Administrative	
Project Name	Open Science WS2022: Reproduction of a Study
Project Description	The purpose of this work is to attempt to reproduce a study by re-using a published dataset, for the final project of the TH Köln (https://www.th-koeln.de/) module "Open Science" as part of the Digital Sciences Master's Degree. This module is taught by Prof. Dr. Mirjam Blümm (mirjam.bluemm@th-koeln.de) and Prof. Dr. Claudia Frick (claudia.frick@th-koeln.de).
Researcher Names	Natasha Randall and Berrak Küçük.
Researcher Contacts	natasha_jacqueline.randall@smail.th-koeln.de berrak.kuecuek@smail.th-koeln.de
Responsibilities	Both of the researchers are responsible for implementing the DMP, maintaining the datasets, and all stages in the research lifecycle.
Funding	No funding or competing interests.
Date of Last Update	02/01/2023.
Related policies	 The licence of the original dataset is: "CC0 1.0 Universal (CC0 1.0) Public Domain Dedication". Therefore we may modify and redistribute the data freely. (https://creativecommons.org/publicdomain/zero/1.0/) TH Köln "supports the Open Access initiative" and recommends researchers "take principles of Open Science into account", however provides no hard requirements. (https://www.th-koeln.de/mam/downloads/deutsch/hochschule/open_science_policy.pdf) We aim to follow the Open Research Europe Data Guidelines (https://open-research-europe.ec.europa.eu/for-authors/data-guidelines) including making data FAIR, and following the standards for spreadsheet data and software distribution.
Data	
Provenance	The dataset was collected for the study "Women's preference for masculine traits is disrupted by images of male-on-female aggression" (https://doi.org/10.1371/journal.pone.0110497). It is available on DRYAD (https://datadryad.org/stash/dataset/doi:10.5061/dryad.9bg43).
Legality	 The provided dataset is originally licenced under CC0 1.0 Universal (CC0 1.0) Public Domain Dedication. There is no licence given for the provided images, therefore they will not be re-released. Our modified dataset is released under Creative Commons Attribution 4.0 International (CC BY 4.0). Our licence choices are made in order to promote open practices and encourage re-use of the data.
Format	The dataset is in the form of a tabular spreadsheet. The original data is stored as an .xlsx file. Our modified datasets are stored as .csv files, due to ease of interoperability and its standard as a format. The size of the data is very small: the entire project is less than 50MB. The supplied images are of format .BMP.
Ethics	As there is no available licence or provided guidelines for the sharing of the participants' photos, we choose to view these data as sensitive, personal data. Following the standard "as open as possible, as closed as necessary", the photos will therefore not be released.

 The data is stored both locally on the researchers' personal and available online on GitHub. Although GitHub has some problems, it was chosen due to accessibility: the code in the Jupyter notebooks can be expended without the reader needing to install any software, and the 		
Readme file and documentation aids in understandability. (provides automatic version control. The personal data (photos of participants) are secured in a folder on the researchers' personal machines, and not mac on Github.	olored online associated GitHub also n encrypted	
Preservation We are both responsible for preserving the data. In order to ensure preservation, the data is stored in multiple locations, both locally a cloud. Regular backups are also made of the data.		
Readme file to the DOI identifiers of both the original dataset and so GitHub repository is tagged with relevant labels to encourage find a Accessible: The Jupyter notebooks and datasets can be accessed directly on GitHub, improving accessibility. For local use, the datase files can be downloaded, and do not require any proprietary software Interoperable: The format of the files use common and open standards. The language of the software is Python and R, both common languages for scientific computing. Reusable: A detailed data documentation and metadata description.	Reusable: A detailed data documentation and metadata description are provided, describing both the directory structure and contents of the dataset, to	
Metadata		
Project Directory Structure		
"Original Files" The original study files as provided by the researchers.	ne original	
"Reproduction Project" Our re-structuring and modifying of the files, as well as additional datasets and (code).	•	
The "Reproduction Project" folder contains:		
4 folders corresponding to the 2 "main studies" and 2 e.g. "main_study_face_data.cs" re-used and modified datasets, described in the paper "main_study_face_data_modified datasets, "main_study_face_data	v" and any e.g.	
The folder "Reproduction Project Code" Containing the code and Jupyte notebooks used to analyse the numbered in order. The notebo containing an incorrect analysis "WRONG DATA") are included transparency.	data, oks s (labelled	
The xlsx file: "Downloaded Data (All Studies)". The form of the original dataset for reference.	, included	
The pdf file "Published Article". The original journal article asso the dataset, included for referen		
The docx file "Description of Supplementary Studies". An explanation of the supplementary studies as provided by the original researchers, included for reference.	nal	

The purpose of the original data collection, structure of the associated study. **Data Documentation** and meaning of the attributes in the dataset is described in the journal article: (https://doi.org/10.1371/journal.pone.0110497). In our modified dataset, ("main_study_face_data_cleaned.csv") the contents of each of the attributes are: **Attribute Name Attribute Meaning Attribute Contents** participant_id The unique ID identifier String of 331 possible for each of the values, e.g. "13" or participants in the study. "211b". prime condition A number representing Integer in range: 1 to the priming condition group each participant was assigned to. The name (mapped from prime condition names String of possible the prime condition values: "neutral", number) of the relevant "male/male", priming condition group. "male/group", "male/female", "pathogen" trial number Each row in the dataset Integer in range: 1 to corresponds to each trial 40 for each particular participant, where they choose whether they prefer an image of a masculinised or feminised face. image The image shown to the String of form participant, containing a Slide{}.bmp, where {} masculinised and is the number of the feminised face. slide, e.g. Slide13.bmp pre_post_prime An indicator of whether Integers: 0 or 1 this particular trial occurs before (0) or after (1) the participant has been shown their respective

(0).

chose_masc

priming images. All trials ≥ 20 are post prime (1), the remainder are pre-prime

An indicator of whether on this particular trial the participant chose the masculinised face (1) or feminised face (0). Integers: 0 or 1

Related Software	
Research Software	In order to encourage re-use and transparency, all of the code relating to the modification and analysis of the dataset is also available. The code is stored in Jupyter notebooks alongside full documentation and comments. The results can therefore be viewed and accessed even without needing to run the code.
Software Requirements	In order to run the code, a Python and R distribution are required. The Jupyter Notebooks can be viewed on Github with no installation necessary.
Software Licence	Our research software is released under the MIT licence. Our licence choices are made in order to promote open practices and encourage re-use of the code.