

# What is Web Science

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# Our team



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# Why are we here?

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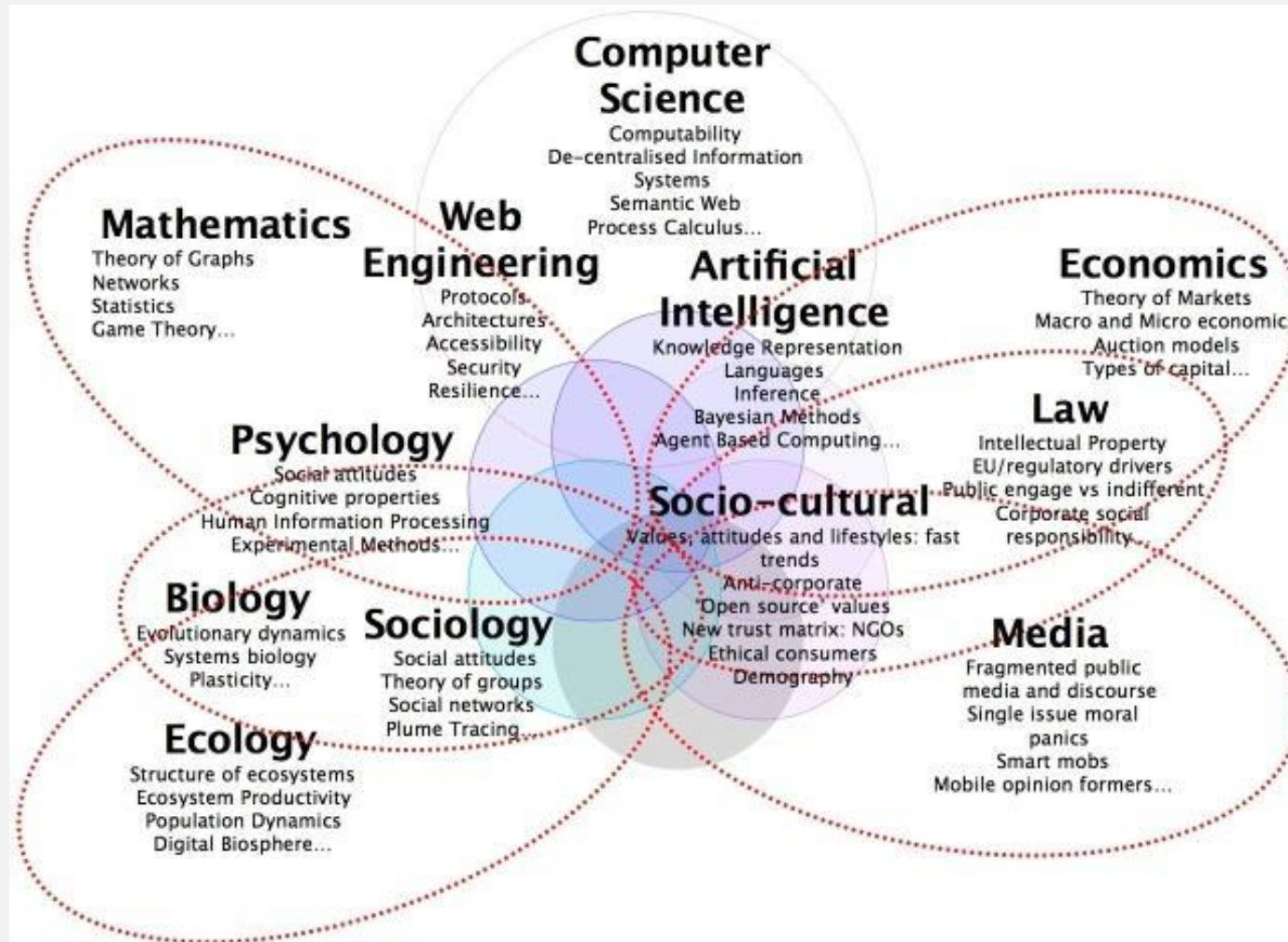
- Web Science
- Web is new but extremely influential
- We need to understand it
- Future development of the web
- Opportunities and threats
- Web Science is interdisciplinary

# What is Web Science?

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- Multidisciplinary approach to understanding the web
- Reason for the new science to appear
- The aim is to find how humans can benefit

# How is Web Science related to different disciplines?



# Relation between Web Science and Computer Science

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- Faster search algorithms
- Graph theory
- Data encryption
- Main questions in the field of Computer Science and IT

# Social aspects

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- Online communities
- Social structures
- Trust and reputation
- Morality and ethical questions

# Conclusions

- Web Science is still very new
- Highly interdisciplinary
- Technical aspects are just a small part
- Might develop into big area of research as its used





# References

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3. A Framework for Web Science, Berners-Lee, Tim; Hall, Wendy; Hendler, James A. ; O'Hara, Kieron; Shadbolt, Nigel; Weitzner, Daniel J. , Foundations and Trends in Web Science, Vol 1, Issue 1, 2006, pp 1-130, [online: <http://www.nowpublishers.com/articles/foundations-and-trends-in-web-science/WEB-001;jsessionid=F346B099A0FBBE3A6D7C83051DEAD103>]
4. "Creating a Science of the Web" Science, Tim Berners-Lee, Wendy Hall, James Hendler, Nigel Shadbolt and Daniel J. Weitzner, August 11, 2006 pp. 769-771, [online: <http://eprints.soton.ac.uk/262615/1/ws.html>]
5. Web science: a provocative invitation to computer science, Ben Shneiderman, "Communications of the ACM - Smart business networks", Volume 50 Issue 6, June 2007, Pages 25 - 27, [online: <http://dl.acm.org/citation.cfm?id=1247022>]
6. Web Science Meets Network Science, Alex Wright, Communications of the ACM, Vol. 54 No. 5, Page 23, [online: <http://cacm.acm.org/magazines/2011/5/107690-web-science-meets-network-science/fulltext>]

# Background reading and interesting materials

- Professor Wendy Hall explains Web Science:  
<http://webscience.org/professor-wendy-hall-explains-web-science/>
- Professor Nigel Shadbolt explains Web Science:  
<http://webscience.org/professor-nigel-shadbolt-explains-web-science/>
- Web science: an interdisciplinary approach to understanding the web,  
<http://dl.acm.org/citation.cfm?id=1364798>
- Web technologies,  
<http://www.comptechdoc.org/independent/web/>
- Why do we need web science?  
<http://www.slideshare.net/webscikorea/why-do-we-need-web-science-research>
- What is Web Science?  
[http://domino.research.ibm.com/comm/research.nsf/pages/d.com\\_psci.podium.shadbolt.html](http://domino.research.ibm.com/comm/research.nsf/pages/d.com_psci.podium.shadbolt.html)
- <http://www.rpi.edu/dept/IT/>