



CENTER FOR TEXTUAL STUDIES AND DIGITAL HUMANITIES

DIGH 400 - Introduction to Digital Humanities Research

Fall Semester 2013

Week 6

Today's Class

- Digitisation (continued)
- Text Encoding

Discussion Analysis

[Perseus Digital Library](#)

The act of digitisation

Digitising Text - Options for making your own digital text

- import, automate, or type your own
- scan or photograph analogue to digital
- minimum 300dpi scan or better 600dpi
- book scanners and cradles are also available
- OCR texts
- OCR limitations include poor performance for
 - non-Latin characters
 - small print
 - certain fonts
 - complex page layouts or tables
 - mathematical or chemical symbols
 - most texts pre-19th century

The act of digitisation

Digital Images

- again we can use scanners and cameras
- more specialised material with cradle and book scanners
- consider fidelity to the original and long term preservation
- quality of digital result dependent upon
 - quality of original
 - digitising method employed
 - sample rate of digital to analogue
- minimum 300 DPI, preferably 600 DPI
- uncompressed format, such as TIFF
- optimise to JPEG for online publication

The act of digitisation

Digital Images - metadata

- metadata added to images
- in particular important when the files are not text searchable
- standards such as Dublin Core or METS
- technical information about the file such as
 - resolution
 - compression (if applicable)
 - scanning process
 - copyright and access rights
 - authorship of the image
 - and much more...

god knyght So **Er Gryffet** was the firste that sette oute And to hym com
 a knyght his name was **Er Ladynas** And they com so egerly to godir that
 all men had wondir and they so sore fought that **Er Ladynas** felle on his
 peire and both horse and man felle to the erthe And both the knyghts dyed
 And the englysh knyght lay so longe that all men wente they had bene dede
Wahan Lucas the butler saw **Er Gryffet** by so longe he horsed hym a
 gayne a none and they too ded many mervelous dedis of armys And many
 bachelers Also **Er Lay** com oute of a bushemente And **Er Gryffet** saw hym and
 they dy. smote othir by dolne But **Er Lay** did that day many merday
 long dedis of armys that there was none that did so well as he that day
 Then there com **Ladynas** and **Gastrian** y. knyght of fraunce and did pas
 syngre well that all men prayd thend Then com in **Er Plandas** a god
 knyght that mette both **Er Lay** and smote hym dolne horse and man where
 fore **Er Gryffet** was wroth and mette both **Er Plandas** so harde that horse
 and man felle to the erthe But **Wahan** the knyght wote that **Er Lay**
 had a felle they were wroth oute of meschise And there was all ech of them
 bare dolne a knyght **Wahan** knyght **Arthur** and the y. knyght saw hem be
 gyne were wroth on both ptes they leped on smale hatenyes And sette
 cry that all men sholde deyte into there red gyngre and so they wente home
 and engharmed them and so to dornsonge and song And after song y. m.
 knyght wente in to a gardyne and castt the pryte into **Er Lay** and into **Er**
Lucas the butler And into **Er Gryffet** And than they wente into com
 cepte and wote hem **Wenhaus** brother into knyght **Ban** & **Bois** a wyse
 clerk and thidn wente **Wolghune** **Wastrian** & **Ayrlion** And after they had
 in her conceyte they wente into bedde And on the morne they harde masse
 and to dner and so to there conceyte and made many argument What
 were best to do At the laste they were concluded that **W.** sholde go to a
 tobyn of knyght **Ban** that was a ryngre into his men And knyght **Bois**
Bracian & **plandas** sholde go a gayne and kepe y castels and there cotreys
 And as for knyght **Ban** of **Wendysle** and knyght **Bois** of **Gaulle** had or
 dained them all thynge and so passed the see and com to **Wendysle** And
Wahan the people sawe knyght **Ban** ryngre and **Bracian** & **plandas** y.
 were glad and asked how there knyght fared and made grete joy of y. wyllys

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The act of digitisation

Audio and Film

- different set of issues and solutions
 - often involves more specialised technical development
- formats, hardware and playback changes over time
- storage of video is another concern
- preparation for online use
- detailed metadata required for searching and cataloguing

The act of digitisation

Audio

- three elements in the creation of an audio file
 - audio stream, container, and codec
- audio can be uncompressed or compressed as with images
- quality loss from CD to MP3
- common archival standards for audio
 - 24 bit audio at 48kHz

The act of digitisation

Video

- consists of the raw video signal (video stream) and the file format
- video file format also contains encoded audio stream
- audio stream uses its own codec
- developing and changing standards
- interlaced or progressive scan

Good summary available at

[Make It Digital](#)

Text Encoding

Overview

- practical value and importance to DH
- often considered within the context of critical editions, indices, concordances...
- can also be considered with the broader context of 'new media'...

Text Encoding

Markup

- distinct from the text itself, serves to identify logical or physical features or to help with later processing
- unfamiliar expressions or codes
- considered within context of computer based typesetting and text processing
- 1960s to 80s typesetting and text processing offers foundation

Text Encoding

Markup - descriptive in nature

- encoding was initially specific to an application using
 - codes for individual characters of the text
 - & codes for formatting commands
- descriptive markup became seen as the fundamentally correct approach
- descriptive said to identify and describe the parts of a document
- procedural was a command or instruction invoking formatting
- logical v graphical

Text Encoding

Descriptive Markup - Advantages Part 1

- simplified composition
- edit with structure-oriented editors
- generated alternative document views are supported

Text Encoding

Descriptive Markup - Advantages Part 2

- generic formatting can be specified and easily modified
- textual apparatus can be automated
- enhanced output device support
- portable and interoperable

Text Encoding

Descriptive Markup - Advantages Part 3

- support for information retrieval
- support for analytical procedures