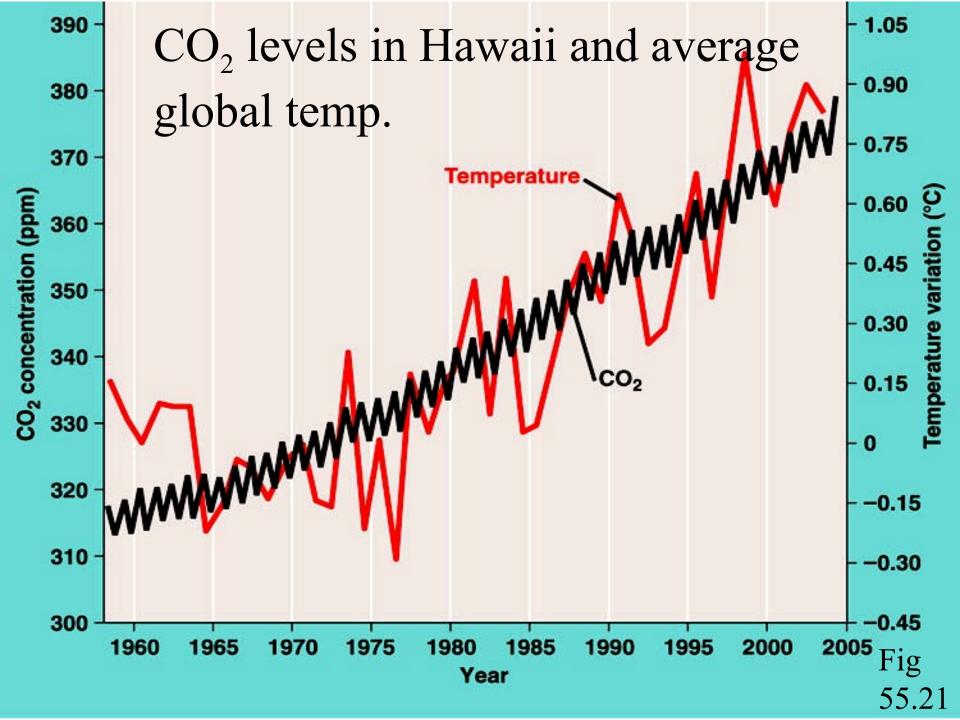
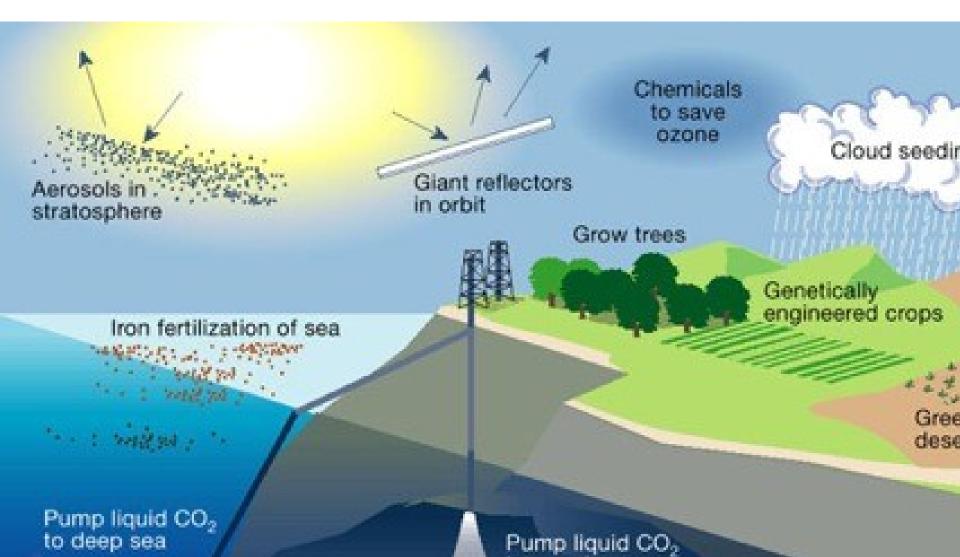
## UGS 303- Research Methods-FRI Dr. Stuart Reichler

