Gianluigi Fioriglio

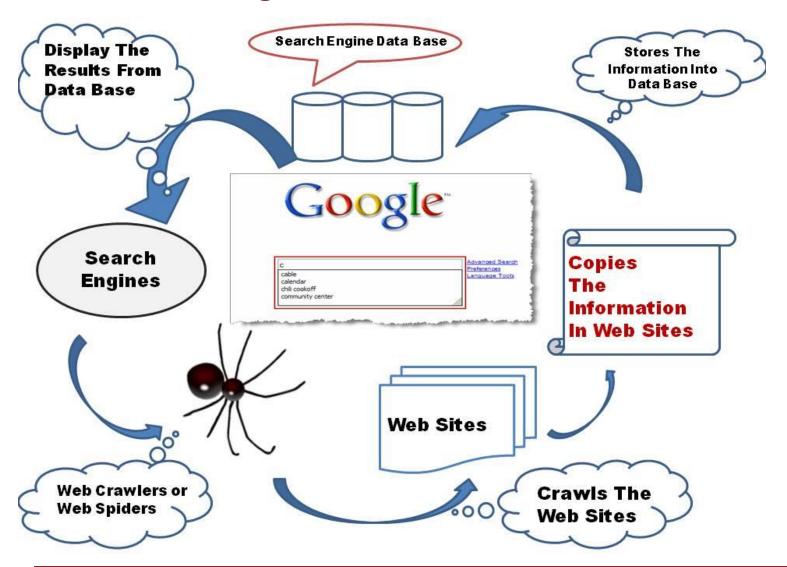
Search Neutrality and Algorithmic Accountability between Freedom of Speech and Consumer Protection



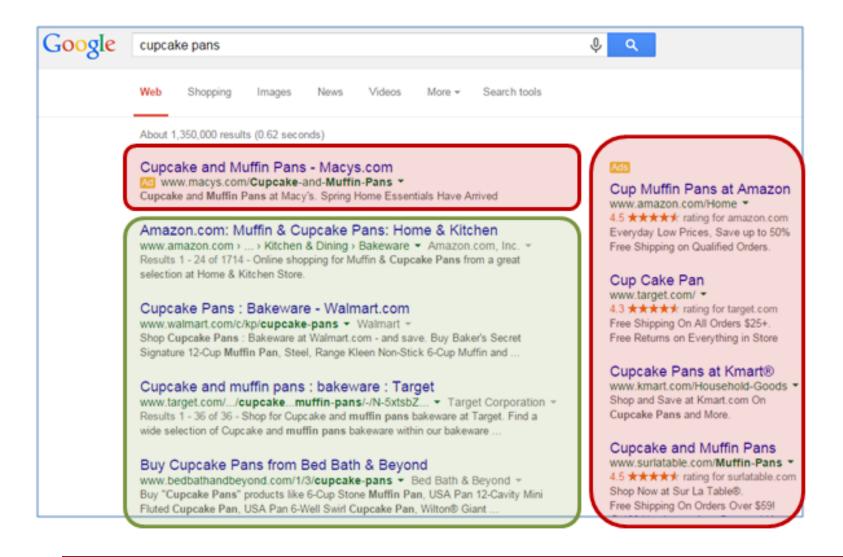
Outline

- Introduction: the technical and legal framework
- The impact of search engines
- The right to be listed
 - Neutrality and accountability
- Questions

How a search engine works



SERP



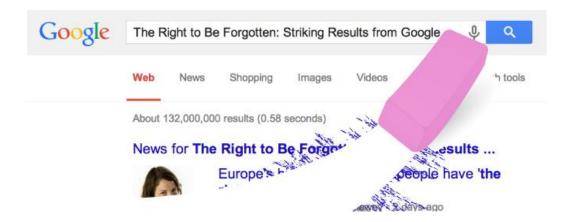
Some questions

- How does a search engine build a SERP?
- How does it decide
 - What it is shown, and
 - Its ranking?
- Secrecy (... Black boxes)



The legal framework: where do we stand?

- The Google Spain Case (European Court of Justice, C131-12)
- The right to be (digitally) forgotten
- Web Publishing / finding



Virtuous circle

1) SE works properly.

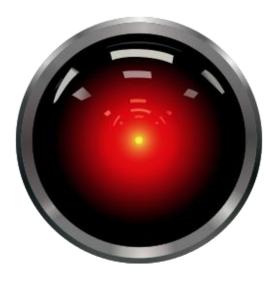
When does a search engine work properly?

- 2) Listing is carried out in compliance with
 - A. Neutral and
 - B. Embraceable Rules.
- 3) Operations are correctly performed.

Algorithms and software agents

- **Decisions** (ranking; hide or show?)
 - (site B was/is also omitted...)
- Errors (anomalies and bugs, etc.)





The impact of search engines

- Freedom of speech
- Consumer protection
- Business protection







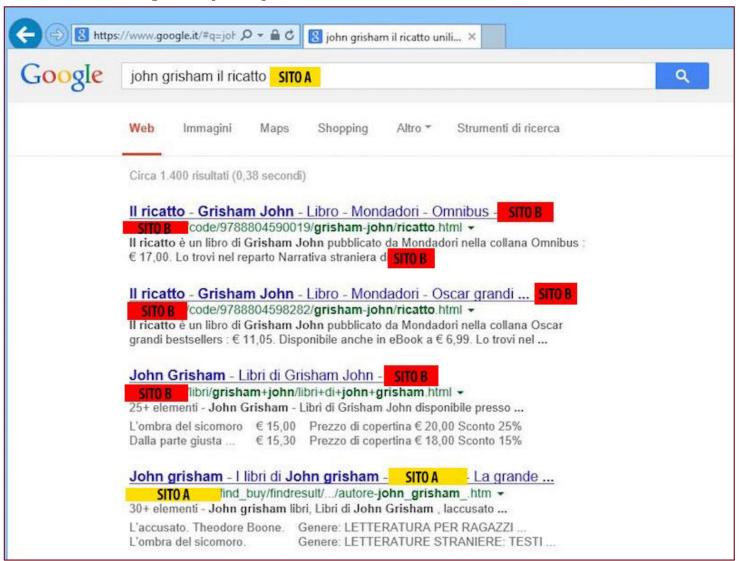
One example (1/2)



Site A: unique word (no other meanings)

Site B: unique word (in Italy)

One example (2/2)



How can it happen?

- Software agents -> autonomous software (algorithms are executed)
- The challenge of language understanding
- SE = expert system
- Software agents "thought" that Site A and Site B were synonyms...

The right to be listed

- Is there a right to be listed?
- Providers' (algorithmic) liability

- Current E.U. laws
- Issues of current laws (Dir. 2000/31/EC)
- Duty of transparency (and reasoning of the SE)

Questions

- E.U. vs. U.S. legal regimes



- Effectiveness of legal remedies, and the issues of:
 - Costs
 - International providers
 - Reverence
- Intellectual Property Rights on algorithms / software vs. burden of proof