







A Puzzling Letter Form,

or How Ways-of-Looking and Ways-of-Seeing Differ

e-Science and Ancient Documents project

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> Object, Artefact and Script workshop Edinburgh, 08.10.2009









E-Science and Ancient Documents project

- Targeted documents:
 - Stone
 - Lead
 - Wood

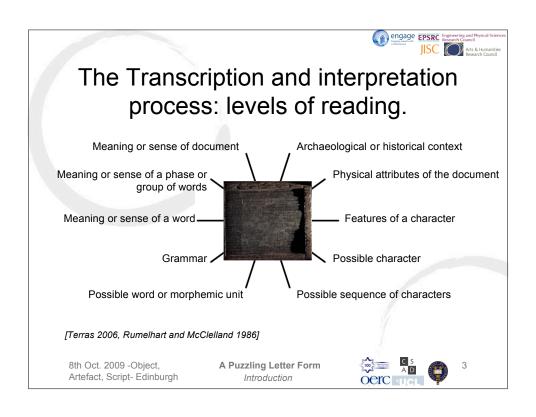


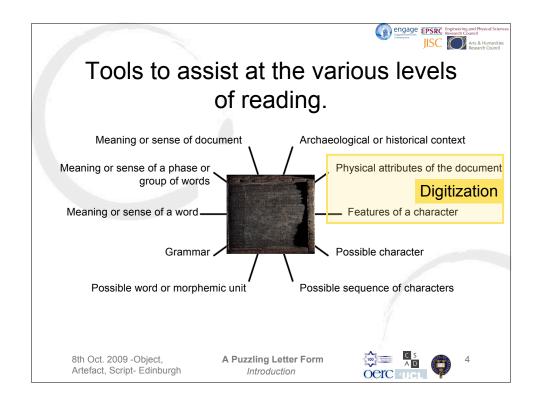
- Aim: develop a web-based Interpretation Support System (ISS) for ancient and damaged documents:
 - Image capture and processing (digitization, feature detection, web-services)
 - Chain of reasoning recording tool to help make explicit the implicit interpretations and knowledge (argumentation theory and epistemology)
 - Access external knowledge bases, e.g. linguistics, palaeographical, archaeological (contextual encoding, web-services)

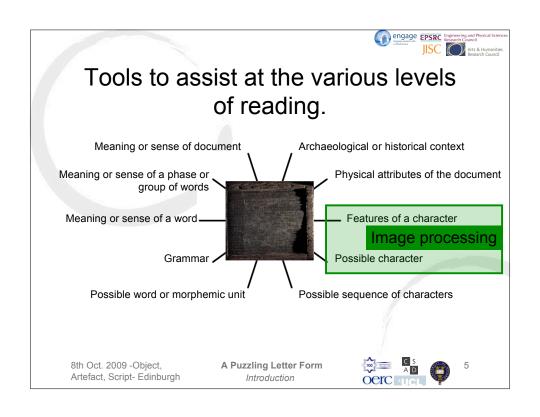
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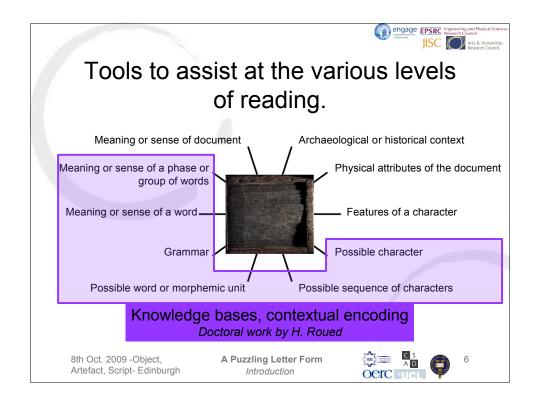




