I, Internet: We are more Borg than we thought



Christiane Rütten | cr@23bit.net | twitter.com/p4ula | #iinternet

On science

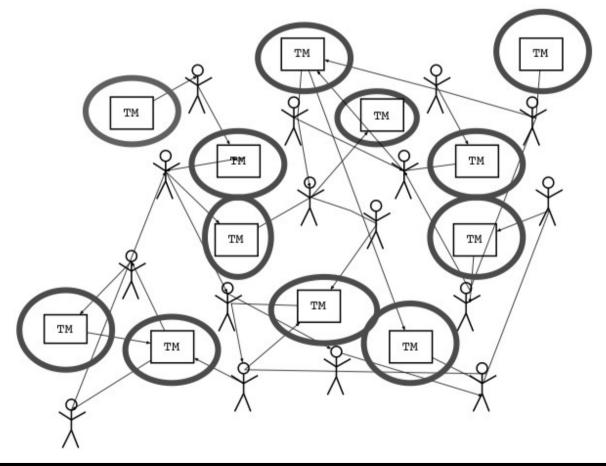
"And just because there is a very different degree of certainty where we can prove or at least convincingly affirm like in the Hard Sciences, this certainty comes at the price of being unable to talk about those things that cannot be proven or computed, that belong into the sphere or society, culture, and contingency."

Dr. Martin Warnke, kutur.informatik, 2004

Informational systems

- Synthesis
- Mimesis
- Contingency
- Autopoiesis
- Emergence





Warnke, kultur.informatik, 2004

Emergence

"Therefore, emergence is not just accumulation of complexity, but a break and fresh start in complexity."

Luhmann, 1994

Emergence (example)

heise online > News-Foren

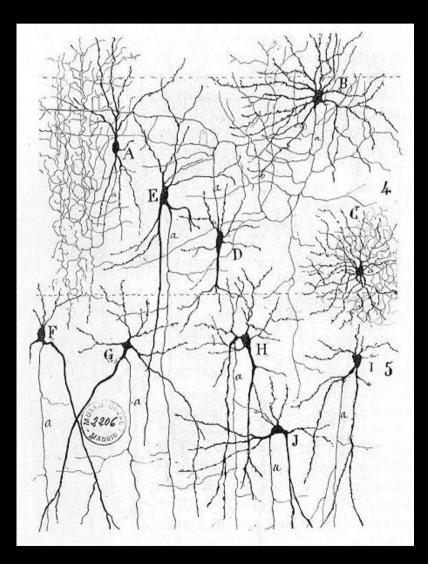
Allen Lesern frohe, erholsame und friedliche Feiertage!

Startseite > News-Foren > Allen Lesern frohe, erholsame und friedliche Feiertage!		
Seite 1 <u>2</u> <u>3</u> <u>4</u> Neuere <u>Ältere</u> <u>Alles aufklappen</u> Alles zuklappen <u>Neues Thema</u>		Suchen
□ Ich wünsche allen frohe Weihnachten	Micha 2008	24.12.09 18:45
Auch von mir	Wheel	24.12.09 18:40
Danke und gleichfalls	Darth Bermel	24.12.09 18:19
"Ihre Meinung interessiert uns!"	TufkaLL	24.12.09 18:14
Allen angeschlossenen Funkhäusern, ein frohes Fest	Dadiedoedeldu	24.12.09 18:12
Allen Heise-Redakteuren,	Euripides	24.12.09 18:10
Grüne Welle / Rote Welle / Alternierende Welle? (2)	GeneSys386	24.12.09 18:10
Gehts noch? (5)	kappeskarl	24.12.09 18:42
Frohe Weihnachten den Schreiberlingen von Heise und allen Foren Mitgliedern	Wolfgang Nohl	24.12.09 17:38
und nach dem Fest geht es weiter mit	Onkel Wanja	24.12.09 17:36
Frohe Weihnachten auch an Schäuble, von der Leyen, der Medienindustrie	helli72	24.12.09 17:33
Frohe Weihnachten (nt)	Carl0z	24.12.09 17:30
□ @heise	grumbazor	24.12.09 17:29
Frohes Fest wünscht auch hier jemand (2)	didada	24.12.09 18:36
□ Vielen Dank	Flans	24.12.09 17:06
Euch auch!	Mr_Biggun	24.12.09 17:02
Seite 1 <u>2 3 4</u> Neuere <u>Ältere</u> <u>Alles aufklappen</u> Alles zuklappen <u>Neues Thema</u>		Nutzungsbedingungen

