How do experiences of violence affect women's preferences for facial masculinity according to resource availability? An exploratory study using eye-tracking

Code and analyses

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Description

This document contains all code, and step by step explanations for all analyses, figures and tables (including supplementary figures and tables) for:

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Data available from the Open Science Framework (OSF): https://doi.org/10.XXXXX/OSF.IO/XXXXXX. All analyses were planned by Milena Vásquez-Amézquita and Juan David Leongómez. This document and its underlying code were created in R Markdown by Juan David Leongómez using LATEX.

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1 Preliminaries

1.1 Load packages

This file was created using knitr (Xie, 2014), mostly using tidyverse (Wickham et al., 2019) syntax. As such, data wrangling was mainly done using packages such as dplyr (Wickham et al., 2023), and most figures were created or modified using ggplot2 (Wickham, 2016). Tables were created using knitr::kable and kableExtra (Zhu, 2020).

Linear mixed models were fitted using lmerTest (Kuznetsova et al., 2017), assumptions were performed using performance (Lüdecke et al., 2021), contrasts and interactions were explored using emmeans (Lenth, 2024).

Used packages also include osfr (Wolen et al., 2020) to download and open data files directly from the Open Science Framework (OSF), using the osf_retrieve_file and osf_download functions.

All packages used in this file can be directly installed from the Comprehensive R Archive Network (CRAN). For a complete list of packages used to create this file, and their versions, see section 3, at the end of the document.

```
library(car)
library(MASS)
library(ggstats)
library(tidyverse)
library(ggpubr)
library(readxl)
library(lmerTest)
library(emmeans)
library(knitr)
library(kableExtra)
library(performance)
library(GGally)
library(scales)
library(factoextra)
library(FactoMineR)
library(gtools)
library(bbmle)
library(effectsize)
```

1.2 Custom functions

1.2.1 pval.lev

This function takes p-values and formats them in LATEX, highlighting significant results in bold.

1.2.2 corr.stars

This function creates a correlation matrix, and displays significance (function corr.stars modified from http://myowelt.blogspot.com/2008/04/beautiful-correlation-tables-in-r.html).

```
corr.stars <- function(x) {
    # Load the 'Hmisc' package, which is required for the 'rcorr' function.
    require(Hmisc)
    # Convert the input 'x' to a matrix in case it is not already.
    x <- as.matrix(x)
    # Compute the correlation matrix (R) and p-values (p) using the 'rcorr' function.
    R <- rcorr(x)$r # Correlation matrix
    p <- rcorr(x)$P # p-value matrix</pre>
```

```
mystars <- ifelse(p < .001,</pre>
  paste0("\\textbf{", round(R, 2), "***}"),
  ifelse(p < .01,
    paste0("\\textbf{", round(R, 2), "**}"),
    ifelse(p < .05,
      paste0("\\textbf{", round(R, 2), "*}"),
      ifelse(p < .10,
         paste0(round(R, 2), "$^{\\dagger}$"),
         format(round(R, 2), nsmall = 2)
    )
Rnew <- matrix(mystars,</pre>
  ncol = ncol(x)
) # Ensure the new matrix has the same number of columns as 'x'
diag(Rnew) <- paste(diag(R), " ",</pre>
  sep = ""
rownames(Rnew) <- colnames(x)
colnames(Rnew) <- paste(colnames(x), "", sep = "")</pre>
Rnew <- as.matrix(Rnew)</pre>
Rnew[upper.tri(Rnew, diag = TRUE)] <- ""</pre>
Rnew <- as.data.frame(Rnew)</pre>
Rnew <- cbind(Rnew[1:length(Rnew) - 1])</pre>
return(Rnew)
```

1.3 Independent stimuli evaluation

The sex typicality of all stimuli was manipulated to either enhance or reduce their sex-typical characteristics. Since all the stimuli were male faces, this involved masculinizing them to increase their typical sex characteristics and feminizing them to reduce those characteristics. Masculinized and feminized versions were independently rated for masculinity and estimated age by a panel of raters (not participants).

```
# Load the 'Evaluacion Manipulación Rostros.xlsx' Excel file into a data frame ext_val <- read_excel("Data/Evaluacion Manipulación Rostros.xlsx")
```

1.3.1 Masculinity ratings

First, masculinity rating given to the masculinized and feminized versions of each stimuli were compared.

```
# Select relevant columns and reshape the data into long format
masc_dat <- ext_val |>
    select(
    ResponseId,
    contains("M", ignore.case = FALSE), # Select columns that contain "M" (masculinity)
    -Menstruacion
```

```
) |> # Exclude the 'Menstruacion' (menstruation) column
 pivot longer(
   cols = contains("M", ignore.case = FALSE), # Reshape to long format
   names_to = "Stimulus", # Column with stimuli names
   values_to = "Masculinity"
 # Add a column indicating sexual dimorphism based on stimulus name
 mutate(Sexual_dimorphism = ifelse(grepl("f_1", Stimulus), "Feminine", "Masculine")) |>
 mutate(Stimulus = str_sub(Stimulus, end = 3))
t_masc <- masc_dat |>
 group_by(Stimulus) |>
 summarise(
   t = round(t.test(Masculinity ~ Sexual_dimorphism)$statistic, 2), # Compute t values
   p = pval.lev(t.test(Masculinity ~ Sexual_dimorphism)$p.value)
 ungroup()
t_masc[1:10, ] |>
 cbind(t_masc[11:20, ]) |>
 cbind(t_masc[21:30, ]) |>
 kable(
   booktabs = TRUE, # Use 'booktabs' style for better-looking tables in LaTeX
   digits = 2, # Round numerical values to 2 decimal places
   align = "c", # Center align all columns
   linesep = "", # No lines between rows
   caption = "Difference in independent masculinity ratings given to each stimulus,
              according to its sexual dimorphism manipulation (feminized - masculinized)",
   escape = FALSE, # Allow LaTeX commands in the table (e.g., italic or bold)
   col.names = rep(c("Stimulus", "\\textit{t}\", "\\textit{p}\"), times = 3) # Column names
 kable_styling(
   latex_options = c("HOLD_position", "scale_down") # Keep table position
 column_spec(c(3, 6), border_right = TRUE) |>
 footnote(
   general = "Tests are Welch's \\\\textit{t}-test. Significant results are in bold.",
   # General footnote text with LaTeX formatting
   threeparttable = TRUE, # Enable three-part table for better layout
   footnote_as_chunk = TRUE, # Render footnote as a chunk
   escape = FALSE # Allow LaTeX commands in the footnote
```

Table S1. Difference in independent masculinity ratings given to each stimulus, according to its sexual dimorphism manipulation (feminized - masculinized)

Stimulus	t	p	Stimulus	t	p	Stimulus	t	p
A01	-6.09	< 0.0001	A11	-6.98	< 0.0001	A21	-7.81	< 0.0001
A02	-9.05	< 0.0001	A12	-7.90	< 0.0001	A22	-10.53	< 0.0001
A03	-8.96	< 0.0001	A13	-10.32	< 0.0001	A23	-6.83	< 0.0001
A04	-8.04	< 0.0001	A14	-7.76	< 0.0001	A24	-6.61	< 0.0001
A05	-9.81	< 0.0001	A15	-10.33	< 0.0001	A25	-8.18	< 0.0001
A06	-7.45	< 0.0001	A16	-10.63	< 0.0001	A26	-8.60	< 0.0001
A07	-7.04	< 0.0001	A17	-7.76	< 0.0001	A27	-6.55	< 0.0001
A08	-9.05	< 0.0001	A18	-10.29	< 0.0001	A28	-7.79	< 0.0001
A09	-12.18	< 0.0001	A19	-8.27	< 0.0001	A29	-11.25	< 0.0001
A10	-6.53	< 0.0001	A20	-9.72	< 0.0001	A30	-11.47	< 0.0001

Note: Tests are Welch's t-test. Significant results are in bold.

1.3.2 Age ratings

Then, estimated age of stimuli was assessed.

```
age_dat <- ext_val |>
 select(
   ResponseId,
   contains("E", ignore.case = FALSE)
 select(-c(2:5)) |> # Exclude columns 2 to 5 (irrelevant for this analysis)
 pivot_longer(
   cols = contains("E", ignore.case = FALSE), # Reshape to long format
   names_to = "Stimulus", # Column with stimuli names
   values_to = "Age"
 mutate(Sexual_dimorphism = ifelse(grepl("f_1", Stimulus), "Feminine", "Masculine")) |>
 # Keep only the first 3 characters of the stimulus name
 mutate(Stimulus = str_sub(Stimulus, end = 3))
sum_age_dat <- age_dat |>
 summarise(
   Mean = mean(Age, na.rm = TRUE), # Mean age
   SD = sd(Age, na.rm = TRUE), # Standard deviation of age
   Min = min(Age, na.rm = TRUE), # Minimum age
   Max = max(Age, na.rm = TRUE)
```

1.3.2.1 Histogram of perceived age Distribution of the estimated ages.

```
# Create a histogram of estimated age
ggplot(age_dat, aes(x = Age)) +
   geom_histogram(bins = 26, fill = "#6D9EC1", color = "black") + # Plot histogram with 26 bins
labs(
    x = "Estimated Age", # X-axis label
   y = "Count"
   ) + # Y-axis label
   scale_x_continuous(breaks = seq(15, 40, 5)) # X-axis scale with breaks every 5 units
```

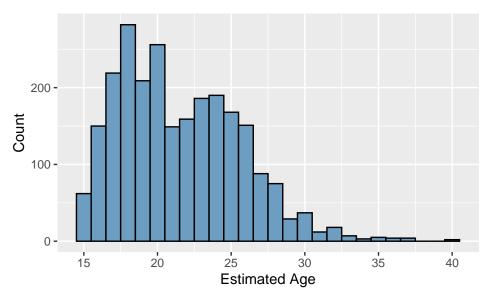


Figure S1. Histogram of estimated age of stimuli by an independent panel of raters. Age estimations were between 15 and 40 with a mean of 21.53 ± 4.11 .

