Ciencia reproducible

¿Qué es? ¿Cómo y por qué?

Reproducible (reproducibility):

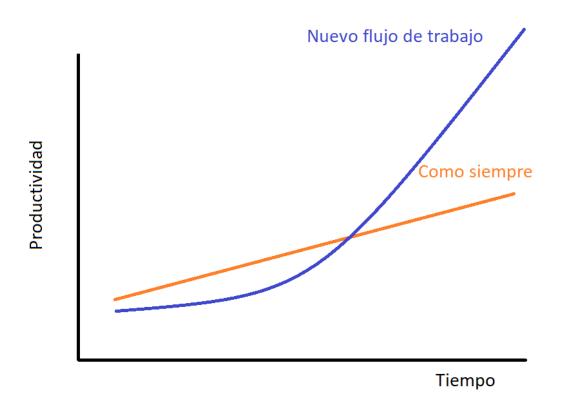
"Un estudio es reproducible si el texto del artículo viene acompañado de código... ...que permite recrear exactamente a partir de los datos originales todos los resultados y figuras incluidos en el artículo."

vs Repetible (replicability):

"...replicar el mismo estudio (con nuevos datos) a partir de la información proporcionada en el artículo."

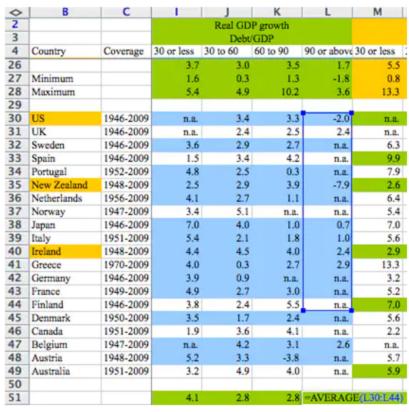
Rodríguez-Sánchez, F., Pérez-Luque, A.J. Bartomeus, I., Varela, S. 2016. Ciencia reproducible: qué, por qué, cómo. Ecosistemas 25(2): 83-92. Doi.: 10.7818/ECOS.2016.25-2.11

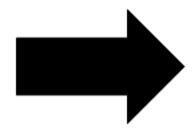
Necesitamos cambiar el flujo de trabajo



ALMACENAMIENTO







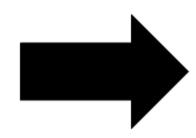


| Abundance | Biomass | Family | Genus | Species | Sample | Descr Plot | Latitude | Longitude | DepthElevati | Day | Month | Year | StudyID |
|-----------|---------|--------------|--------------|---------------|---------|------------|----------|-----------|--------------|-----|-------|------|---------|
| 4.07 | NA | Aegithalidae | Aegithalos | caudatus | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 1.84 | NA | Certhiidae | Certhia | brachydactyl: | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 0.52 | NA | Corvidae | Garrulus | glandarius | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 0.39 | NA | Emberizidae | Emberiza | cia | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 0.26 | NA | Fringillidae | Chloris | chloris | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 1.57 | NA | Fringillidae | Fringilla | coelebs | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 0.26 | NA | Fringillidae | Pyrrhula | pyrrhula | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 8.66 | NA | Muscicapidae | Erithacus | rubecula | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 8.14 | NA | Paridae | Cyanistes | caeruleus | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 2.62 | NA | Paridae | Lophophane: | cristatus | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 15 | 78 NA |
| 0.92 | NA | Paridae | Parus | major | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 0.66 | NA | Paridae | Periparus | ater | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 0.66 | NA | Phylloscopid | Phylloscopus | collybita | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 0.13 | NA | Picidae | Dendrocopos | major | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 0.26 | NA | Prunellidae | Prunella | modularis | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 3.28 | NA | Regulidae | Regulus | ignicapilla | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 0.13 | NA | Sittidae | Sitta | europaea | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 3.28 | NA | Sylviidae | Sylvia | atricapilla | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 0.92 | NA | Sylviidae | Sylvia | melanocepha | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 0.13 | NA | Sylviidae | Sylvia | undata | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 0.26 | NA | Troglodytida | Troglodytes | troglodytes | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| 1.97 | NA | Turdidae | Turdus | merula | Cazorla | bird: NA | 37.94 | -2.87 | NA | NA | NA | 19 | 78 NA |
| A 27 | NA | Annithalidan | Annithalae | conditue | Carada | blede NA | 27 04 | 2 02 | MA | MA | MA | 10 | 79 NA |

ANÁLISIS

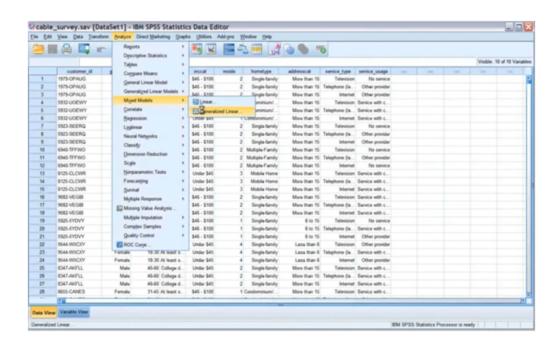








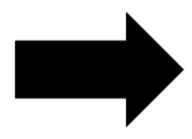




FIGURAS

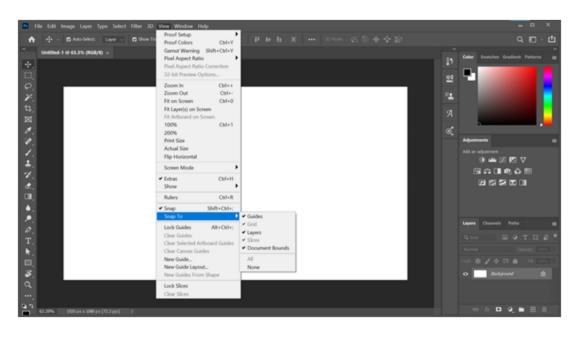


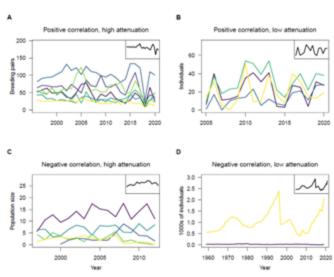












REDACCIÓN