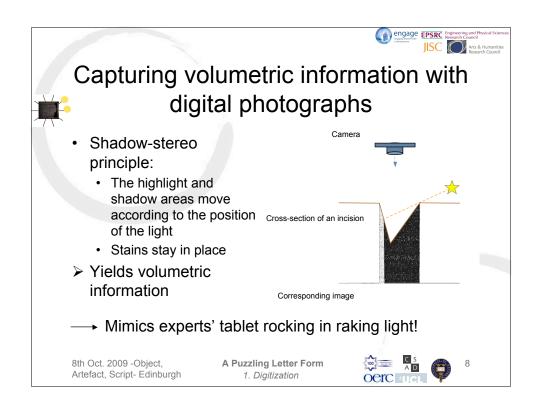


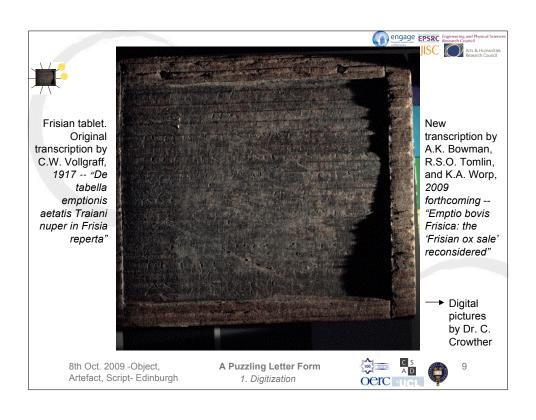




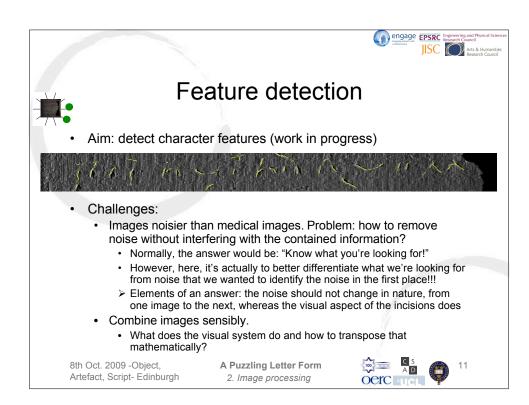


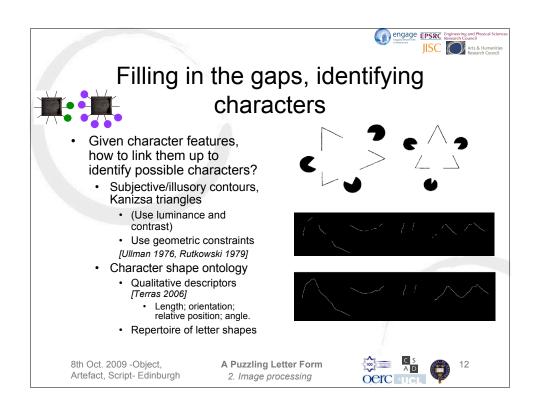


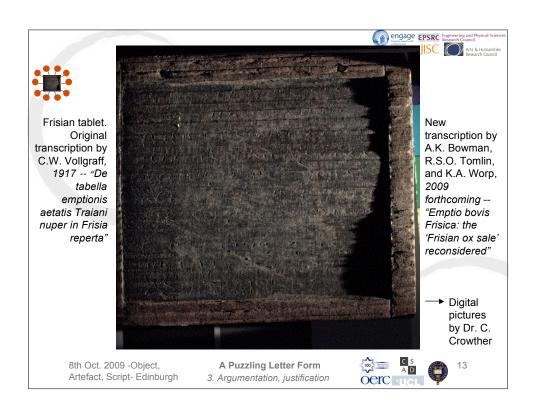


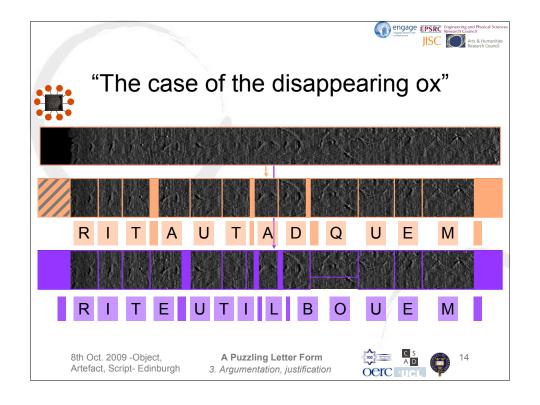


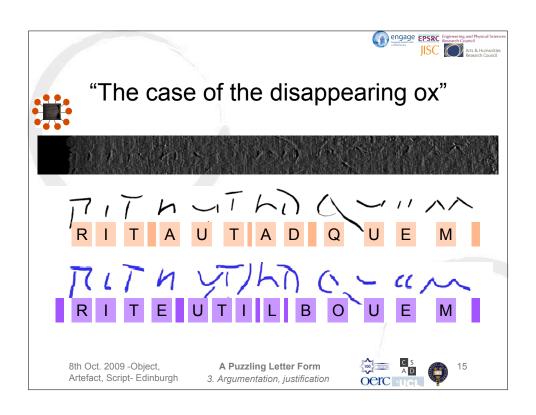


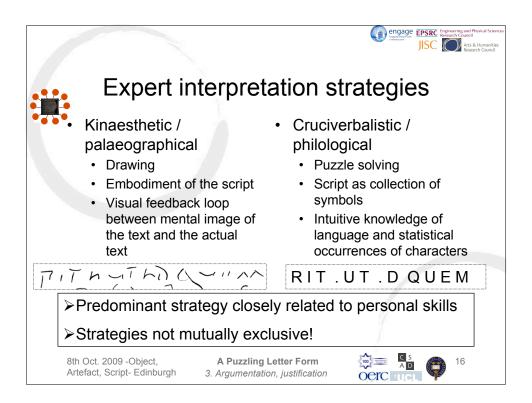


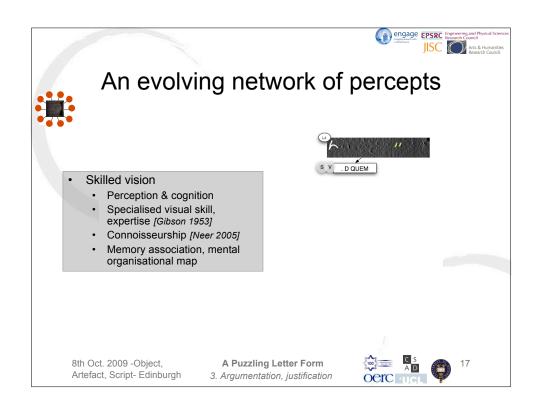


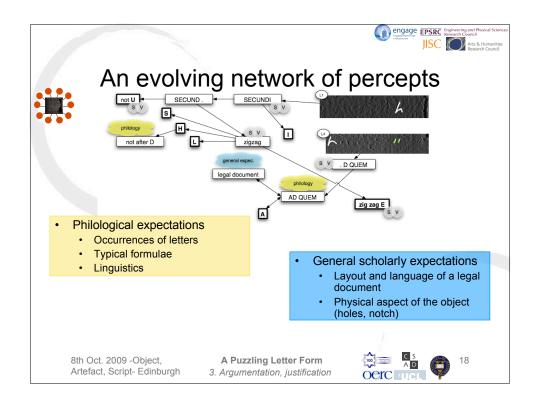


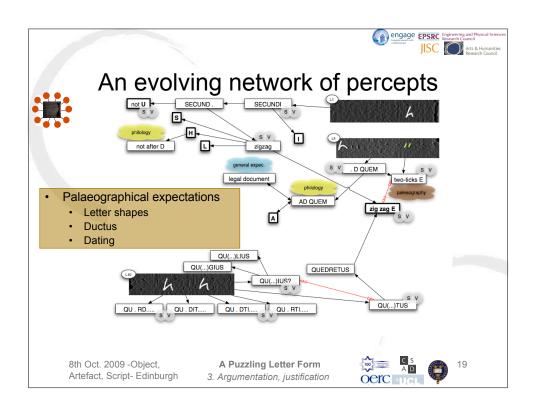


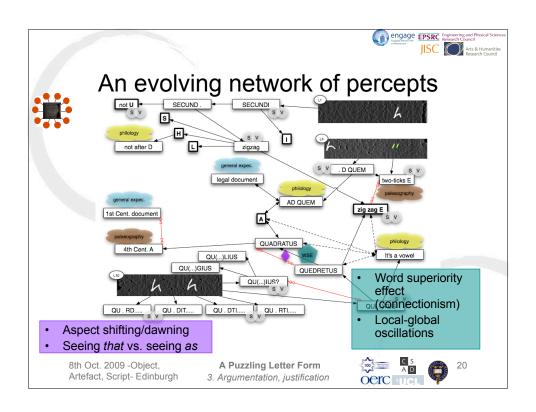


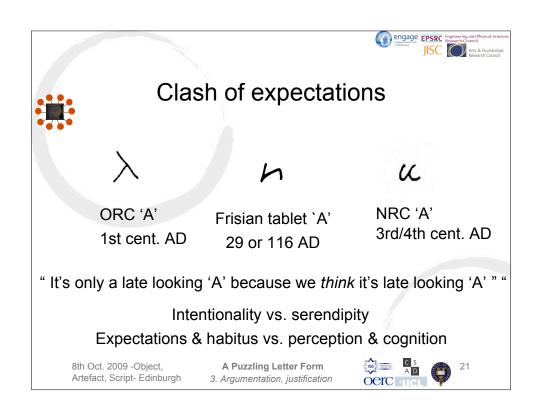


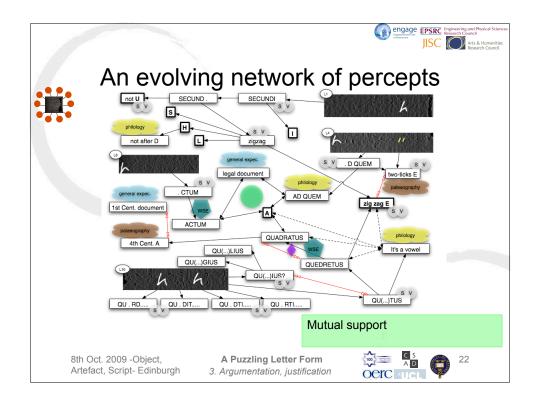














Current work

- Refine the "story of the A' graph by injecting the levels of reading in the network of percepts:
 - · Formalise the behaviours within a layer
 - · Formalise the jumps between the layers
 - Skilled vision
 - · Scholarly expectations
 - · Aspect shifting
 - · Oscillations (word superiority effect)
- How to evaluate the "goodness" of a percept, of an evidence?
 - · Easing the tensions!

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3. Argumentation, justification



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Ways of looking and ways of seeing: what do the experts do?

- Image capture and processing
 - Mimic real-world phenomenon, to ensure capture of evidence
 - How does the visual system discriminate features?
- Making explicit a network of (often implicit) percepts and their (always hidden!) triggers
- Facilitate both kineasthetic and cruciverbalistic approaches

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Conclusion







Final remarks

- In the editions, compare the narratives about the interpretation process vs. the actual (convoluted?) course of development of the interpretation...
 - Shows the need for a recording tool that would assist in producing the edition?
 - Shows the *mutability* of the security of the evidence/percept?
- Experts are good, really good.
 - · To some extent, we will be able to help them record their rationale with an ISS, i.e., keep track of the way they see, but can we help them look better/differently?

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