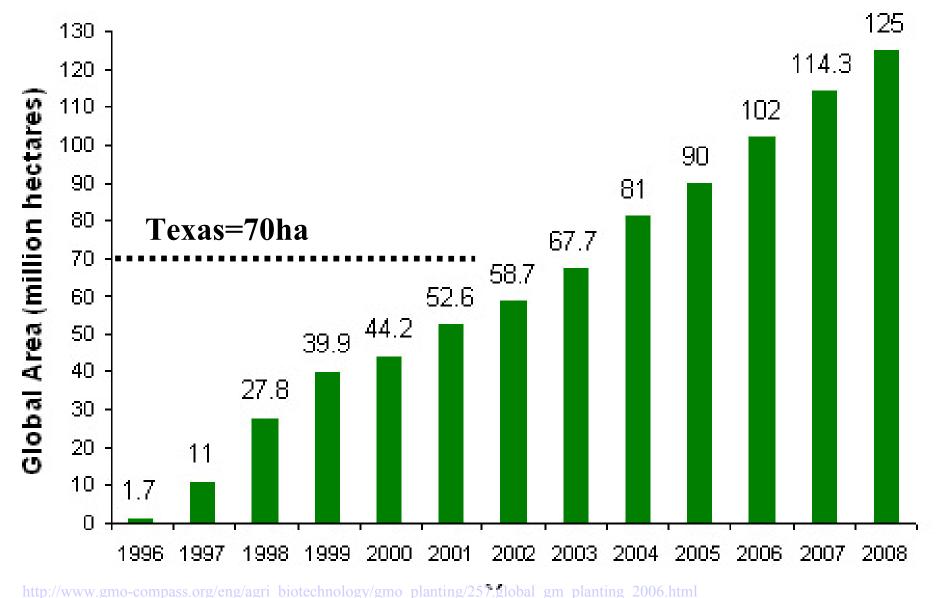




# Ideas for using Geoengineering to lessen the impacts of Global Climate Change

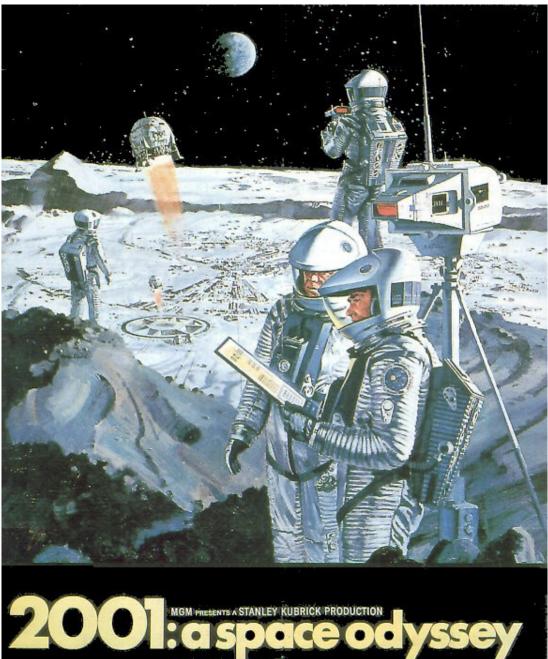


#### Global area planted with GM crops



And http://www.monsanto.com.au/ images/global area chart.gif

## Should we explore/colonize space?



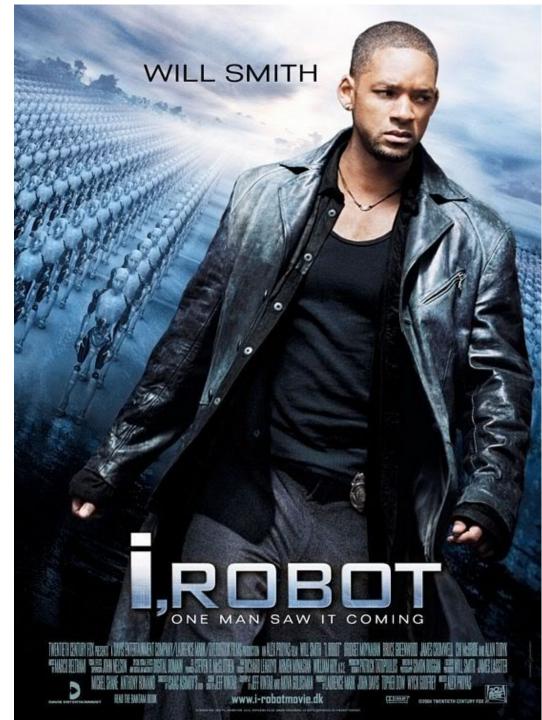


Super Panavision® and Metrocolor

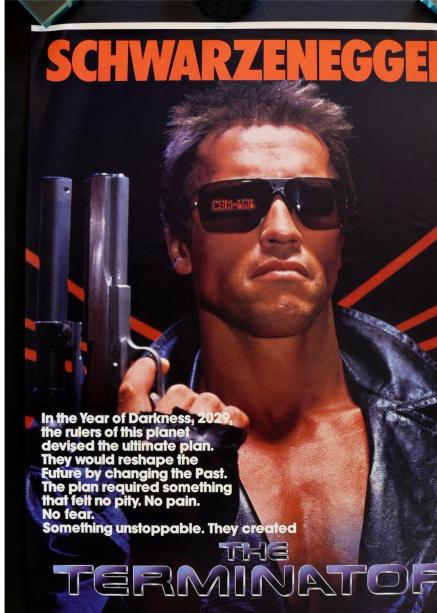
#### What is the best search engine?



