

Understanding DATA

- Goals:
 - understand the difference between data and text by thinking about computability
 - learn some basic data types

Why data?

Validation

“currency” 19.237

19.00

Computation

Results 1 - 25 of 49,303 for civil war,

Key

- Publications about Emily Dickinson
- Publications by Emily Dickinson

Refine

Country:

- Other (12,277)

Publication Date:

- ▶ In the last 3 years (1,170)
- ▶ In the last 10 years (11,282)
- ▶ All years (49,303) (49,303)

Author/Creator:

- ▶ England and Wales, Parliament (1,020)
- ▶ England and Wales, Shipping (1825-1949) Charles (1,020)
- ▶ Charles V, King of England, 1600-1649 (500)
- ▶ England and Wales, Parliament, House of Commons (240)
- 43,892 more...

Language:

- Book (15,273)
- Journal/Gazette (1,000)
- Andrews, Manuscript (500)
- Video/Film (514)
- 8 more...

Language:

- English (49,303)
- French (1,000)
- Chinese (1,000)
- 85 more...

Data exchange

March 23, 2012 2012-03-23

Tolkien, J. R. R. (John Ronald Reuel), 1892-1973

Common data types

text - "text"

defined data types:
 date (& time)
 currency
 numbers (integers, ...)

controlled lists: finite values to use
 languages (ISO...)
 countries (ISO...)

Text, or data?

<ul style="list-style-type: none"> ■ January 7, 1963 <hr style="border: 1px solid red; margin: 5px 0;"/> ■ 23 cm. high <hr style="border: 1px solid red; margin: 5px 0;"/> ■ \$29.99 <hr style="border: 1px solid red; margin: 5px 0;"/> 	<p>Format: yyyy-mm-dd</p> <p>1963-01-07</p> <hr style="border: 1px solid red; margin: 5px 0;"/> <p>h - w - d unit</p> <p>h= 23 unit=cm</p> <hr style="border: 1px solid red; margin: 5px 0;"/> <p>9999.99 currency</p> <p>29.99 USD</p> <hr style="border: 1px solid red; margin: 5px 0;"/>
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The Physical Object


What sort of book is it? Paperback, Hardcover, etc.

How many pages?

Pagination? Note the highest number in each pagination pattern.
 x, 211 p. :
 For example: xii, 346p.

How much does the book weigh?
 grams kilos ounces pounds

Dimensions



Height:

Width: centimeters inches

Depth:

Exercise 2: Data

Take each of the data elements that you created in the first exercise and define the element as data using one of the data types presented in the lecture.

- text
- numeric
- currency
- identifier
- controlled value