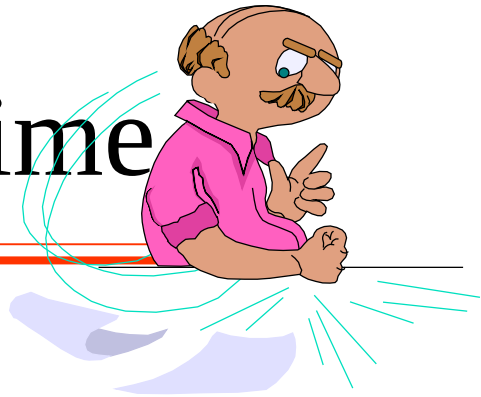
Vision

Steps

News

Contributions

The read-your-slides crime



- Do not read your transparencies. People in your audience know how to read, and reading will just annoy them. Also, you should be sure that you have only a few words on each transparency and that the words are easy to read.
- Do not stand far away from the projected transparency, because then people in the audience will have to divide their attention and end up looking at your presentation as if it were a tennis match, with their heads swinging as the ball flies back and forth.
- Try to have a picture or icon on each slide, but not goofy clip art. Use simple, easy to comprehend images that will serve as handles for your ideas.

The read-your-slides crime

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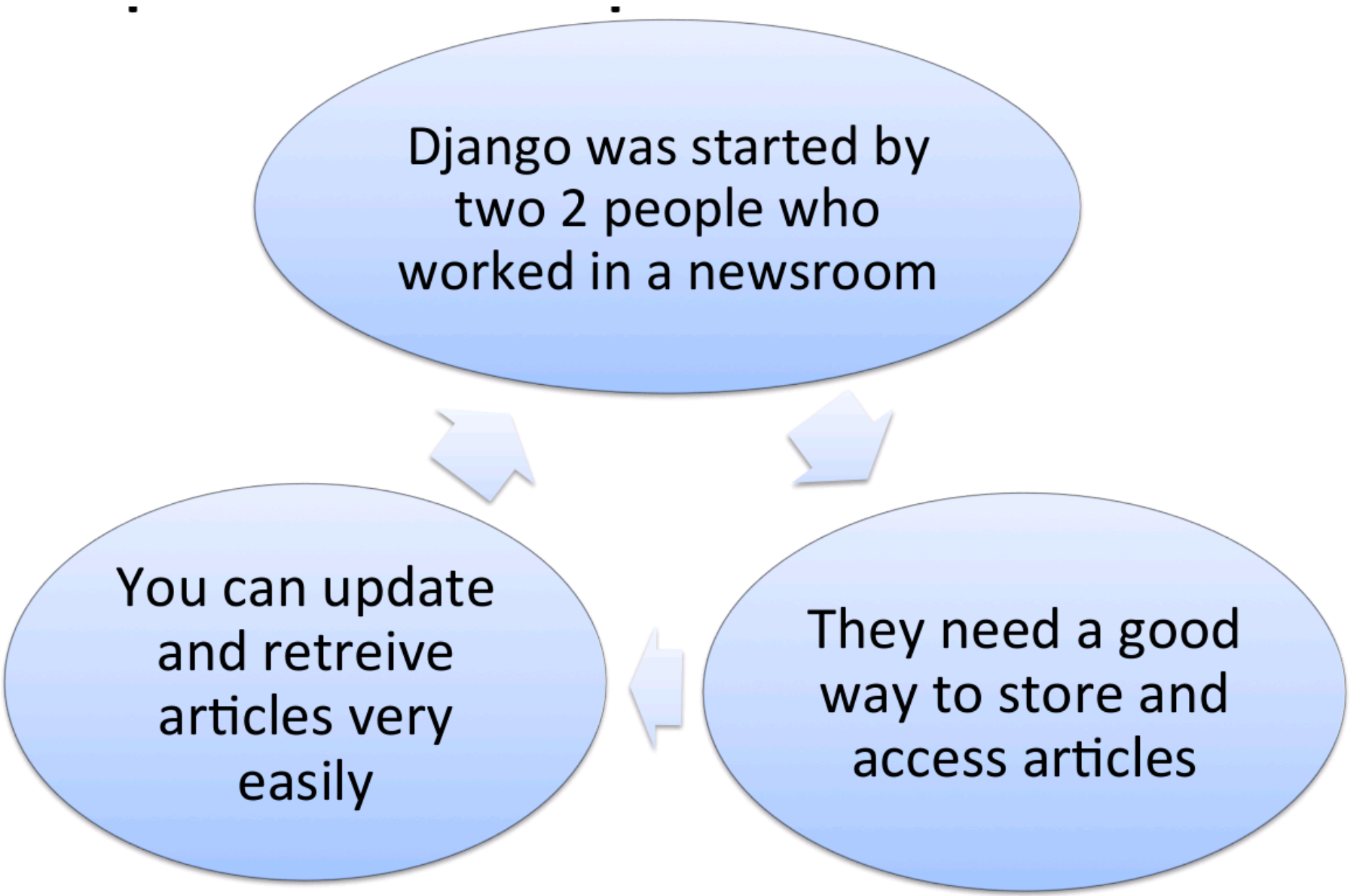
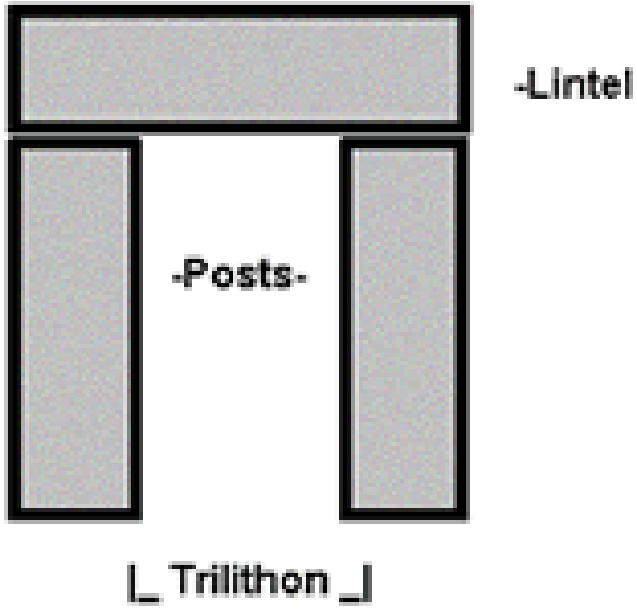