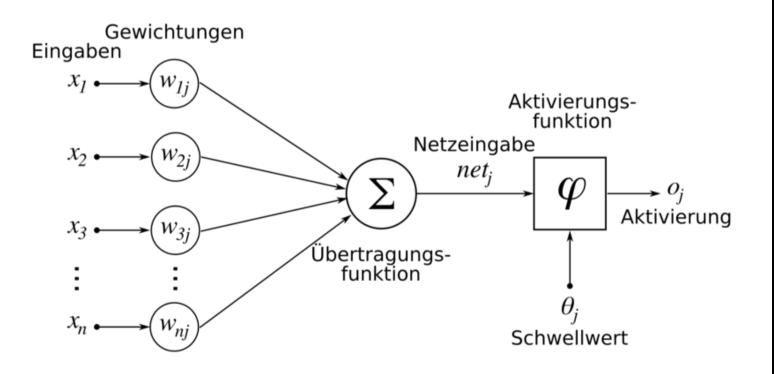
In Thread-Darstellung zeigen In Eingangsreihenfolge zeigen

Biological neuron

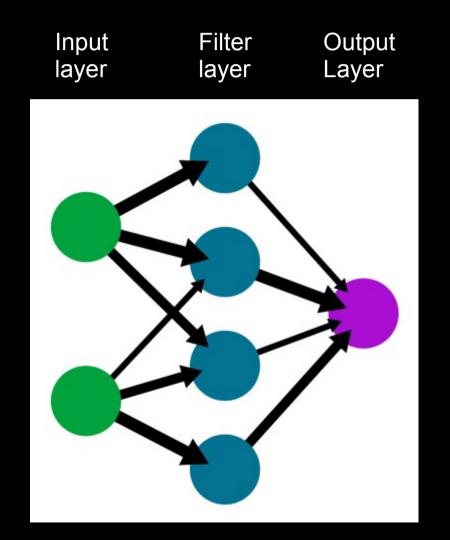
- Input: dendrites
- Output: axons
- Information: electrical impulses



Artificial neuron

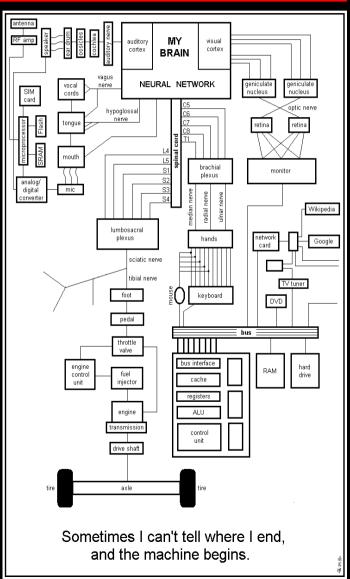


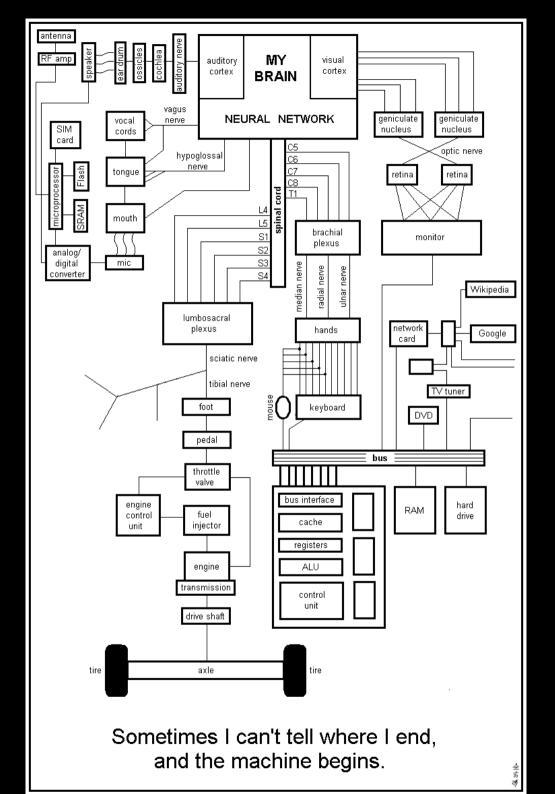
Neuronal network



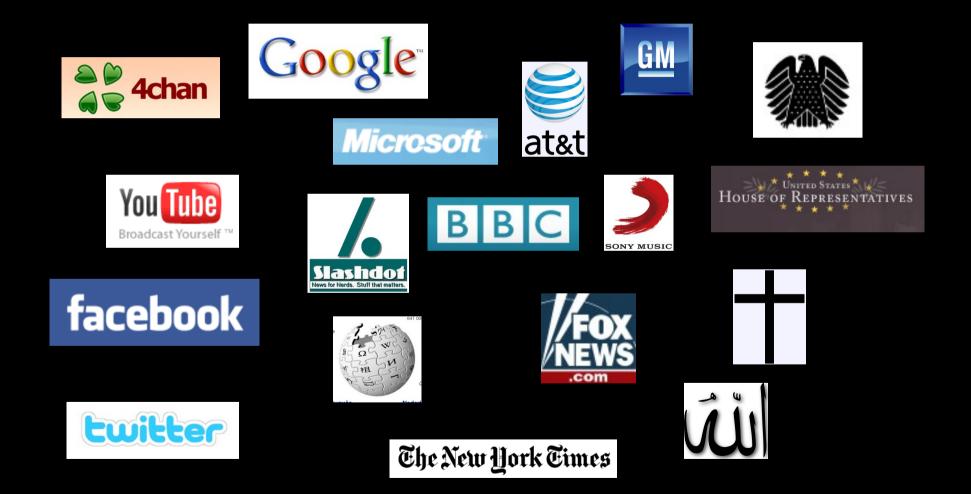
The Illusion of the Individual

- I think, therefore I am (Borg)
- Questionable boundaries
- Artificial limbs
- Augmented reality
- **I/O**
- Implants
- Explants