1.4 Load and wrangle main experiment data

1.4.1 Individual databases (by data type/source)

```
# Load the 'CUC-UB' sheet from the 'BD-ET-CUC-UB.xlsx' dataset
dat_et <- read_excel("Data/BD-ET-CUC-UB.xlsx",</pre>
  sheet = "CUC-UB"
 select(-c(
   Participant, Condicion, TOI, Interval, Media_respuesta, AOI,
    AOI_Global, Respuesta, Number_of_mouse_clicks...17,
   Time_to_first_mouse_click...18, AOI_respuesta
 rename(
   ID = Recording,
   University = UNIVERSIDAD,
   Stimulus = Media,
   Condition = Condición,
   Relationship = Contexto,
   Sexual_dimorphism = Rostro,
   TFD = Total_duration_of_whole_fixations,
   NF = Number_of_whole_fixations,
   TFF = Time_to_first_whole_fixation,
   NMC = Number_of_mouse_clicks...21,
   TFMC = Time_to_first_mouse_click...22,
   DFF = Duration_first_fixation
 mutate(across(where(is.character), as.factor)) |>
 mutate(
    Condition = fct_recode(Condition,
```

```
"Low" = "BAJA",
   "High" = "ALTA"
),
Relationship = fct_recode(Relationship,
   "Short term" = "CP",
   "Long term" = "LP"
),
Sexual_dimorphism = fct_recode(Sexual_dimorphism,
   "Feminized" = "Feminizado",
   "Masculinized" = "Masculinizado"
)
) |>
# Modify 'Stimulus' column to include 'F' for Feminized and 'M' for Masculinized mutate(
Stimulus = ifelse(Sexual_dimorphism == "Feminized",
   pasteO(str_sub(str_replace(Stimulus, ".* - ", ""), 1, 2), "F"),
   ifelse(Sexual_dimorphism == "Masculinized",
   pasteO(str_sub(str_replace(Stimulus, ".* - ", ""), 1, 2), "M"),
   Stimulus
)
),
# Create a new column 'Choice' to indicate whether there was a mouse click
Choice = ifelse(NMC == 0, "No", "Yes")
)
```

1.4.1.1 Eye-tracking data

1.4.1.2 Questionnaires This was loaded without calculating total instrument scores (for now), to test internal consistency

```
quests <- read_excel("Data/Cuestionario Datos Sociodemográficos (Disponibilidad) (respuestas) (1).xlsx",
 sheet = "Respuestas de formulario 1"
 select(-c(Invitado, `Servicios ayuda`, `Correos cierre`)) |>
 rename(
   Date = Fecha,
   Age = edad,
   City = Ciudad,
   Education = Escolaridad,
   Ethnicity = Etnia,
   Gender = Sexo,
   Sex = Genero,
   Sexual_orientation = OS,
   Relationship_current = "Pareja actual",
   Relationship_duration = DuracionR,
   Relationship_status = EstadoR,
   Partner_sex = SexoParejaActual,
   Partner_masculinity = Masculinidad_pareja,
   Partner_dominance = Dominancia_pareja,
   Partner_attractiveness = Atractivo_pareja,
   Number_of_children = NumHijos,
   Hormonal_contraception = "Anticonceptivos hormonales",
   Contraceptive = Cual_anticonceptivo,
   Last_mentruation = "Ultima menstruacion",
   Currently_pregnant = "Embarazo actual",
```

```
Sexual_abuse = "Experiencia abuso sexual",
Comments = comentarios1,
Medical_history = "antecedentes medicos",
SP_happiness = "AP felicidad",
SP_financial_security = "AP seguridad economica",
SP_money_control = "AP control dinero",
SP_attractiveness = "AP atractivo",
SP self confidence = "AP autoconfianza",
SP_self_esteem = "AP autoestima",
SP_health = "AP salud",
Electricity = "SB electricidad",
Internet_access = "SB internet",
Internet_use = "Fr acceso internet",
Hospital_access = "Acceso hospital",
Freq_illness = "Fr enfermedades",
Socioeconomic_level = "Estrato socioeconomico",
Neighborhood = "Barrio de residencia",
Perceived neighborhood safety = "Seguridad barrio",
Perceived_city_safety = "Seguridad ciudad",
Perceived_home_safety = "Seguridad hogar",
Perceived_country_safety = "Seguridad país",
Freq_robery = "Fr de robos",
Men_perceived_as_danger_to_children = "Hombres peligrosos hijos",
Men_perceived_as_danger_to_partner = "Hombres peligrosos pareja",
Partner_physical_violence = "VP fisica",
Freq_partner_physical_violence = "Fr VP fisica",
Partner_sexual_violence = "VP sexual",
Freq_partner_sexual_violence = "Fr VP sexual",
Partner_infidelity = "Infidelidad",
Freq partner infidelity = "Fr infidelidad",
Victim_of_violence = "Victima de alguna violencia",
Violence_type = "Tipo violencia",
Victim_of_gender_violence = "Victima violencia género",
Victim_of_armed_conflict = "Victima conflicto armado",
Control_question_1 = "Sin leer",
Control_question_2 = "Broma"
Education = factor(Education, levels = c(
  "Primaria",
  "Bachillerato",
  "Universitario",
  "Posgrado"
Sexual_orientation = factor(Sexual_orientation,
  levels = c(
    "Principalmente heterosexual, con contactos homosexuales esporádicos",
    "Bisexual",
```

```
Relationship_status = factor(Relationship_status,
    levels = c(
      "Soltero con contactos sexuales en el último año",
      "Relación no exclusiva - contactos sexuales con otras personas"
  Internet_use = factor(Internet_use,
   levels = c("Cada día", "Cada mes", "Cada año")
 Socioeconomic_level = as.factor(Socioeconomic_level)
mutate(City = ifelse(City %in% c(
  "Bogotá D.C.", "Madrid, Cundinamarca", "Zipaquirá, Cundinamarca",
  "Zipaquirá", "Mosquera, cundinamarca", "Mosquera",
  "FUNZA, CUNDINAMARCA", "Madrid Cundinamarca", "Une- Cundinamarca"
"Bogota Region",
ifelse(City %in% c(
  "Soledad", "Barranquilla", "BARRANQUILLA",
  "Soledad, Atlantico", "Costa Atlantica", "Corozal"
"Atlantico Region",
mutate(Education = recode(Education,
  "Bachillerato" = "High school",
  "Posgrado" = "Postgraduate"
mutate(Sexual_orientation = recode(Sexual_orientation,
  "Principalmente heterosexual, con contactos homosexuales esporádicos" =
    "Predominantly heterosexual",
  "Predominantemente heterosexual, aunque con contactos homosexuales más que esporádicos" =
  "Pansexual" = "Pansexual",
mutate(Relationship_status = recode(Relationship_status,
    "Single without sexual contacts",
    "Single with sexual contacts",
    "Exclusive relationship - cohabitating",
```

```
"Exclusive relationship - not cohabitating",
  "Relación no exclusiva - contactos sexuales con otras personas" =
    "Non-exclusive relationship"
mutate(Internet_use = recode(Internet_use,
  "Cada mes" = "Monthly",
  "Cada año" = "Yearly"
# Recode several questions related to danger perceptions, replacing Spanish responses with
mutate(across(
  starts_with("Men_perceived_as_danger_to_"),
  ~ recode(.,
   "Ligeramente en desacuerdo" = 2,
   "Ligeramente deacuerdo" = 4,
   "Completamente deacuerdo" = 5
mutate(across(where(is.character), ~ replace(
mutate(across(where(is.character), ~ replace(
))) |>
mutate(across(where(is.character), ~ replace(
   "No quiero responder",
mutate(across(where(is.character), ~ replace(
   "Mujer",
mutate(across(where(is.character), ~ replace(
mutate(across(where(is.character), ~ replace(
   "Femenino",
 "Female"
mutate(across(where(is.character), ~ replace(
```

```
mutate(across(where(is.character), ~ replace(
   "Sin pareja actual",
mutate(across(where(is.character), ~ replace(
   "Sí, una vez en la adultez",
mutate(across(where(is.character), ~ replace(
 "Both as child and adult"
mutate(across(where(is.character), ~ replace(
   "Sí, más de una vez en mi infancia",
 "More than once as child"
mutate(across(where(is.character), ~ replace(
  "Once as child"
mutate(across(where(is.character), ~ replace(
   "Afrocolombiano",
 "Afrocolombian"
mutate(across(where(is.character), ~ replace(
mutate(across(where(is.character), ~ replace(
   "Ninguna",
  "Undetermined"
mutate(across(where(is.character), ~ replace(
mutate(across(where(is.character), ~ replace(
   "Raizal del Archipiélago de San Andrés, Providencia y Santa Catalina",
mutate(across(where(is.character), ~ replace(
```

1.4.1.2.1 Principal component analysis (PCA) To test whether it was possible to reduce the number of socio-ecological variables, we performed PCAs using the package FactoMineR (Lê et al., 2008), and plotted its results with function from the package factoextra (Kassambara & Mundt, 2020).

