are there strategies beyond just funding?
- One (of many) steps to generate discussion/ideas

Many Thanks!

- Panel speakers
 - Hal Abelson, Lenore Blum, Judy Cushing, Ed Fox
 - Boots Cassel, Phokion Kolaitis, Jane Prey, Alan Eustace
- Google organizers/moderators
 - Ronner Lee(!), Kelly Studer, Maggie Johnson, Jeff Walz
- You

Thank you for your attention.

And, now, our feature presentations...

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