#### Robots?



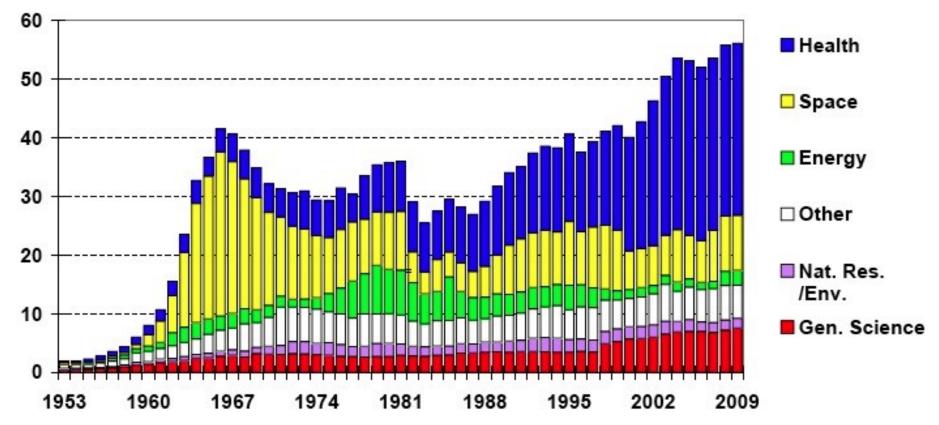
### How much autonomy should our computer networks have?



Hemdale Presents a Pacific Western Production of a James Cameron Film Amold Schwarzenegger "The Terminator" Michael Biehn, Linda Hamilton and Paul Winfield Make-Up Effects By Stan Winston · Executive Producers John Daly and Derek Gibson Written by James Cameron with Gale Anne Hurd · Produced by Gale Anne Hurd An **ORION** PICTURES Release Directed by James Cameron - Prints by DeLuxe ® O1994 Clement 34.4 Greenberg Edmership All rights reaved

#### How should we allocate research resources?

Nondefense R&D by Function, FY 1953-2009 (in billions of constant FY 2008 dollars)

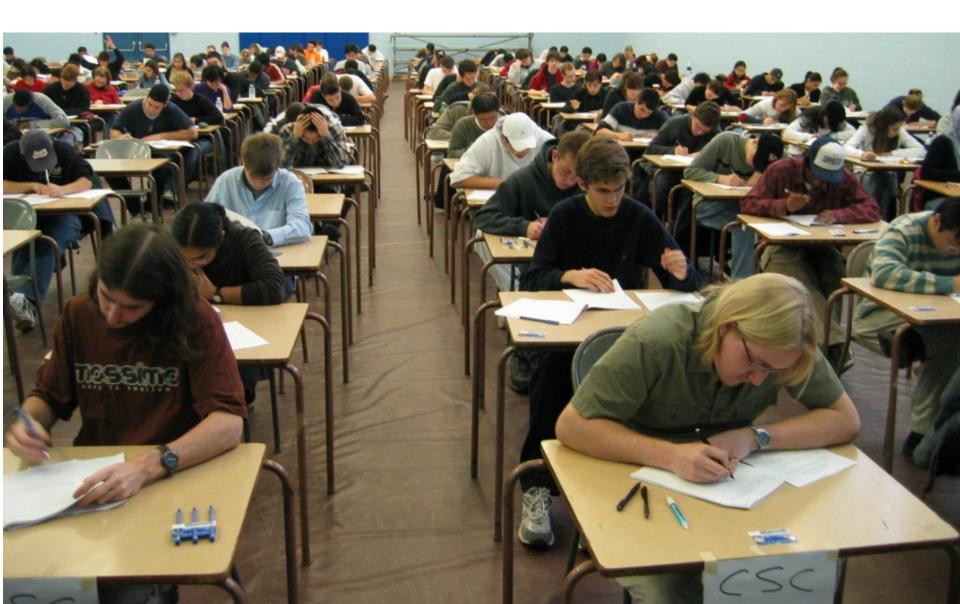


Source: AAAS, based on OMB Historical Tables in *Budget of the United States* Government FY 2009. Constant dollar conversions based on GDP deflators. FY 2009 is the President's request. Note: Some Energy programs shifted to General Science beginning in FY 1998. FEB. '08 © 2008 AAAS