Socio-ecological factors PCA

```
quests_pca_gen <- quests |>
 select(
   ID, # Unique identifier
   Men_perceived_as_danger_to_partner,
   Men_perceived_as_danger_to_children,
   Freq_partner_physical_violence,
   Freq_partner_sexual_violence,
   Freq_partner_infidelity,
   Perceived_home_safety
  rename_with(~ str_replace_all(., "Freq_", "Frequency of")) |>
 rename_with(~ str_replace_all(., "_", " ")) |>
 rename_with(~ str_to_sentence(.))
pca_sef <- PCA(quests_pca_gen[, -1], graph = FALSE)</pre>
pca sef$var$cor |>
 kable(
    booktabs = TRUE, # Use 'booktabs' style for better-looking tables in LaTeX
    digits = 2, # Round numerical values to 2 decimal places
   align = "c", # Center align all columns
   linesep = "", # No lines between rows
   caption = "Correlation between variables and PCA dimensions",
    escape = FALSE, # Allow LaTeX commands in the table (e.g., italic or bold)
 kable styling(
    latex_options = c("HOLD_position", "scale_down") # Keep table position
```

Table S2. Correlation between variables and PCA dimensions

	Dim.1	Dim.2	Dim.3	Dim.4	Dim.5
Men perceived as danger to partner	0.89	-0.27	-0.03	-0.13	0.01
Men perceived as danger to children	0.89	-0.25	-0.04	-0.11	0.03
Frequency of partner physical violence	0.37	0.63	0.20	0.15	-0.63
Frequency of partner sexual violence	0.31	0.42	-0.48	0.61	0.35
Frequency of partner infidelity	0.19	0.59	0.54	-0.32	0.48
Perceived home safety	0.05	-0.37	0.69	0.61	0.06

Summary plot

```
# Arrange two plots side by side:
# 1. A scree plot showing the explained variance for each principal component
# 2. A plot showing the variable loadings on the principal components
ggarrange(
    fviz_eig(pca_sef, addlabels = TRUE, barfill = "#00AFBB") +
    labs(
        title = "PCA: Socio-ecological factors", # Title for the scree plot
        subtitle = "Scree plot" # Subtitle for the scree plot
    ),
fviz_pca_var(pca_sef,
    col.var = "#00AFBB", # Color the variable loadings in teal
    repel = TRUE # Avoid overlapping labels
) +
    labs(
        title = NULL, # No title for the loading plot
        subtitle = "Loadings" # Subtitle for the loading plot
    ),
    labels = "auto"
)
```

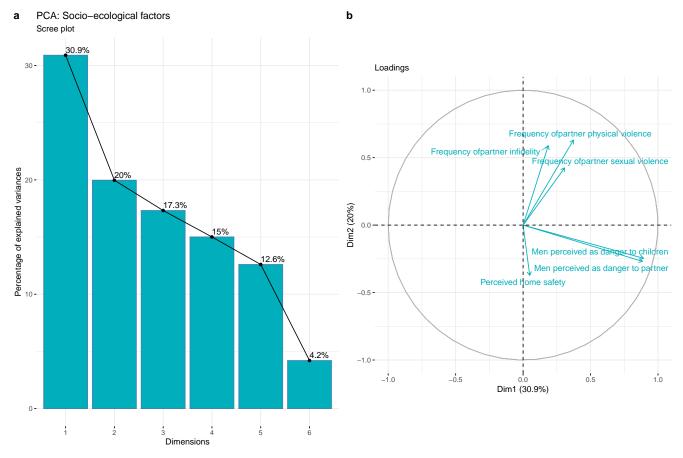


Figure S2. Summary of the PCA for all socio-ecological factors. a. Scree plot. b. Factor loadings.

When including all socio-ecological factors, the only variables that strongly correlate between them and with the PCA dimension (Table ??; Fig. S2), are the two variables that evaluate participant's perception of men as dangerous to children and to their partner.

Because of this, a new PCA was performed or only these two variables, to calculate a score of Men perceived as dangerous. All remaining socio-ecological variables were kept.

Men perceived as dangerous

```
# Select relevant columns for PCA from the 'quests' dataset
quests_pca <- quests |>
    select(
        ID,
        Men_perceived_as_danger_to_partner,
        Men_perceived_as_danger_to_children
) |>
    # Rename columns: remove "Men_perceived_as_danger_to_"
    rename_with(~ str_remove_all(., "Men_perceived_as_danger_to_")) |>
    # Capitalize the first letter of each column name
    rename_with(~ str_to_sentence(.))

# Perform PCA on the selected variables (excluding the ID column)
pca_mpd <- PCA(quests_pca[, -1], graph = FALSE)

# Calculate score for the men perceived as dangerous dimension
mpd_scores <- data.frame(pca_mpd$ind$coord)$Dim.1</pre>
```

```
# Display summary of the PCA results
pca_mpd$var$cor |>
    # Create a table using the 'kable' function
kable(
    booktabs = TRUE, # Use 'booktabs' style for better-looking tables in LaTeX
    digits = 2, # Round numerical values to 2 decimal places
    align = "c", # Center align all columns
    linesep = "", # No lines between rows
    caption = "Correlation between variables and PCA dimensions",
    # Caption for the table
    escape = FALSE, # Allow LaTeX commands in the table (e.g., italic or bold)
) |>
    # Apply additional LaTeX styling to the table using 'kable_styling'
kable_styling(
    latex_options = c("HOLD_position", "scale_down") # Keep table position
)
```

Table S3. Correlation between variables and PCA dimensions

	Dim.1	Dim.2
Partner	0.93	0.36
Children	0.93	-0.36

Summary plot

In fact, the two variables related to men perceived as dangerous, could be reduced to a single dimension, that captured over 87% of the variance.

```
# Arrange two plots side by side:
# 1. A scree plot showing the explained variance for each principal component
# 2. A plot showing the variable loadings on the principal components
ggarrange(
    fviz_eig(pca_mpd, addlabels = TRUE, barfill = "#00AFBB") +
    labs(
        title = "PCA: Men perceived as danger to...", # Title for the scree plot
        subtitle = "Scree plot" # Subtitle for the scree plot
    ),
    fviz_pca_var(pca_mpd,
        col.var = "#00AFBB", # Color the variable loadings in teal
        repel = TRUE # Avoid overlapping labels
) +
    labs(
        title = NULL, # No title for the loading plot
        subtitle = "Loadings" # Subtitle for the loading plot
    ),
    labels = "auto"
)
```

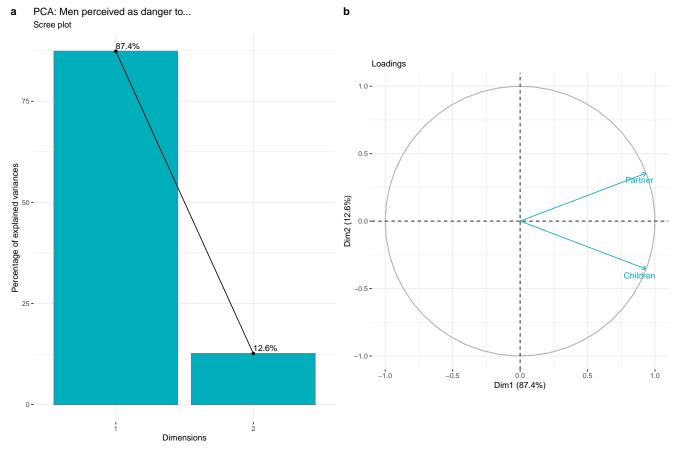


Figure S3. Summary of the PCA for factors related to men perceived as dangerous. **a.** Scree plot. **b.** Factor loadings.

1.4.1.2.2 Clean questionnaire data Less columns, with total instrument scores

```
# Clean and modify the 'quests' dataset
quests_clean <- quests |>
    # Recode values in columns that start with "Escasez alimentaria"
mutate(across(
    starts_with("Escasez alimentaria"),
    ~ recode(.,
        "Nunca" = 0, # Recode "Nunca" to 0
        "Rara vez/algunas veces" = 1, # Recode "Rara vez/algunas veces" to 1
        "Casi siempre" = 2 # Recode "Casi siempre" to 2
    ))
)) |>
    # Perform row-wise operations
rowwise() |>
    # Create new variables by summing up specific columns
mutate(
    # Calculate Self-esteem score by summing relevant items (with reverse scoring)
    Self_esteem = sum(
        autoestima_II, 5 - autoestima_I2, autoestima_I3, autoestima_I4,
        autoestima_I5, 5 - autoestima_I6, autoestima_I7, 5 - autoestima_I8,
        5 - autoestima_I9, autoestima_I10
),
    # Calculate Self-perception score by summing columns that start with "SP_"
    Self_perception = sum(across(starts_with("SP_"))),
```

```
# Calculate Perceived safety by summing columns that end with "_safety"
Perceived_safety = sum(across(ends_with("_safety"))),
# Calculate Food insecurity by summing columns that start with "Escasez alimentaria"
Food_insecurity = sum(across(starts_with("Escasez alimentaria")))
) |>
# Remove columns that start with "autoestima_"
select(!starts_with("autoestima_")) |>
# Convert character columns to factors
mutate(across(where(is.character), as.factor)) |>
# Bind the column 'Men_perceived_as_dangerous' from 'mpd_scores' (PCA scores)
bind_cols(Men_perceived_as_dangerous = mpd_scores)
```

1.4.1.3 Subjective evaluation of stimuli

```
# Load the subjective evaluation dataset, removing the last two columns (123 and 124)
eval <- read_excel("Data/Evaluación subjetiva rostros (Respuestas).xlsx") |>
select(-c(123:124)) |>
# Perform row-wise operations to compute new variables
rowwise() |>
# Calculate the sum of masculinity and attractiveness ratings for both masculinized and
# feminized stimuli
mutate(
    Masculinity_masculinized = sum(across(ends_with("M Mas"))),
    Asculinity_feminized = sum(across(ends_with("F Mas"))),
    Attractiveness_masculinized = sum(across(ends_with("M Atr"))),
    Attractiveness_feminized = sum(across(ends_with("F Atr")))
) |>
# Rename columns for clarity
rename(
    Date = "Marca temporal",
    ID = "Escribe tu código de participante"
)
```

