# Interpretation Support System







EDITION

LINE 1: turm.

LINE 2: hordiar

LINE 3: .x.l.as

LINE 4: exe.

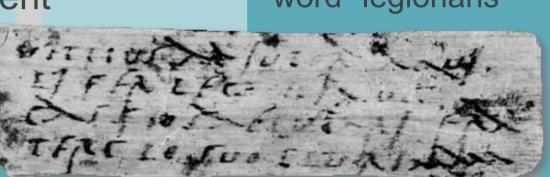
LINE 5: penes[tur]

#### Aims

The Interpretation Support System (ISS) focuses on supporting the reader of ancient documents through the interpretation process by doing the jobs that humans find difficult.

- Remembering complicated reasoning
- Searching huge datasets
- Accessing other expert's knowledge
- Enable co-operation between experts on a single document
- Format and output their interpretation for publication

Vindolanda Tablet 214 using the word "legionaris"



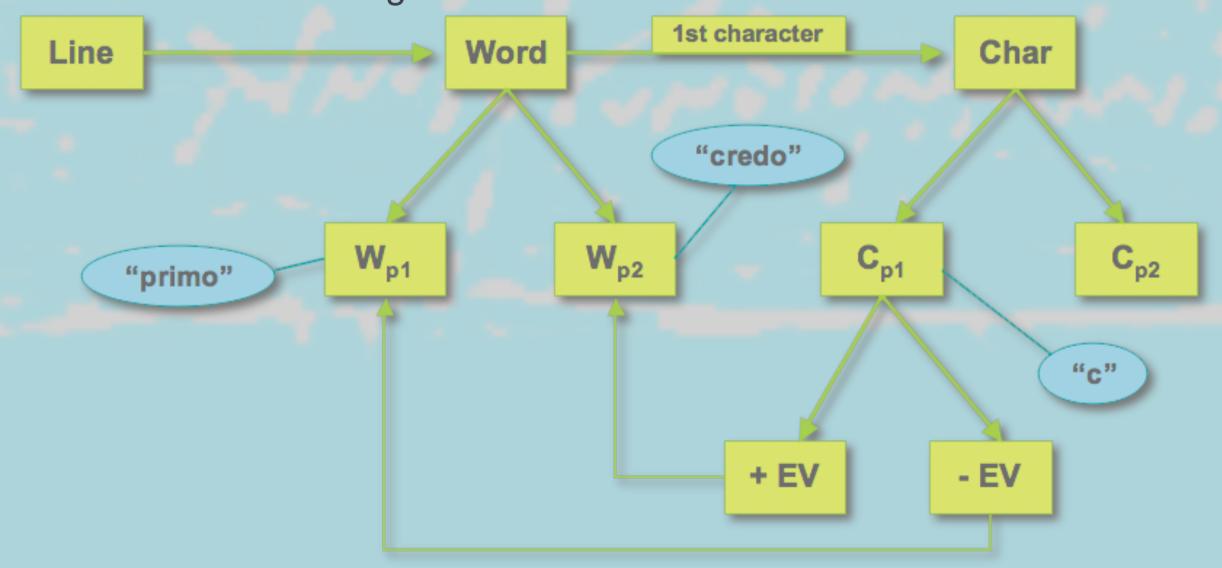
## Network of Percepts

The interpretation process is pictured as a network of minor interpretations, which we call percepts.

- Low level: "these three line fragments are an incised stroke"
- Higher level: "these five letters can make up the word 'legio'"

#### Evidence based

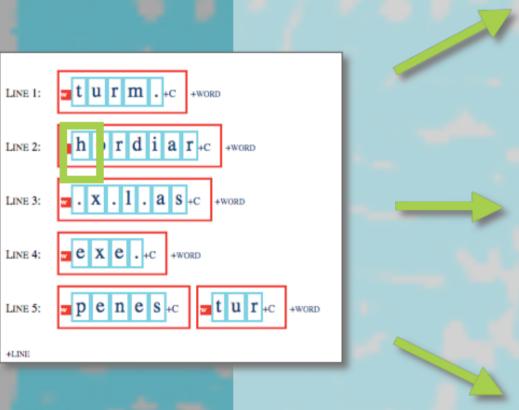
Model of ISS concepts showing how the interpretation of a word can be evidence for and against a character.



## Prototype

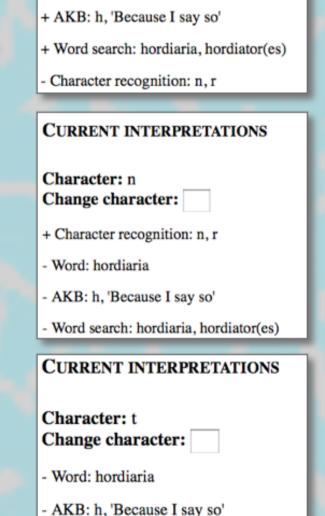
The ISS prototype is using XML to build different views.

At the moment the ongoing interpretation is also stored as XML.



Vindolanda Tablet

159 with annotation



Word search: hordiaria, hordiator(es)

CURRENT INTERPRETATIONS

Change character:

+ Word: hordiaria

The evidence for and against the character changes as the character changes.

This allows the expert to reason under uncertainty because it makes the uncertainty clear.

However, it is always the experts choice, regardless of the evidence for and against a character.

### Future work

- Incorporate an annotation tool to allow defining of the characters, words and lines directly via the image of the document.
- Find a suitable storage facility for the ongoing interpretations.
- Build the ISS as a portable web application.