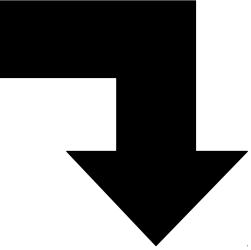
<u>Week</u>	Lecture 1	Lecture 2	Lab
1. W 8/24		Introduction	no lab
2. 8/29	Strong Inference	What is an inquiry?	Journals, Database Searches, Strong Inference, Termites
3. 9/5	no class (Labor Day)	Statistics	Inquiry 1 Proposals due
4. 9/12	Statistics	Statistics	Statistics Practice
5. 9/19	Lab Safety and Inquiry 2	University Lecture Series	<b>Inquiry 1 Presentation</b>
6. 9/26	Authorship and Peer Review	Ethics	Inquiry 2 Proposals due
7. 10/3	Ethics	Presenting and Writing	Ethics Discussion
8. 10/10	Funding Research	Patents	Peer Review
9. 10/17	Research vs Education	If you can't say something nice criticizing research about GM crop safety	<b>Inquiry 2 Presentations</b>
10. 10/24	University Research (Who are all these people?)	My Job	Inquiry 3 Proposals due
11. 10/31	Ethics	Ethics	Ethics Discussion
12. 11/7	My Job	Holism vs Reductionism	Peer Review
13. 11/14	What is success?	What happens after graduation?	<b>Inquiry 3 Presentations</b>
14. 11/21	My Job	no class (Thanksgiving)	no lab Thanksgiving
15. 11/28	Why do we not solve more problems?	Wrap-up	Group Problem Solve

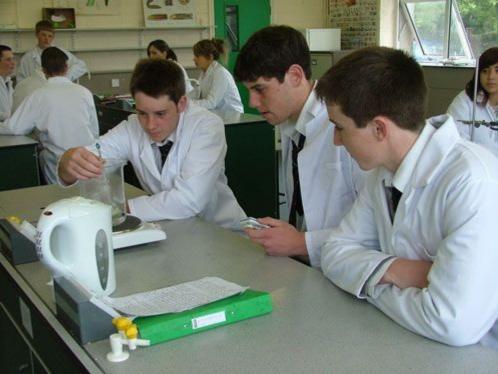
### Most classes...





# This class...

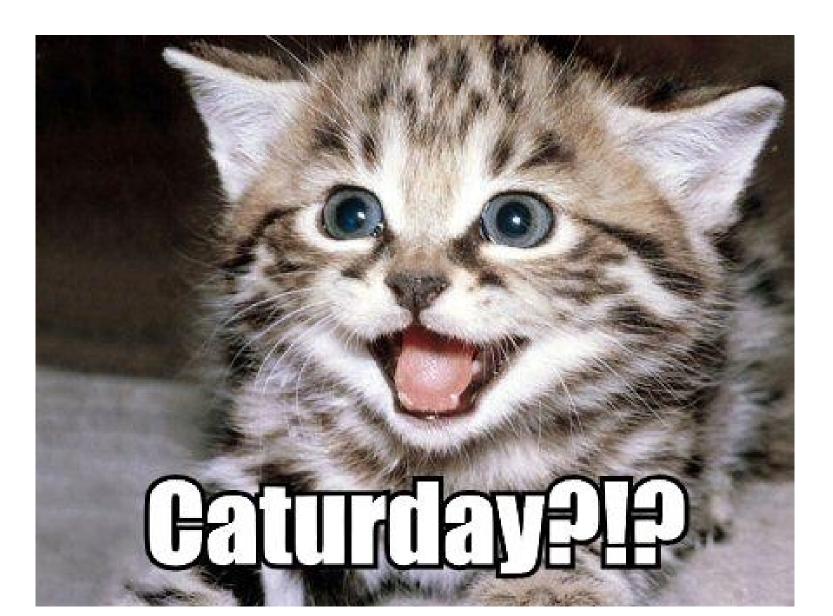




# How would you solve a problem/get an answer to a question?



#### What should you do this Saturday?



# **Getting Answers:**

- •Start with a question.
  - -For example:
- How? Why? When? Where? Etc?

•How do we get answers? -Strong Inference presents one method (article on webpage)

# **Getting Answers:**

- How do we get answers?
  - -Strong Inference presents one method (article on webpage)
- Be ready to discuss this article on T 8/30

### •Class webpage-

http://www.bio.utexas.edu/courses/stuart/class.html

- •No labs this week. First lab next week.
- •Strong Inference article on webpage for the next class.

Waterloo

28th, Ham-5:30

- Looking for something to do this weekend?
- The Hot Sauce Festival on
- Sunday (8/28)

http://www.austinchronicle.com/Market/HotSauce