Django was started by two 2 people who worked in a newsroom
They need a good way to store and access articles
You can update and retreive articles very easily

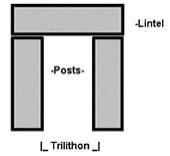
I wish you hadn’t talked so much. It was distracting.

The title crime

Optional

- **Do not read**
- **Be in the image**
- **Use simple images**





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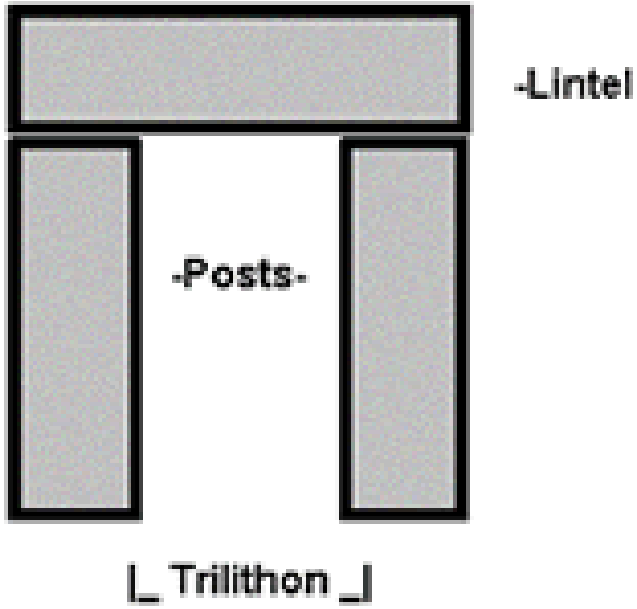

