Ngram google search

• Search in millions of books
• in different languages and
• In different corpuses.
• Can restrict to nouns or verbs etc by appending the syntax _NOUN etc

• Reference: http://books.google.com/ngrams/info
• To search, click on http://books.google.com/ngrams/

• Some examples:
The frequency of the word *gun* in millions of book has grown in USA from 0.003% in 1950 to 0.004% in 2008. The words *rifle* and *bomb* are steady with a frequency of 0.0012%.

French: the word corresponding to *gun*, has a steady frequency of 0.0002%, 20 times less than in USA English books. The frequency of *rifle* and *bomb* is around 0.0008%, which is two thirds of the frequency in USA English.
Public versus private transportation:
Comparing with ngram google the fraction of appearance of *trains* and *cars* in millions of books.

English books: *Car* beats *Train* since 1970
Today, the frequency of car is twice that of train

French books: *Train* beats *Car* since 1950
Frequency of “Train” is twice than “Car”
Comparing the frequency of “Internet” in million of books in USA English, French, German, Spanish.

- In USA the “peak” occurred on 2001, and then there is a decline.
- In the other countries there is still an increase.
- Germany leading.
- We obtained all languages on a single graph by specifying the languages in the search.
Correction: search is case sensitive

• We searched for Internet. What about internet?
• Much less than Internet. But increasing in all languages.
• Very few in German. Why? In German, nouns start with capital letters.
Adding up to get case insensitive words

- Use + sign to add up (with and without capital letter).
- Minus, division and multiplication are also defined.