

Memory & Constraints

Northeastern University CCIS - IS 4300 – Human-Computer Interaction

Lecture #2, Guest Lecturer Dr. Barbara Barry

9/13/2012

Human memory: nuts & bolts

Encoding Memories

Long-term vs. Short Term

Declarative (Episodic & Semantic) vs. Procedural

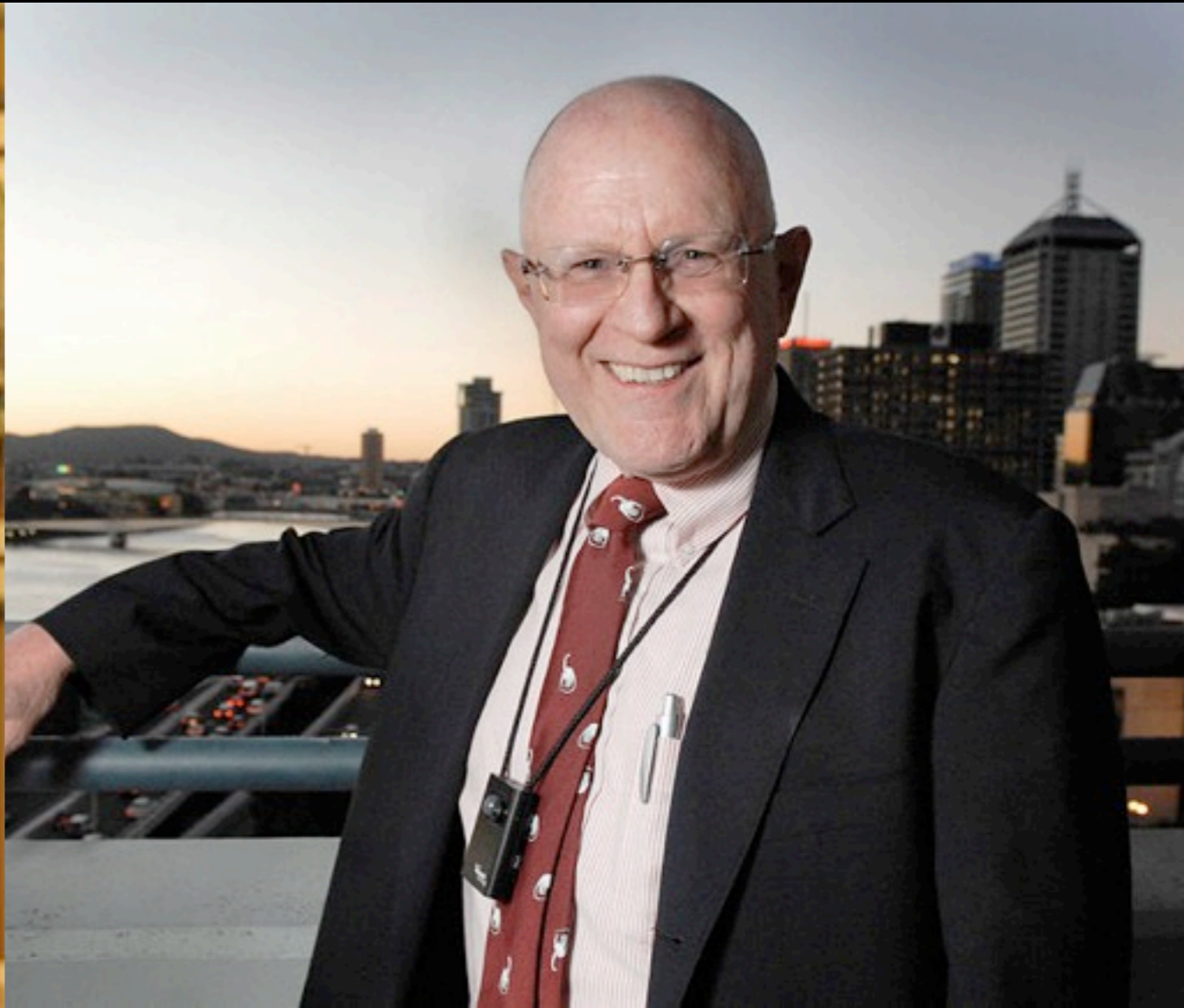
Mechanism vs. Object

Individual vs. Collective

XUX: Remembering & Forgetting

