Basic tools for digital classics

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Command line

Overview: windows command

- run→ cmd
- cd
  - cd Desktop\test
- dir
- del, copy, move, rename
- mkdir, rmdir
- help

Overview: OSX Terminal / Unix

- Launchpad → Terminal
- cd
  - cd Desktop/test
- ls
- rm, cp, mv, ~~rename~~
- mkdir, rmdir
- ?, man

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Git

Overview

- **Git clone** <url> [location]

  > git clone https://github.com/SunoikisisDC/SunoikisisDC-2019-2020.git new_folder

- Git **pull**
- Git **add** / git rm
  - (or commit -a)
- Git **commit**
  - -m "summarise what you've done"
- Git **push**

Project management

- Work in root
  - Commit but don't push until working
- Make a **branch**
  - Merge when complete
- **Fork** to a new repository
  - Possible pull request when complete
  - Some forks never feed back
- In all cases…
  - may need to resolve conflict

https://github.com/

Regular expressions

What are regular expressions?

- Describe a pattern to find text or positions within a string of text
- Used to search, replace, validate
- Used in most programming languages (JavaScript, Java, C #, C / C++, Python, Perl, Ruby, R, etc.) with minor variations

Literal characters and Special characters

ABCDE abcde 12345

\ ^ $. | ? * + ( ) [ ] { }

. dot matches anything (except a new line)

Escapes

\w [A-Za-z0-9_]

\d [0-9]

\s (\t, \r, \n, \f)

\uFFFF (or \x{FFFF}

\D, \W, \S

\b

Quantifiers

?

*

+

{min, max} {exact}

(group)+

Groups and ranges

[abc] [0-9] [A-Z]

[^a-e]

(ab)

(a|b)

Anchors and backreferences

^abc$

(a|b|c)\1

Examples - Hecyra

- Find and replace u with v at the start of a word or between vowels:
  - (\s|[aeiou])u([aeiou])
  - $1v$2
- Find all the names in the text
  - \b[A-Z][a-z]+
- Find all forms of credo
  - \bcred[a-z]+
- Find all sg forms of quis in a question
  - ([\w<>',()]+\s)*\b(qu(i(d|s)|em|o)|cui(us)?)(\s[\w<>',()]+)*\?

Examples - Inscriptions

- Find and tag all reference numbers
  - (EDR\d+)
  - <ref>$1</ref>
- Find all the abbreviated words
  - [\[\w+\]]*[\w]+(\([\w]+\)[\w]*)+

All texts and links can be found at the SunoikisisDC session page: github.com/SunoikisisDC/SunoikisisDC-2019-2020/wiki/DC-Session-1-Basic-Tools