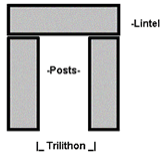

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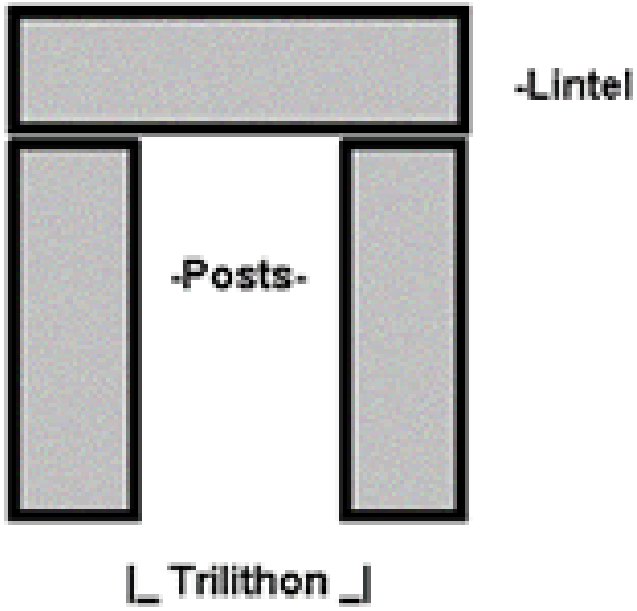

Optional

The Story of Artificial Intelligence

Patrick Henry Winston

1

The Way Forward

- The strong story hypothesis
- The strong perception hypothesis
- The strong social animal hypothesis

2

3

$$\int \frac{x^4}{(1-x^2)^{5/2}}\,dx = \frac{1}{3}\tan^3(\arcsin x) - \tan(\arcsin x) + \arcsin x$$

4

5

An attempt will be made to find how to make machines use language, form abstractions and concepts, solve kinds of problems now reserved for humans, and improve themselves.

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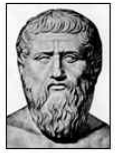

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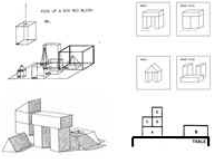
Analogical reasoning
Any-time algorithms
Bayesian techniques
Case-based reasoning
Computational linguistics
Connectionism
Constraint satisfaction
Cross-modal clustering
Cyc
Explanation-based learning
Frames
Fuzzy sets
Genetic algorithms
Image understanding
Information retrieval
Intermediate features
K-lines
Knowledge engineering
Layered learning
Layered Boltzmann
Lazy, Smalltalk, and Lycos
Logic systems
Machine learning
Means-ends
Memory-based control
Model-based systems
Multiple models
Multiple resolution
Neural nets
Open mind
Planning and scheduling
Pattern-directed reasoning
Perfect induction
Propagate-rachitecture
Question answering
Reasoning by analogy
Regularity-based learning
Reinforcement learning
Representation
Rule-based systems
Search
Self-organizing maps
Shrdlu
Speech understanding
Streams and counterstreams
Structure mapping
Subsumption
Symbolic mathematics
Visual and interpretation
Wait-and-see algorithm

13

14



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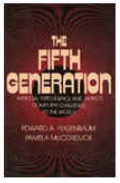
Computation

Method

Implementation

17



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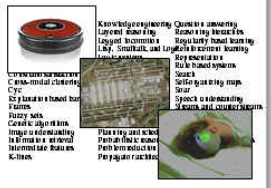


20

21

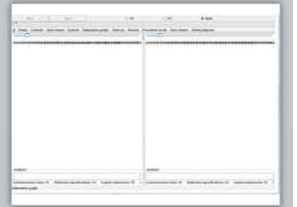
The Strong Story Hypothesis

The mechanisms that enable us humans to tell, understand, and recombine stories separate our intelligence from that of other primates.

22

Fairy and folk tales	Law
Religious parables	Business
Ethnic narratives	Medicine
History	Defense
Literature	Diplomacy
Experience	Engineering
…	…

23



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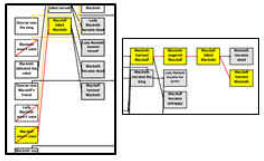

25

The Strong Perception Hypothesis

The mechanisms that enable us humans to direct and hallucinate with our perceptual faculties separate our intelligence from that of other primates.

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The Strong Social-Animal Hypothesis

Our social nature amplifies the value of story telling and perceptual reuse.