1.4.1.3.1 Wide format

```
# Create a long format dataset by combining attractiveness and masculinity ratings
eval_long <- left_join(
    # First, select relevant columns and pivot the attractiveness ratings to long format
    eval |>
        select(-c(123:126)) |> # Remove unnecessary columns
        select(!ends_with(" Mas")) |> # Exclude masculinity-related columns
        pivot_longer(
        cols = ends_with("Atr"), # Pivot attractiveness ratings to long format
        names_to = "Stimulus",
        values_to = "Attractiveness"
        ) |>
        mutate(Stimulus = str_remove_all(Stimulus, " Atr")), # Clean the Stimulus names
        # Next, pivot the masculinity ratings to long format
        eval |>
        select(-c(123:126)) |> # Remove unnecessary columns
        select(!ends_with(" Atr")) |> # Exclude attractiveness-related columns
        pivot_longer(
        cols = ends_with("Mas"), # Pivot masculinity ratings to long format
        names_to = "Stimulus",
```

```
values_to = "Masculinity"
) |>
  mutate(Stimulus = str_remove_all(Stimulus, " Mas")) # Clean the Stimulus names
)
```

1.4.1.3.2 Long format

```
reg <- rbind(</pre>
 read_excel("Data/3Registro Participantes Disponibilidad de Recursos-corregido.xlsx",
   sheet = "UB"
   mutate(University = "UB"),
 read_excel("Data/3Registro Participantes Disponibilidad de Recursos-corregido.xlsx",
    sheet = "CUC"
   mutate(University = "CUC")
 select(-c(
   Grupo, `Entrega de kit`, `Protocolo de bioseguridad`, `Requisitos previos al registro`,
    Consentimiento, `Código de evaluador`: `Código auxiliar que reclutó`
 rename(
   Date = "Fecha de registro",
   ID = "Codigo del Participante",
   Condition = "Condicion",
    Calibration = "Calibración",
   Gaze_perc = "% Gaze",
   Condition happiness = "Q Feliz",
   Condition_physical_safety = "Q Segura fisicamente",
   Condition_healthy = "Q Saludable",
    Condition_economic_security = "Q Segura económicamente",
    Body_temperature = "Temperatura",
    Ovulating = "Test de ovulación",
    Saliva_pre = "Recolección de saliva pre",
   Saliva_pre_time = "Hora...18",
   Eye_tracking = "Rastreo Ocular",
   Subjective_evaluation = "Evaluación subjetiva",
   Sociodemographic_questionnaire = "Cuestionario sociodemográfico",
   Saliva_post = "Recolección de saliva post",
   Saliva_post_time = "Hora...23",
   Notes = "Observaciones"
 mutate(
   Condition = fct_recode(Condition,
     "High" = "Alta"
   Calibration = fct_recode(Calibration,
      ">0.5" = ">0.5 (mayor a 0.5)",
     "<=0.5" = "0.5 (igual a 0.5)",
     NULL = "Selecciona"
    Ovulating = fct_recode(as.factor(Ovulating),
```

```
"Yes" = "1"
)
) |>
mutate_all(~ str_replace_all(., "SI", "Yes")) |>
mutate_all(~ str_replace_all(., "NO", "No")) |>
mutate_all(~ str_replace_all(., "INCOMPLETO", "No")) |>
mutate_all(~ str_replace_all(., "Recuperado", "Data recovered")) |>
mutate_all(~ str_replace_all(., "RECUPERADO", "Data recovered")) |>
mutate_all(~ na_if(., "Selecciona")) |>
mutate_all(~ na_if(., "N/A")) |>
mutate_all(~ na_if(., "N/A")) |>
mutate(across(starts_with("Condition_"), as.numeric))
```

1.4.1.4 Resource availability

1.4.2 Full, final database

```
dat_int <- dat_et |>
  left_join(quests_clean, by = c("ID"), multiple = "all") |>
  left_join(eval_long, by = c("ID", "Stimulus"), multiple = "all") |>
  left_join(reg, by = c("ID", "University", "Condition"), multiple = "all")
```

1.4.2.1 Join data files

1.4.2.2 Filtered database Filtered database to exclude participants who did responded the two control questions correctly, were ovulating, or did not report being exclusively heterosexual.

```
dat <- dat_int |>
    # Filter out rows where Control_question_1 and Control_question_2 are both "No",
# Ovulating is not "Yes", and Sexual_orientation is "Exclusively heterosexual"
filter(Control_question_1 == "No" &
    Control_question_2 == "No" &
    Ovulating != "Yes" &
    Sexual_orientation == "Exclusively heterosexual") |>
    # Remove all occurrences of the letter "F" from the Stimulus column
# (infomation already in the column Sexual_dimorphism)
mutate(Stimulus = str_remove_all(Stimulus, "F")) |>
# Remove all occurrences of the letter "M" from the Stimulus column
# (infomation already in the column Sexual_dimorphism)
mutate(Stimulus = str_remove_all(Stimulus, "M")) |>
# Ensure that the resulting data frame is ungrouped
ungroup()
```

After filtering the database and removing data who did not meet these criteria, from an initial sample size of 499 women, the final database contained data from 293 exclusively heterosexual participants, who were not ovulating.

1.4.3 Final individual databases filtered to the final sample

```
reg_fin <- reg |>
  left_join(quests_clean, by = c("ID")) |>
  filter(ID %in% unique(dat$ID))
```

1.4.3.1 Resource availability (filtered)

```
quests_fin <- quests_clean |>
  filter(ID %in% unique(dat$ID))
```

1.4.3.2 Questionnaires (filtered)

1.4.3.3 Differences in fixations to masculinized and feminized stimuli To test bias in fixation patterns according to the sexual dimorphism manipulation, difference scores (masculinized - feminized) were calculated

```
dat dif <- dat |>
  group_by(ID,
           Stimulus,
           Condition,
           Relationship,
           Sexual_orientation,
           Freq_partner_physical_violence,
           Freq_partner_sexual_violence,
           Freq_partner_infidelity,
           Relationship_current,
           Men_perceived_as_dangerous) |>
  summarise(DFF_dif = DFF[Sexual_dimorphism == "Masculinized"] - DFF[Sexual_dimorphism == "Feminized"],
            TFD dif = TFD[Sexual dimorphism == "Masculinized"] - TFD[Sexual dimorphism == "Feminized"],
            NF_dif = NF[Sexual_dimorphism == "Masculinized"] - NF[Sexual_dimorphism == "Feminized"],
            Attr_dif = Attractiveness[Sexual_dimorphism == "Masculinized"] - Attractiveness[Sexual_dimorph
            Masc_dif = Masculinity[Sexual_dimorphism == "Masculinized"] - Masculinity[Sexual_dimorphism ==
  ungroup() |>
  mutate(across(where(is.character), as.factor))
```

2 Descriptives

2.1 Number and age of participants in each condition

```
dat |>
  group_by(ID) |>
 summarise(
    Age = first(Age),
   Condition = first(Condition)
 ungroup() |>
  group_by(Condition) |>
 summarise(
   n = n_distinct(ID),
   Mean = mean(Age, na.rm = TRUE),
   SD = sd(Age, na.rm = TRUE),
   Min = min(Age, na.rm = TRUE),
   Max = max(Age, na.rm = TRUE)
 kable(
    booktabs = TRUE, # Use 'booktabs' style for better-looking tables in LaTeX
    digits = 2, # Round numerical values to 2 decimal places
   align = "c", # Center align all columns
   linesep = "", # No lines between rows
    caption = "Number and age of participants in each condition",
   escape = FALSE, # Allow LaTeX commands in the table (e.g., italic or bold)
    col.names = c(
      "Condition",
```

```
"Min.",
    "Max."
)
) |>
# Apply additional LaTeX styling to the table using 'kable_styling'
kable_styling(
    latex_options = c("HOLD_position", "scale_down") # Keep table position
)
```

Table S4. Number and age of participants in each condition

Condition	n	Mean	SD	Min.	Max.
High	165	21.41	2.25	18	27
Low	128	21.50	2.25	18	25

2.2 Select and wrangle data for descriptive plots

```
desc_quest <-
 quests_fin |>
 left_join(reg, by = c("ID")) |>
 select(
   ID,
   Condition,
    Age,
   City,
   Education,
   Ethnicity,
   Sexual_orientation,
   Relationship_current,
   Relationship_status:Hormonal_contraception,
   Sexual abuse,
   SP_happiness:Socioeconomic_level,
   Perceived_country_safety:Freq_robery,
   Victim_of_violence,
   Victim_of_gender_violence:Victim_of_armed_conflict,
   Self_esteem:Men_perceived_as_dangerous,
   Freq_partner_physical_violence,
   Freq_partner_infidelity,
   Partner_physical_violence,
   Partner_sexual_violence,
   Freq_partner_sexual_violence,
 mutate(
   across(
      starts_with("Escasez alimentaria"),
      ~ recode(.,
```

2.3 Distribution of values across variables

2.3.1 Sociodemographic variables

```
ggarrange(
 desc quest |>
   select(ID, Condition, Age, Number_of_children) |>
   pivot_longer(where(is.numeric),
                names_to = "Variable",
                values_to = "Value") |>
   mutate(Variable = str_replace_all(Variable, "_", "_")) |>
   ggplot(aes(x = Value, fill = Condition, color = Condition)) +
   geom_density(alpha = 0.3) + # Use semi-transparent density curves
   facet_wrap(~Variable, scales = "free", ncol = 1) + # Display variables in separate panels
   stat_summary(aes(xintercept = after_stat(x), y = 0),
                 fun = mean, geom = "vline", orientation = "y") + # Add vertical lines at mean values
   labs(x = NULL, y = NULL), # Remove axis labels for this panel
 desc quest |>
   select(ID, Condition, City, Ethnicity,
          Education, Relationship_current, Relationship_status) |>
   pivot_longer(City:Relationship_status,
                 names_to = "Variable",
                 values_to = "Value") |>
   mutate(Variable = str_replace_all(Variable, "_", " ")) |>
   ggplot(aes(y = Value, fill = Condition, color = Condition)) +
   geom_bar(alpha = 0.3, position = position_dodge()) + # Use semi-transparent bars
```

