

Reproducible Research

Data and Code or didn't happen

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Software Development Level Up! 2

citius.usc.es

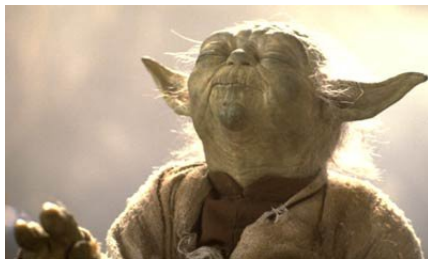
Traditional way to publish computer science

Implies

- Linguistic description of the proposed solution
- Poor pseudocode
- Lack of access to source code
- Lack of access to all the data used
- Show only the final results

Credibility because yes

And we believe in the results because...



the light strong in the authors is.

Why so mad?

NO SOURCE CODE

NO DATA

NO REPRODUCIBILITY

NO SCIENCE

NO PARTY

This wasn't the science you're looking for

Why so afraid about reproducibility?

Why hide the DATA and CODE in the shadows?

EMBRACE THE DARK SIDE OF COMPUTER SCIENCE!



New tools for reproducible research

Reproducible documents: results can be automatically regenerated.

IPython Notebook

- Web-based interactive computational environment.
- Combine code execution, text, mathematics and plots.

R Markdown

- Easy creation of dynamic documents, presentations, and reports from R.
- Fully integrated within RStudio.

How to compile the reproducible documents

Pandoc

- Tool for converting files in multiple formats.
- Markdown to HTML, \LaTeX , EPUB...

GitBook

- Modern and simple solution to digital writing and publishing.
- Markdown format, so that is fully integrated with reproducible documents.

Lets show some demos