Borg everywhere



Political parties and governments

Slow on adapting modern communication

- Very few, but "educated" constituents
- Output: laws, statements

Corporations

- Hierarchical structure
- Static graph
- Little node flux
- Fast internal communication
- Few people contribute to information
- Highly-filtered output

The Media

Input: more complex systems

 Increasingly New Media

Reduce information complexity
Output to less complex systems

The New Media

- Blogs
- Forums
- Portals
- Internet-based
 - Efficient information distribution
 - Low latency
- Open for contribution

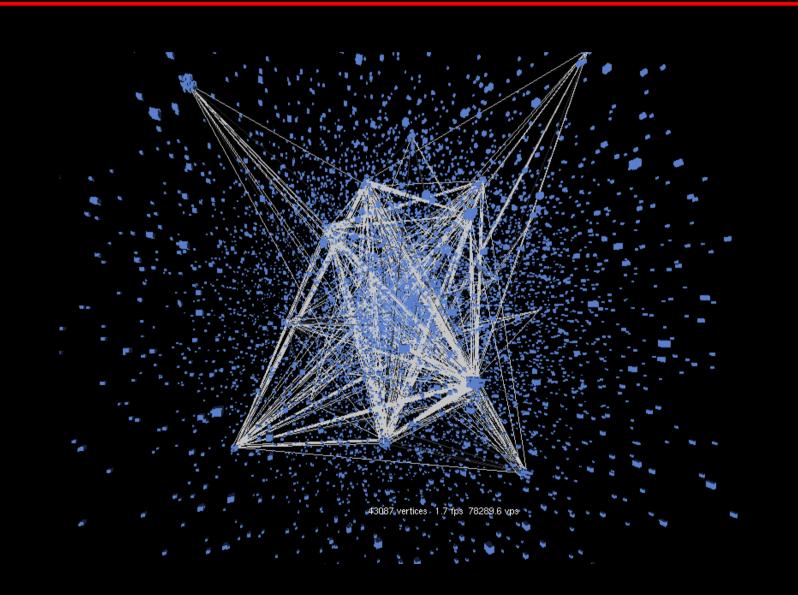
4chan

- The Anonymous /b/-ing
- Topic-centric network
- Short memory
- Mostly for teh lulz

Twitter

- 126 followers on average
- ~2 million tweets per day
- Peaks: 300 tweets per second
- ID-centric network
- Topical/relational clustering

Twitter graph



Borg emotions

- **F**un
- Grievance
- Anger
- Fear

_ _ _

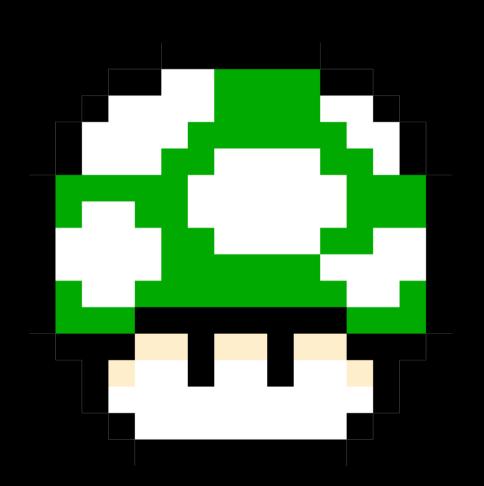
Self-preservation

Borg wanna have fun

#songsincode

- @neave: if (stop == true) { hammerTime(); this.touchEnabled = false; }
- @ara_p: var alabama = {location: "127.0.0.1", skies: "#00f"}
- @sstaver while (false) { giveUp(u); letDown(u); runAround(); desert(u); makeCry(u); System.out.print("Goodbye"); tell(lie); hurt(u); }
- **-** ...
- "Man years have been wasted."

Borg in grievance



Borg tantrum

mostly while processing input of political nature.

Borg in fear

- Self-preservation
- Losing/gainig control over competitors
- Censorship debate
- Strong attitude towards information freedom

Being Borg feels like...

- 100 eyes
- 100 ears
- 100 memories
- 100 ideas
- 100 life experiences
- 100 emotions
- 100 opinions
- 100 hands
- 100 voices

The power of collective consciousness

- Collective intelligence
- "No more heinleinian polyomaths, instead a web of geeks, all of whom knows a lot about something." (Neal Stephenson)
- Technology symbiosis
- We are many.

Thanks!

Resistance is futile.