

Cyberdemocracy Today

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The Speed of Change

- Connected world population
 - 1994, Year 0 of the Web: – 1% connected
 - 2014, 20 years later: 35% connected
 - +50% very soon
- Social empowerment
 - Free and massive distribution of emission and reception, rise of social media
 - Wordpress: 2003, YouTube: 2005, Facebook & Twitter: 2006
- Material
 - Computing: biggest part now in the cloud
 - Interfaces: domination of smartphones and tablets
 - iPhone: 2007, iPad: 2010

An Algorithmic Medium

- **Information ubiquity**
- **General interconnection of people and content**
- **Automation of symbol manipulation: algorithms**

=>The rise of the algorithmic medium can be compared to the invention of writing 5000 years ago

⇒Toward new content, genres, institutions and techniques of communication

⇒The future global civilization is practically impossible to imagine

Layers of Political Subjectivity

Soft City

+ 2000

Real time global interpersonal networked communication.
Distribution of communication power. Data-centric politics.
Control on algorithms and data. (Algorithmic medium)

Nation-States

+ 1500

National citizenship. Tax, health, education, justice, military,
discipline... (typographic medium)

Civilisations

– 1000

Empire, geo-theological universal perspectives (literate
medium) Persian, Greek, Latin, Chinese, Indian, Anglo-
sax, etc.

Territories

– 5 000

« Down to earth », *hierarchies* (scribal medium)

Tribes

– 300 000

F2F, family, nomadism, *war*. (oral medium)

A Data-Centric Society

- Stigmergic Communication
 - Communication by transformation of a common environment (the digital memory)
- The power of meta-data
 - Meta-data = classification / organization of data
 - Democratization of categorization #hashtags
- Data-centric institutions / politics / conflicts
 - Organized around meta-data, data and algorithms

Cyberdemocracy: distribution of power in the global soft city

- Fight censorship and compartmentalization
- Foster symmetric transparency and net neutrality
- Grow the commons
- Give back their data to the people that produce them
- Democratize big data analysis
- Spread literacy and critical thinking adapted to the algorithmic medium
- Augment collective intelligence by making it reflexive

What Is an Idea?

[Concept + Affect + Percept] + Social context

Translation in the algorithmic medium of the future:

[Category + Value + Data] + Social context

What is Cognition?

Self-reference, growth, reproduction,
evolution, cross-pollination
of ecosystems of ideas

Reflexive Collective Intelligence

- **Ecosystems of ideas** emerging from collective intelligence in a new generation of social media
- Displayed around each people, community, thing, place, work of the mind...
- Interaction through holograms in VR or AR, by Google glasses or tablet
- Embedded powerful tools for selection, exploration, analysis, synthesis, semantic distances measurement
- Symbiosis communities / ecosystems of ideas
- Symbiosis individual / collective learning