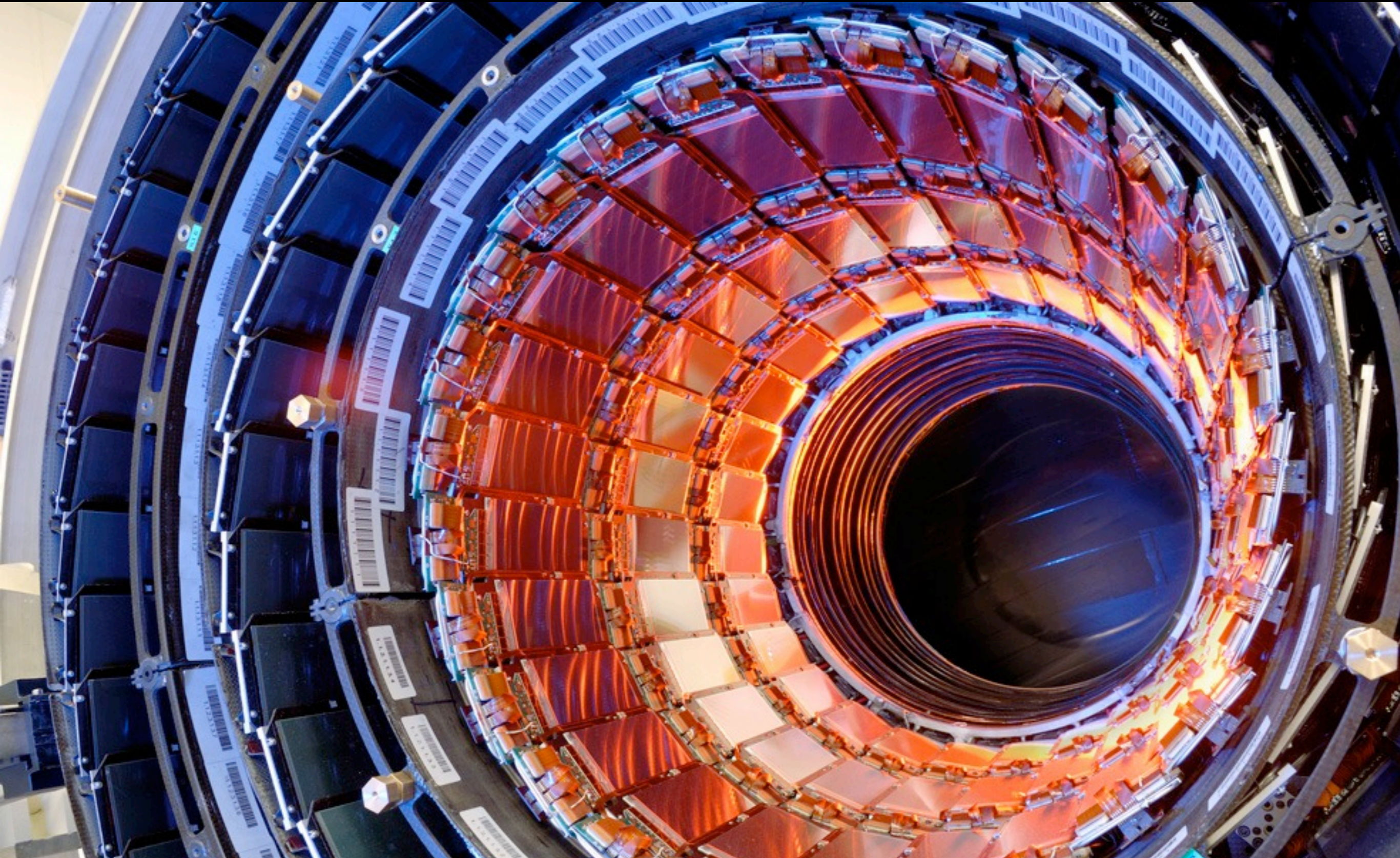


Hyperthymesia: Jill Price

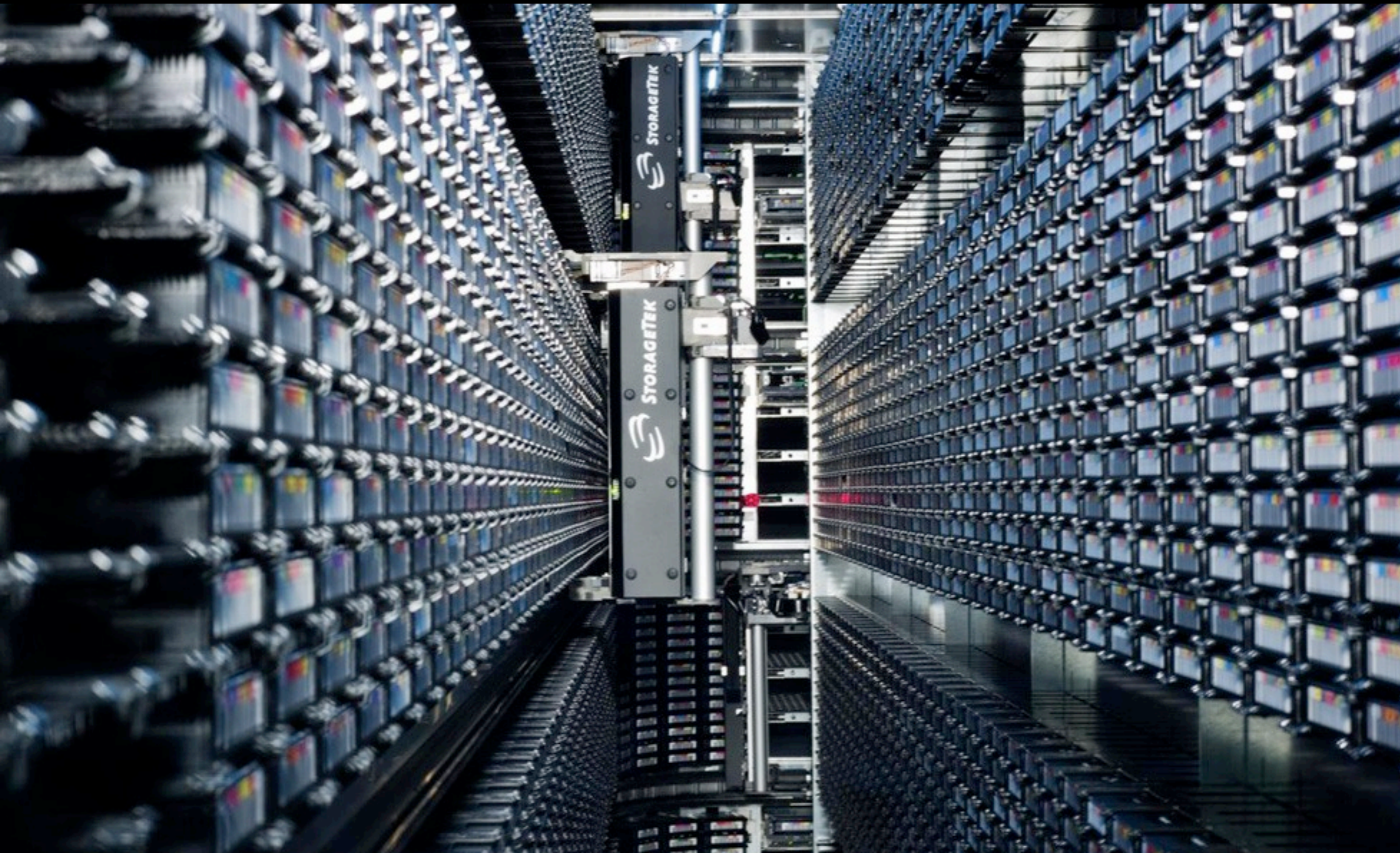


MyLifeBits: Gordon Bell

Capturing data is Remembering (sort of)



Capture Constraints & Design Decisions



Bartlett Experiment: Lessons Learned

- 1. The brain, mind is not a tape recorder**
- 2. Memory recall is individual and context dependent**
- 3. Memory encoding is influenced by goals, attention, and emotion**
- 4. (Task switching and attention diffusion has a cognitive cost!)**
- 5. Experiment to understand your user and to learn about human behavior**

Project Idea Presentations

Who are you?

What is your project idea?

Who is your ideal user?

What motivated you?

What's novel about it?

What's challenging about it?

Why should others join up with you to work on this?

.....in 5 minutes