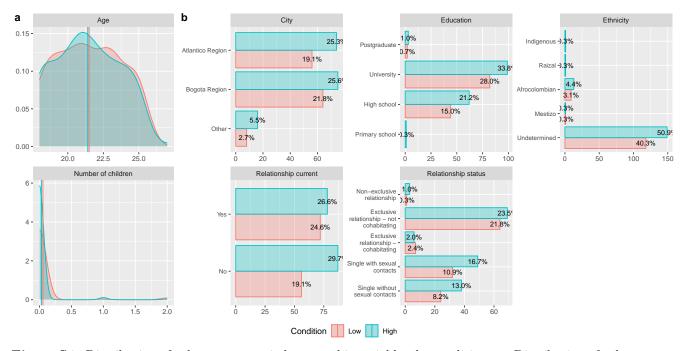


Figure S4. Distribution of values across sociodemographic variables, by condition. **a.** Distribution of values across numeric sociodemographic variables. Colored vertical lines indicate the mean value for each variable under each condition. **b.** Proportional number of participants across categorical variables.

2.3.2 Access to resources

```
names_to = "Variable",
              values to = "Value") |>
mutate(Variable = str_replace_all(Variable, "_", " ")) |>
ggplot(aes(y = Value, fill = Condition, color = Condition)) +
geom_bar(alpha = 0.3, position = position_dodge()) + # Use semi-transparent bars
geom_text(aes(label = scales::percent(after_stat(prop), accuracy = 0.1)),
             xjust = "inward",
             position = position_dodge(.9),
             color = "black",
             size = 3) +
facet_wrap(~Variable, scales = "free") + # Display variables in separate panels
scale_y_discrete(labels = label_wrap(20)) + # Wrap long labels for categorical axes
theme(axis.text.y = element_text(size = 8)) + # Reduce font size for y-axis text
labs(x = NULL, y = NULL), # Remove axis labels
widths = c(1, 3),
common.legend = TRUE,
legend = "bottom"
```

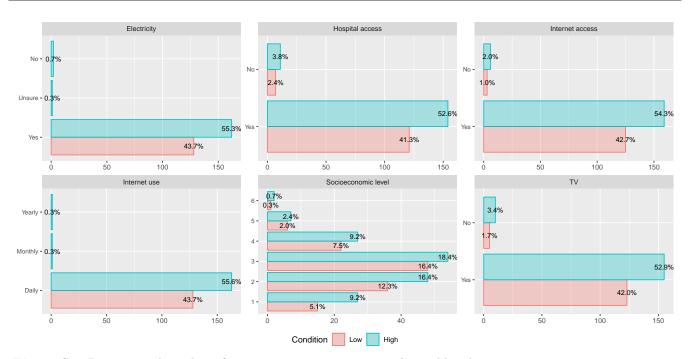


Figure S5. Proportional number of participants across categorical variables that measure access to resources.

2.3.3 Health-related variables

```
ggarrange(
    # Select relevant columns from desc_quest and pivot them into a long format
    desc_quest |>
        select(ID, Condition, Freq_illness, SP_health) |>
        # Convert the Frequency of illness and Self-perceived health columns into separate rows
```

```
pivot_longer(Freq_illness:SP_health,
              names_to = "Variable",
              values to = "Value") |>
mutate(Variable = str_replace_all(Variable, "_", " ")) |>
# Rename variables
mutate(Variable = str_replace_all(Variable, "Freq", "Frequency of")) |>
mutate(Variable = str_replace_all(Variable, "SP", "Self-perceived")) |>
mutate(Value = as.numeric(Value)) |>
ggplot(aes(x = Value, fill = Condition, color = Condition)) +
geom_density(alpha = 0.3) +
facet_wrap(~Variable) +
stat_summary(aes(xintercept = after_stat(x), y = 0),
              fun = mean, geom = "vline", orientation = "y") +
labs(x = NULL, y = "Density"),
widths = c(2, 1),
common_legend = TRUE,
legend = "bottom")
```

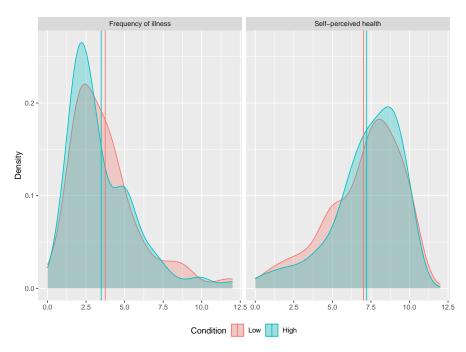


Figure S6. Distribution of values across numeric health-related variables. Colored vertical lines indicate the mean value for each variable under each condition.

2.3.4 Food security

```
ggarrange(
    # Select columns from desc_quest, including 'Escasez alimentaria' (food scarcity)
    desc_quest |>
```

```
select(ID, Condition, "Escasez alimentaria1":"Escasez alimentaria5") |>
 pivot_longer("Escasez alimentaria1":"Escasez alimentaria5",
   names_to = "Variable",
   values_to = "Value") |>
 mutate(Variable = str replace all(Variable, "Escasez alimentaria", "")) |>
 mutate(Variable = str_replace_all(Variable, "1", "1. Smaller food portions")) |>
 mutate(Variable = str_replace_all(Variable, "2", "2. Reduced number of meals")) |>
 mutate(Variable = str_replace_all(Variable, "3", "3. Food scarcity at home")) |>
 mutate(Variable = str_replace_all(Variable, "4", "4. Sleeping with hunger")) |>
 mutate(Variable = str_replace_all(Variable, "5", "5. Day and night without eating")) |>
  ggplot(aes(y = Value, fill = Condition, color = Condition)) +
  geom_bar(alpha = 0.3, position = position_dodge()) +
 geom_text(aes(label = scales::percent(after_stat(prop), accuracy = 0.1)),
   vjust = "inward",
   position = position_dodge(.9),
   color = "black",
   size = 2.5) +
 facet_wrap(~Variable, scales = "free") +
 scale_y_discrete(labels = label_wrap(20)) +
  theme(axis.text.y = element_text(size = 8)) +
 labs(x = NULL, y = NULL, title = "Items"),
desc_quest |>
 select(ID, Condition, Food_insecurity) |>
 pivot_longer(Food_insecurity,
   names_to = "Variable",
   values to = "Value") |>
 mutate(Value = as.numeric(Value)) |>
 mutate(Variable = str_replace_all(Variable, "_", "_")) |>
  ggplot(aes(x = Value, fill = Condition, color = Condition)) +
 geom_density(alpha = 0.3) +
 facet_wrap(~Variable) +
 stat_summary(aes(xintercept = after_stat(x), y = 0),
   fun = mean, geom = "vline", orientation = "y") +
  labs(x = NULL, y = NULL, title = "Total"),
widths = c(3, 1),
common.legend = TRUE,
legend = "bottom",
labels = "auto")
```

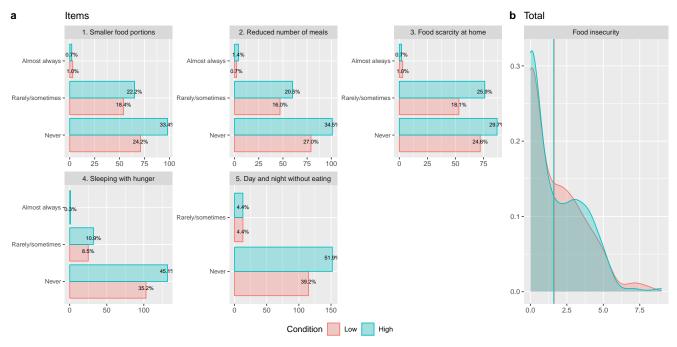


Figure S7. Distribution of values across food security variables, by condition. **a.** Proportional number of participants across ordinal items. **b.** Distribution of values for the toital score. Colored vertical lines indicate the mean value for participants in each condition.

2.3.5 Hormonal variables

```
ggarrange(
 reg_fin |>
   select(ID, Condition, Body_temperature) |>
   pivot longer(Body temperature,
     names_to = "Variable",
     values_to = "Value") |>
   mutate(Value = as.numeric(Value)) |>
   ggplot(aes(x = Value, fill = Condition, color = Condition)) +
   geom_density(alpha = 0.3) +
   facet_wrap(~Variable) +
   stat_summary(aes(xintercept = after_stat(x), y = 0),
     fun = mean, geom = "vline", orientation = "y") +
   labs(x = NULL, y = NULL),
 reg_fin |>
   left_join(desc_quest, by = c("ID", "Condition", "Hormonal_contraception")) |>
   select(ID, Condition, Ovulating, Hormonal_contraception) |>
   pivot longer(Ovulating:Hormonal contraception,
     names_to = "Variable",
     values to = "Value") |>
   mutate(Variable = str_replace_all(Variable, "_", "_")) |>
   ggplot(aes(y = Value, fill = Condition, color = Condition)) +
   geom_bar(alpha = 0.3, position = position_dodge()) +
   geom_text(aes(label = scales::percent(after_stat(prop), accuracy = 0.1)),
     vjust = "inward",
     position = position_dodge(.9),
     stat = "prop",
     size = 2.5) +
   facet_wrap(~Variable, scales = "free") +
```



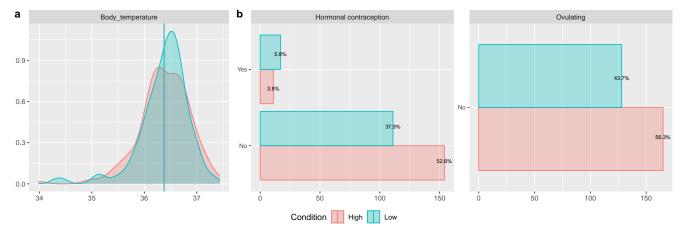


Figure S8. Distribution of values across hormonal variables, by condition. **a.** Distribution of values for body temperature. Colored vertical lines indicate the mean value for participants in each condition. **b.** Proportional number of participants across categorical variables.

