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Introduction to Information

Course Introduction:

What is Information?

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Traditional Definition...

- Pitfalls: info is so insignificant?
 - ⊌Is information just a set of pointers, even gestures?
 - A postmodern premise: does information make meaning?

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Information as Conscious Expression

- Chirps and grunts
- Signals—non-verbal communication
- Hearing, noticing
- Attention
- Do we make our own realities though our communities of expression?

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Information as Control

- Industrial Systems
- Laws
- Standards
- You name it...
- Does content prescribe the user?

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Existential Information

- Planetary issues & the cosmos
- The "red shift"
- Schroëdinger's Cat, "negative information"

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Information as Life?

- Nervous system and consciousness as information systems
- Wolfram and ANKOS
 - **@combinatorics**

 - Gemergent systems and non-linearities
- Distributed information as a new, evolving life form(?)

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Social Informatics

- Information and Power: Who's in, who's out—the gatekeeping function
- Codifications of information, from languages to laws, to classification systems
- Standards
- Abstractions, practices, and situated knowledge
- Digital divides and cultural chasms
- Peer-to-peer systems, cognitive communities, and emerging new knowledge

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Why this course???

- Contrast to Computer Science

 - ⁹ "our side of the screen"
 - the world of practice
- Politics of empowerment
 - If information is power, the ability to master it and the needed tools empowers YOU
- Tools and frameworks: foundational knowledge
- Focus on emerging, "hot" issues in emerging Robert L. Systems, at network dynamics, human factors, etc.

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Goals of the course

- Major approaches: politics, economics, public policy, history, culture
- Major topics: Information literacy, "how it's done," economic & business models, privacy, accessibility, censorship, intellectual property, globalization, digital divide
- Emerging expertises: from coding to social analysis
- —review the syllabus

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Requirements

- Attendance in lecture and sections
- Express interesting ideas
- Exams
- Other details?
- <http://www-personal.si.umich.edu/~rfrost/courses/ SI110/>

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