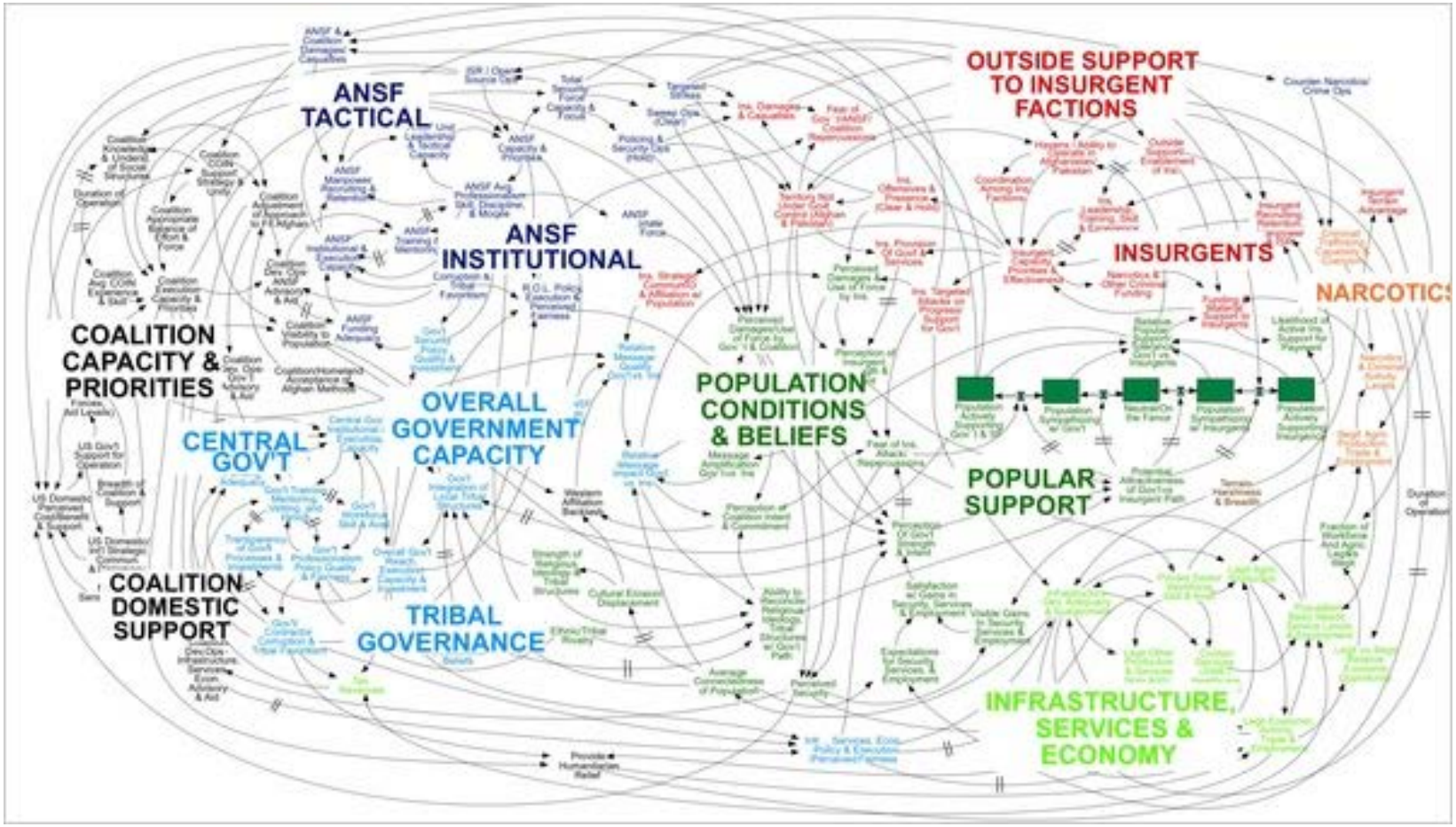
The Way Forward

The strong story hypothesis
The strong perception hypothesis
The strong social animal hypothesis