2.3.6 Self-perceived conditions

```
desc_quest |>
  select(ID, Condition, starts_with("SP_"), -SP_health) |>
 pivot_longer(where(is.numeric),
               names_to = "Variable",
               values_to = "Value") |>
 mutate(Variable = str_replace_all(Variable, "SP_", "")) |>
 mutate(Variable = str_replace_all(Variable, "self_", "self-")) |>
 mutate(Variable = str_replace_all(Variable, "_", "_")) |>
 mutate(Variable = str_to_sentence(Variable)) |>
  ggplot(aes(x = Value, fill = Condition, color = Condition)) +
  geom_density(alpha = 0.3) +
  theme(legend.position = "bottom") +
  stat_summary(aes(xintercept = after_stat(x), y = 0),
               fun = mean, geom = "vline", orientation = "y") +
  labs(x = NULL, y = NULL) +
  facet_wrap(~Variable, scales = "free")
```

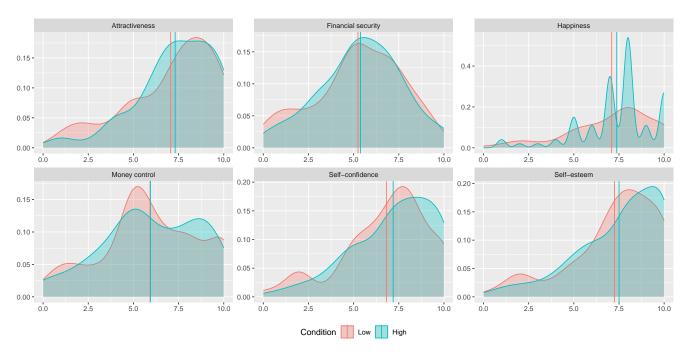


Figure S9. Distribution of values across self-perceived conditions. Colored vertical lines indicate the mean value for participants in each condition.

2.3.7 Current/last partner perception

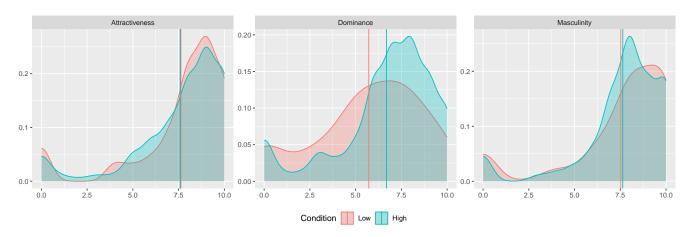


Figure S10. Distribution of values across perceptions of the last partner by condition. Colored vertical lines indicate the mean value for participants in each condition.

2.3.8 Context violence

```
ggarrange(desc_quest |>
           select(ID, Condition, ends_with("_safety"), Freq_robery) |>
           pivot_longer(where(is.numeric),
                         names_to = "Variable",
                         values_to = "Value") |>
           mutate(Value = as.numeric(Value)) |>
           mutate(Variable = str_replace_all(Variable, "_safety", "")) |>
           mutate(Variable = str_replace_all(Variable, "Perceived_", "")) |>
           mutate(Variable = str_replace_all(Variable, "Freq_", "Frequency of ")) |>
           mutate(Variable = str_replace_all(Variable, "Perceived", "General perception")) |>
           mutate(Variable = str_to_sentence(Variable)) |>
           ggplot(aes(x = Value, fill = Condition, color = Condition)) +
           geom_density(alpha = 0.3) +
           labs(title = "Safety perception") +
           facet_wrap(~factor(Variable, c("Country", "City", "Neighborhood", "Home",
                                           "Frequency of robery", "General perception")),
                               scales = "free") +
           stat_summary(aes(xintercept = after_stat(x), y = 0),
                         fun = mean, geom = "vline", orientation = "y") +
           labs(x = NULL, y = NULL),
          ggarrange(desc_quest |>
                      select(ID, Condition,
                             Men_perceived_as_dangerous) |>
                      pivot_longer(Men_perceived_as_dangerous,
                                   names_to = "Variable",
                                   values_to = "Value") |>
                      mutate(Variable = str replace all(Variable,
                      mutate(Variable = str_to_sentence(Variable)) |>
                      ggplot(aes(x = Value, fill = Condition, color = Condition)) +
                      geom_density(alpha = 0.3) +
                      labs(title = "Men perceived as dangerous") +
                      facet_wrap(~Variable, scales = "free") +
                      stat_summary(aes(xintercept = after_stat(x), y = 0),
                                   fun = mean, geom = "vline", orientation = "y") +
                      theme(axis.text.y = element_text(size = 8)) +
```

```
labs(x = NULL, y = NULL),
          desc_quest |>
            select(ID, Condition, Victim_of_armed_conflict) |>
            pivot_longer(Victim_of_armed_conflict,
                         names_to = "Variable",
                         values_to = "Value") |>
            mutate(Variable = str replace all(Variable,
            ggplot(aes(y = Value, fill = Condition, color = Condition)) +
            geom_bar(alpha = 0.3, position = position_dodge()) +
            geom_text(aes(label = scales::percent(after_stat(prop), accuracy = 0.1)),
                      vjust = "inward",
                      position = position_dodge(.9),
                      stat = "prop",
                      color = "black",
            labs(title = "Victim of armed conflict") +
            facet_wrap(~Variable, scales = "free") +
            scale_y_discrete(labels = label_wrap(20)) +
            theme(axis.text.y = element_text(size = 8)) +
            labs(x = NULL, y = NULL),
          labels = c("", "c")),
widths = c(2, 1),
common.legend = TRUE,
legend = "bottom",
labels = "auto")
```

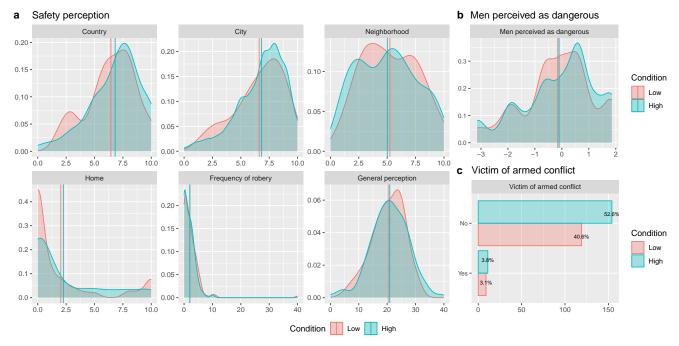


Figure S11. Distribution of values across perceptions of violence, by condition. **a.** Distribution of values across variables related to safety perception. **b.** Perceptions of men as dangerous. **c.** Proportional number of participants who reported being victims of the Colombian armed conflict. For panels a and b, colored vertical lines indicate the mean value for each variable under each condition.

2.3.9 Gender and partner violence

```
ggarrange(desc_quest |>
           select(ID, Condition, Freq_partner_physical_violence,
                   , Freq_partner_sexual_violence, Freq_partner_infidelity) |>
           pivot_longer(where(is.numeric),
                        names_to = "Variable",
                        values_to = "Value") |>
           mutate(Value = as.numeric(Value)) |>
           mutate(Variable = str_replace_all(Variable, "Freq_partner_", "")) |>
           mutate(Variable = str_replace_all(Variable, "_", " ")) |>
           mutate(Variable = str_to_sentence(Variable)) |>
           ggplot(aes(x = Value, fill = Condition, color = Condition)) +
           geom_density(alpha = 0.3) +
           facet_wrap(~factor(Variable, c("Physical violence",
                                           "Infidelity")),
                       scales = "free", ncol = 1) +
           stat_summary(aes(xintercept = after_stat(x), y = 0),
                         fun = mean, geom = "vline", orientation = "y") +
           labs(x = NULL, y = NULL),
         desc_quest |>
           select(ID, Condition,
                   Victim_of_gender_violence,
                   Partner_physical_violence,
                   Partner_sexual_violence,
                   Sexual_abuse) |>
           pivot_longer(Victim_of_gender_violence:Sexual_abuse,
                        names_to = "Variable",
                        values to = "Value") |>
           mutate(Value = as.factor(Value)) |>
           mutate(Variable = str_replace_all(Variable,
           mutate(Variable = str_to_sentence(Variable)) |>
           ggplot(aes(y = Value, fill = Condition, color = Condition)) +
           geom_bar(alpha = 0.3, position = position_dodge()) +
           geom_text(aes(label = scales::percent(after_stat(prop), accuracy = 0.1)),
                      vjust = "inward",
                      position = position_dodge(.9),
                      stat = "prop",
                      size = 2.5) +
           facet_wrap(~Variable,
                               scales = "free") +
           scale_y_discrete(labels = label_wrap(20)) +
           theme(axis.text.y = element_text(size = 8)) +
           labs(x = NULL, y = NULL),
          widths = c(1, 3),
          common.legend = TRUE,
         legend = "bottom",
         labels = "auto")
```

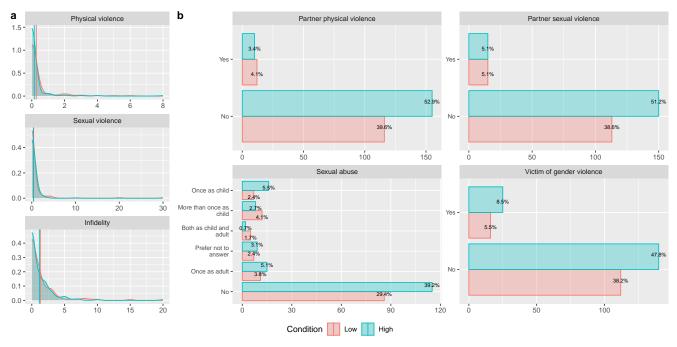


Figure S12. Distribution of values across gender and partner violence suffered by participants, by condition. **a.** Distribution of values across numeric variables. Colored vertical lines indicate the mean value for each variable under each condition. **b.** Proportional number of participants wacross categorical variables.

2.3.10 Subjective evaluation of stimuli

```
cond_labs <- c("Condition: High", "Condition: Low")</pre>
names(cond_labs) <- c("High", "Low")</pre>
eval_long |>
 left_join(reg, by = c("ID")) |>
 filter(ID %in% unique(dat$ID)) |>
  rowwise() |>
 mutate(Sexual_dimorphism = ifelse(grepl("F", Stimulus), "Feminine", "Masculine")) |>
  select(Condition, Sexual_dimorphism, Attractiveness, Masculinity) |>
  pivot_longer(Attractiveness:Masculinity,
               names_to = "Variable",
               values_to = "Value") |>
  ggplot(aes(x = Value, fill = Sexual_dimorphism, color = Sexual_dimorphism)) +
  geom_density(alpha = 0.3) +
  theme(legend.position = "bottom") +
  labs(y = "Density", x = "Score", color = "Sexual dimorphism", fill = "Sexual dimorphism") +
  facet_grid(Condition~Variable, scales = "free",
             labeller = labeller(Condition = cond_labs)) +
  scale_color_manual(values = c("#E69F00", "#56B4E9")) +
  scale_fill_manual(values = c("#E69F00", "#56B4E9")) +
  stat_summary(aes(xintercept = after_stat(x), y = 0),
               fun = mean, geom = "vline", orientation = "y")
```

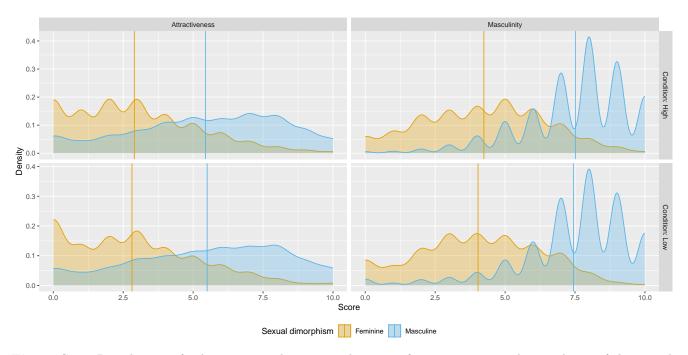


Figure S13. Distribution of values across subjective evaluations of attractiveness and masculinity of the stimuli used in the experiment, split by sexual dimorphism manipulations (feminine, maculine). Panels on the left are for attractiveness scores, and on the right for masculinity scores. Top panels are for participants in the high condition, and on the bottom for the low condition. Colored vertical lines indicate the mean value for participants in each condition.

2.4 Correlations

2.4.1 Correlations between partner perceptions

```
quests_fin |>
 select(
   Freq_partner_physical_violence,
   Freq_partner_sexual_violence,
   Freq_partner_infidelity,
   Partner_masculinity,
   Partner_dominance,
   Partner_attractiveness) |>
 rename(
   "Physical violence" = "Freq_partner_physical_violence",
   "Sexual violence" = "Freq_partner_sexual_violence",
   "Infidelity" = "Freq_partner_infidelity",
   "Masculinity" = "Partner_masculinity",
   "Attractiveness" = "Partner attractiveness") |>
  corr.stars() |>
 rownames_to_column(var = " ") |>
 dplyr::slice(-1) |>
 kable(digits = 2,
       booktabs = TRUE,
       align = c("l", rep("c", 5)),
       caption = "Correlations between partner perceptions",
       escape = FALSE) |>
 kable_styling(latex_options = c("HOLD_position")) |>
```

Table S5. Correlations between partner perceptions

	Physical violence	Sexual violence	Infidelity	Masculinity	Dominance
Sexual violence	0.18**				
Infidelity	0.25***	0.01			
Masculinity	-0.03	0.03	0.13*		
Dominance	0.01	0.08	0.08	0.72***	
Attractiveness	-0.06	0.07	0.06	0.78***	0.6***

Note: Values represent Pearson correlation coefficients (r). Physical violence, sexual violence, and infidelity are frequencies. For significance, $^{\dagger}p < 0.1$, $^*p < 0.05$, $^{**}p < 0.01$, $^{***}p < 0.001$. Significant correlations are in bold.

2.4.2 Correlations between XXXXXX

```
desc_quest |>
  left_join(reg_fin |>
              select(ID, Body_temperature),
            by = c("ID")) |>
 select(Age,
         Freq_illness,
         starts_with("SP_"),
         Partner_masculinity, Partner_dominance, Partner_attractiveness,
         ends_with("_safety"), Freq_robery,
         Freq partner physical violence,
         Freq_partner_sexual_violence,
         Freq_partner_infidelity) |>
  rename_with(~str_replace_all(., "_", " ")) |>
  rename_with(~str_replace_all(., "Freq", "Frequency of")) |>
  rename_with(~str_replace_all(., "Frequency of partner", "Partner")) |>
  rename_with(~str_replace_all(., "Perceived", "")) |>
  rename_with(~str_replace_all(., "asculinity", "asc.")) |>
 rename_with(~str_replace_all(., "ttractiveness", "ttr.")) |>
  rename_with(~str_replace_all(., "ominance", "om.")) |>
  rename_with(~str_replace_all(., " neighborhood", "Neighbor.")) |>
  rename_with(~str_replace_all(., "Partner ", "")) |>
  rename_with(~str_to_sentence(.)) |>
  rename_with(~str_replace_all(., "Sp", "S.P.")) |>
  rename_with(~str_trim(.)) |>
  corr.stars() |>
 rownames_to_column(var = " ") |>
 dplyr::slice(-1) |>
 kable(digits = 2,
        booktabs = TRUE,
        align = c("l", rep("c", 20)),
        linesep = "",
        caption = "Correlations between XXXXXX",
```

```
escape = FALSE) |>
kable_styling(latex_options = c("HOLD_position"),
             font_size = 4) |>
column_spec(1, width = "1.2cm") |>
column_spec(2:21, width = "0.75cm") |>
add_header_above(c(" ",
                   "Age" = 1,
                   "Self-perceived conditions" = 7,
                   "Current/last partner\nperception" = 3,
                   "Frequency of\npartner violence" = 2),
                 bold = TRUE) |>
footnote(general = paste0("Values represent Pearson correlation coefficients ($r$). ",
                          "S.P. = self-perceived; masc. = masculinity;
                          neighbor. = neighborhood. ",
                          "For significance, $^{\\\\dagger}p$ < 0.1, *$p$ < 0.05, ",
                          "**$p$ < 0.01, ***$p$ < 0.001. ",
         threeparttable = TRUE,
         footnote_as_chunk = TRUE,
         escape = FALSE) |>
landscape()
```