Contributions to come

- Understanding ourselves
- Understanding each other
- Making ourselves smarter

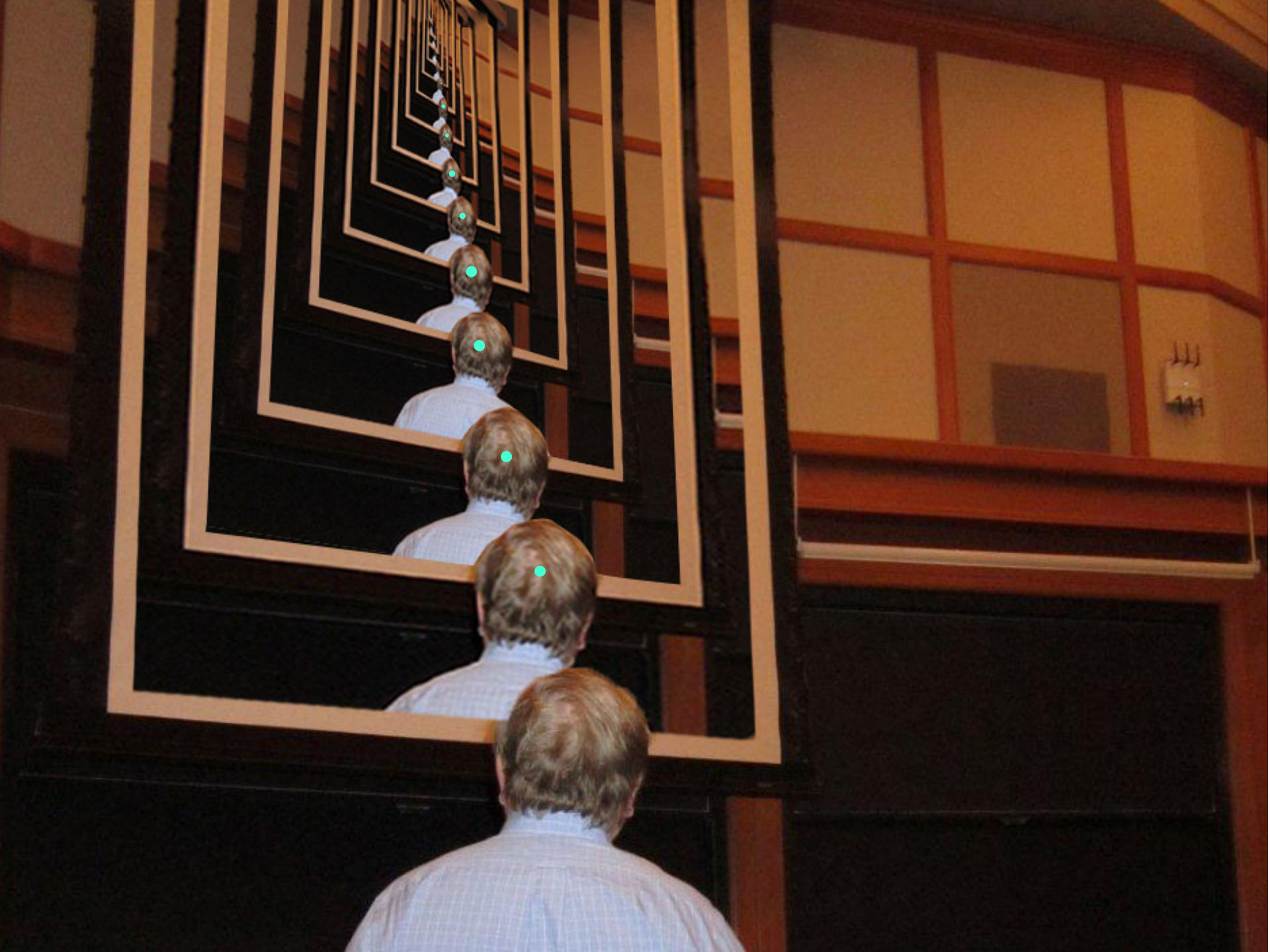
Complex

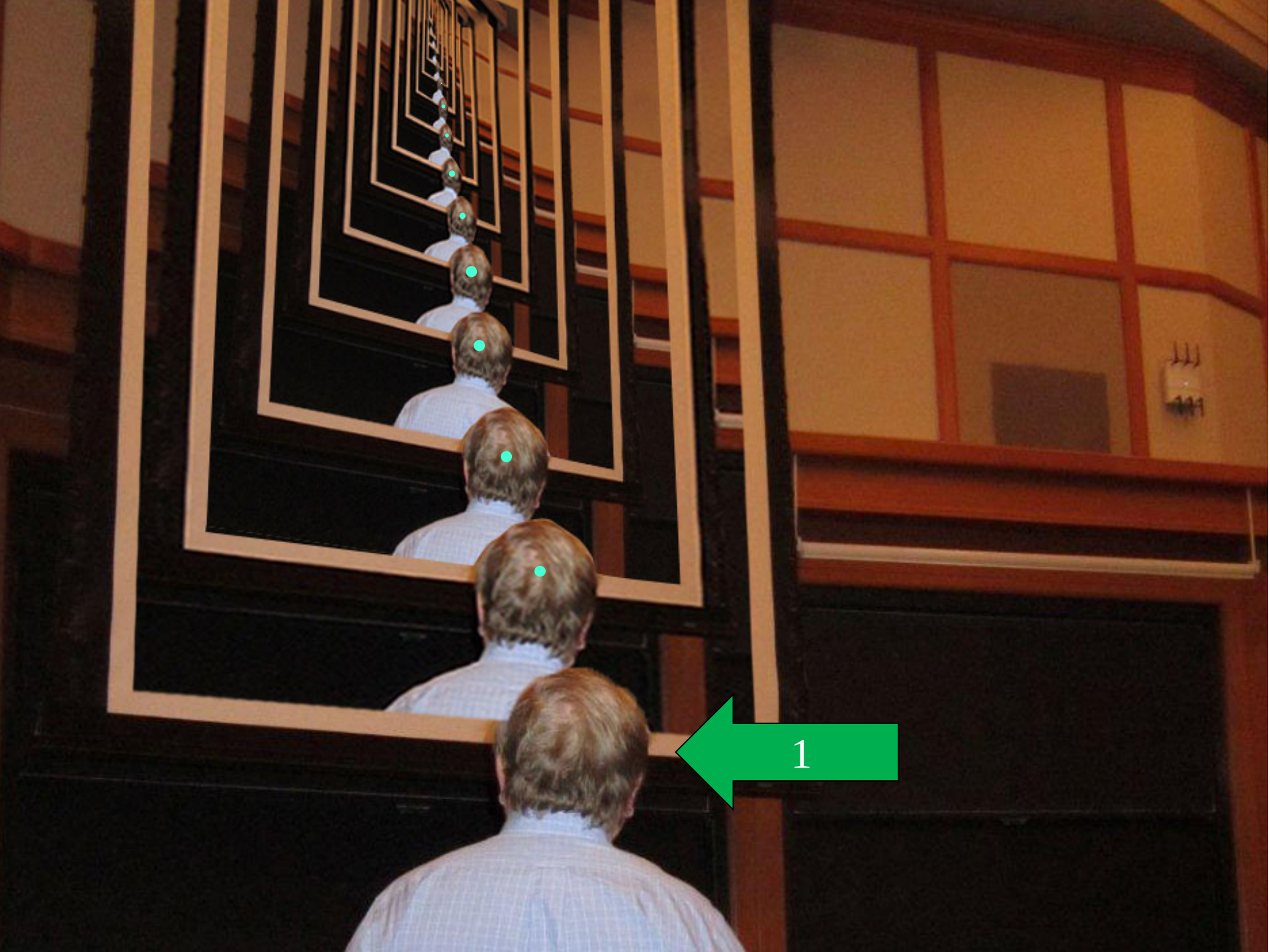

ANSF TACTICAL
ANSF INSTITUTIONAL
OUTSIDE SUPPORT TO INSURGENT FACTIONS
INSURGENTS
NARCOTICS
COALITION CAPACITY & PRIORITIES
OVERALL GOVERNMENT CAPACITY
CENTRAL GOV'T
POPULATION CONDITIONS & BELIEFS
POPULAR SUPPORT
COALITION DOMESTIC SUPPORT
TRIBAL GOVERNANCE
INFRASTRUCTURE, SERVICES & ECONOMY

The too-small font crime

- This is ten point type
- This is fifteen point type
- This is twenty point type
- This is thirty point type
- This is thirty-five point type
- This is forty point type
- This is fifty point type

The laser pointer crime




1

Other crimes

- Hands in pockets; behind back
- Silly hand offs
- Speaker position


Conclusions (1)
Context-driven decision making is of on-the-fly agent-based intelligent service based on integration of ontology & context management and constraint satisfaction technologies
The context-driven knowledge integration approach for operational decision support is originally problem-independent and can be applied to different domains by creation of a new application ontology describing the new problems, and finding and attaching appropriate information & knowledge sources
Implementation of context-driven methodology can significantly facilitate flexibility and response speed of operational decision support systems for network-centric operations
Implementation of multi-agent technology together with semantic-driven interoperability create an opportunity for fast development of scalable DSSs
EXIT
Coca-Cola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3