 Table S6. Correlations between XXXXXX

Age Represent S.		Age	Health		Self-perceived conditions							Current/last partner perception					Perceived context violence				
The control of the co		Age		happi-	financial	money		confi-			Masc.	Dom.	Attr.					Safety	of		
. 1		-0.03																			
P. Market 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		-0.05	-0.2***																		
Table 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-0.1 [†]	-0.06	0.59***																	
Table 1	urity				0.00***																
. Age	itrol																				
Hidner For the property of the			-0.16**				0.87***														
See 1. Substitute 1. Substitu	fidence		0.25***																		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		-0.06	0.25***	0.75***	0.49***	0.53***	0.84***	0.93***													
se. 0.14* -0.1* 0.17** 0.18** 0.18** 0.18** 0.21** 0.22*** 0.22** 0.22** 0.22** 0.22** 0.18** 0.72*** m. 0.05 -0.08 0.13* 0.17** 0.14* 0.17** 0.15** 0.19** 0.18** 0.19** 0.23*** 0.18** 0.78*** 0.6*** tr. 0.13* -0.02 -0.02 0.19** 0.01 0.06 0.22** 0.21** 0.21** 0.19** 0.12** 0.04 0.04 -0.07 try safety 0.02 -0.01 0.17** 0.02 0.04 0.12* 0.09 0.09 0.06 0.03 0.02 0.03 safety 0.02 -0.01 0.17** 0.02 0.00 0.12* 0.09 0.09 0.06 0.03 0.02 0.03 safety 0.01* -0.04 0.12* -0.08 0.00 0.12* 0.09 0.09 0.06 0.03 0.02 0.03 safety 0.01* -0.04 0.12* -0.08 0.00 0.12* 0.09 0.09 0.06 0.03 0.02 0.03 safety 0.06 0.06 0.06 0.16** 0.00 0.01** 0.01 0.00 0.01** 0.18** 0.19** 0.19** 0.19** 0.19** 0.19** 0.19** 0.19** 0.10**		-0.02	_	0.69***	0.45***	0.45***	0.68***	0.72***	0.73***												
tr. 0.13* 0.05 0.17** 0.18** 0.19** 0.18** 0.19** 0.18** 0.19** 0.21*** 0.21** 0.17** 0.04 0.04 -0.07 intry 0.02 -0.0 0.19** 0.01 0.06 0.22*** 0.21*** 0.21** 0.17** 0.04 0.04 -0.07 intry 0.02 -0.01 0.17** 0.02 0.04 0.21*** 0.19** 0.19** 0.19** 0.19** 0.10** 0.06 0.03 0.08 0.82*** intry safety 0.02 0.01 0.17** 0.02 0.04 0.21*** 0.19** 0.19** 0.19** 0.19** 0.07** 0.00 0.03 0.03 0.03 0.03 intry 0.11** 0.04 0.12** 0.08 0.00 0.12** 0.09 0.09 0.06 0.03 0.03 0.03 intry 0.11** 0.04 0.12** 0.08 0.04** 0.01** intry 0.06 0.06 0.06 0.16** 0.00 0.16** 0.02 0.02 0.19** 0.18** 0.17** 0.13** 0.00 0.04 0.08 0.64*** 0.81** 0.8*** 0.46*** intry 0.08 0.19** 0.10** 0.10** 0.05 0.01 0.05 0.09 0.08 0.03 0.01 0.09 0.03 0.01 0.06 0.03 intry 0.11** 0.09 0.12** intry 0.18** 0.18** 0.18** 0.18** 0.18** 0.18** 0.18** 0.18** 0.18** 0.18** 0.18** 0.19** 0.10** 0.10** 0.11** 0.11*	asc.	0.14*	-0.1 [†]	0.17**	0.18**	0.18**	0.21***	0.22***	0.25***	0.2***											
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		0.05	-0.08	0.13*	0.17**	0.14*	0.17**	0.15**	0.19**	0.12*	0.72***										
Tety ty safety 0.02 -0.01 0.17* 0.02 0.04 0.21*** 0.19** 0.19** 0.17** -0.06 0.03 -0.08 0.82*** Tety safety 0.02 -0.01 0.17* -0.08 0.00 0.12* 0.09 0.09 0.06 0.03 0.02 -0.03 0.32*** 0.32*** Tety safety 0.01 -0.07 -0.03 0.01 -0.03 -0.01 0.00 0.12* 0.09 0.09 0.06 0.03 0.02 -0.03 0.32*** Tety safety 0.02 -0.03 0.32*** Tety safety 0.01 -0.07 -0.03 0.01 -0.03 0.01 0.00 0.09** 0.00** Tety safety 0.02 0.09** 0.00** Tety 0.08 0.08*** Tety 0.08 0.06*** Tety 0.08 0.08*** Tety 0.08*			-0.05	0.17**	0.18**		0.18**	0.19**	0.23***	0.18**											
sighbor. 0.11	fety																				
fety me safety 0.01 -0.7 -0.03 0.01 -0.03 -0.01 0.00 -0.03 -0.03 0.03 0.01 -0.04 0.32*** interfety 0.06 -0.06 0.16** -0.02 0.02 0.19** 0.18** 0.17** 0.13* 0.00 0.04 -0.08 0.64*** 0.61*** 0.88** 0.46*** equency of -0.11 0.10 -0.03 0.01 -0.05 -0.09 -0.09 -0.01 0.09 -0.02 -0.02 0.00 0.04 0.05 0.11 0.09 0.12* bery elementy 0.19** 0.06 -0.03 0.00 0.04 0.05 0.01 0.05 0.09 0.08 0.00 0.04 0.05 0.11 0.09 0.12* bery elementy 0.19** 0.06 0.09 0.08 0.09 0.08 0.00 0.00 0.00 0.00				0.17**											0.22***						
Color Colo		0.11	-0.04	0.12**	-0.08	0.00	0.12*	0.09	0.09	0.06	0.03	0.02	-0.03	0.32***	0.32***						
fiety $0.06 - 0.06 - 0.06 - 0.16^* - 0.02 - 0.02 - 0.19^* - 0.18^* - 0.18^* - 0.18^* - 0.18^* - 0.18^* - 0.18^* - 0.00 - 0.04 - 0.08 - 0.04^* - 0.08 - 0.64^{***} - 0.68^{***} - 0.88^{***} - 0.46^{****}$ bety tysical 0.19^* 0.06 $- 0.03$ 0.00 $- 0.04$ $- 0.01$ $- 0.08$ $- 0.08$ $- 0.03$ $- 0.03$ $- 0.01$ $- 0.06$ $- 0.07$ $- 0.04$ $- 0.05$ $- 0.01$ $- 0.06$ $- 0.09$ cleans at al 0.02 $- 0.05$ $- 0.09$ $- 0.08$ $- 0.08$ $- 0.03$ $- 0.04$ $- 0.07$ $- 0.08$	ome safety	0.01	-0.07	-0.03	0.01	-0.03	-0.01	0.00	-0.03	-0.03	0.03	0.01	-0.04			0.32***					
requency of -0.11	ıfety	0.06	-0.06	0.16**	-0.02	0.02	0.19**	0.18**	0.17**	0.13*	0.00	0.04	-0.08	0.64***	0.61***	0.8***	0.46***				
uysical 0.19** 0.06 -0.03 0.00 -0.04 -0.01 -0.08 -0.08 -0.03 -0.03 0.01 -0.06 0.07 0.04 0.05 0.01 0.06 0.00 elence xual 0.02 -0.05 0.09 0.08 0.02 0.08 0.03 0.04 0.07 0.03 0.08 0.07 0.04 0.09 -0.03 -0.08 -0.01 0.06 0.18** elence fidelity 0.2*** 0.03 -0.03 -0.07 -0.05 0.06 0.04 -0.02 -0.05 0.13* 0.08 0.06 0.09 0.08 0.09 -0.02 0.09 -0.01 0.25*** 0.00	equency of	-0.11^{\dagger}		-0.03								-0.02	0.00		0.05		0.09	0.12*			
xual 0.02 -0.05 0.09 0.08 0.02 0.08 0.04 0.07 0.03 0.08 0.07 0.04 0.09 -0.03 -0.08 -0.01 0.06 $0.18**$ sledity $0.2***$ 0.03 -0.03 -0.07 -0.05 0.04 -0.02 -0.05 $0.13*$ 0.08 0.06 0.09 0.08 0.09 -0.02 0.09 -0.01 $0.25***$ 0.05	nysical	0.19**	0.06	-0.03	0.00	-0.04	-0.01	-0.08	-0.08	-0.03	-0.03	0.01	-0.06	0.07	0.04	0.05	0.01	0.06	0.00		
idelity 0.2*** 0.03 -0.03 -0.07 -0.05 0.06 0.04 -0.02 -0.05 0.13* 0.08 0.06 0.09 0.08 0.09 -0.02 0.09 -0.01 0.25*** 0.09		0.02	-0.05	0.00	0.00	0.00				0.05		0.08	0.07	0.04	0.00	0.02	0.08	0.01	0.00	0.10**	
				0.09	0.08	0.02	0.08	0.03	0.04	0.07	0.03	0.00	0.01	0.04	0.09	-0.03	-0.08	-0.01	0.06	0.18***	
	olence fidelity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	lence idelity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	0.01
	lence idelity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	delity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	delity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	ence delity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	ence delity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	lence idelity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	lence idelity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	lence idelity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	ence delity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	ence delity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	ence delity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	delity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	lence idelity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	olence fidelity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	olence fidelity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	olence fidelity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	olence fidelity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	lence idelity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	lence idelity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	
	olence fidelity	0.2***	0.03	-0.03	-0.07	-0.05	0.06	0.04	-0.02	-0.05	0.13*	0.08	0.06	0.09	0.08	0.09	-0.02	0.09	-0.01	0.25***	

2.4.3 Correlations between fixations, subjective evaluations of stimuli, partner perceptions, and violence

```
dat_main_corr <- dat |>
  select(ID, Condition, Relationship,
         TFD, DFF, NF,
        Masculinity, Attractiveness,
         Partner_attractiveness:Partner_masculinity,
         ends_with("_safety"), Freq_robery,
         starts_with("Freq_partner_")) |>
  group_by(ID, Condition, Relationship) |>
  summarise_all(mean)
dat_main_corr_high <- dat_main_corr |>
 filter(Condition == "High") |>
 ungroup() |>
  select(TFD:Freq_partner_infidelity) |>
 rename_with(~str_replace_all(., "_", " ")) |>
  rename_with(~str_replace_all(., "Freq", "Frequency of")) |>
  rename_with(~str_replace_all(., "Frequency of partner", "Partner")) |>
  rename_with(~str_replace_all(., "Perceived", "")) |>
  rename_with(~str_replace_all(., "asculinity", "asc.")) |>
  rename_with(~str_replace_all(., "ttractiveness", "ttr.")) |>
 rename_with(~str_replace_all(., "ominance", "om.")) |>
 rename_with(~str_replace_all(., " neighborhood", "Neighbor.")) |>
 rename_with(~str_to_sentence(.)) |>
   rename("TFD" = "Tfd",
         "NF" = "Nf") |>
 rename with(~str trim(.)) |>
  corr.stars() |>
  rownames to column(var = " ") |>
 dplyr::slice(-1)
dat_main_corr_low <- dat_main_corr |>
  filter(Condition == "High") |>
 ungroup() |>
 select(TFD:Freq_partner_infidelity) |>
  rename_with(~str_replace_all(., "_", " ")) |>
 rename_with(~str_replace_all(., "Freq", "Frequency of")) |>
  rename_with(~str_replace_all(., "Frequency of partner", "Partner")) |>
  rename_with(~str_replace_all(., "Perceived", "")) |>
  rename_with(~str_replace_all(., "asculinity", "asc.")) |>
 rename_with(~str_replace_all(., "ttractiveness", "ttr.")) |>
  rename_with(~str_replace_all(., "ominance", "om.")) |>
 rename_with(~str_replace_all(., " neighborhood", "Neighbor.")) |>
 rename_with(~str_to_sentence(.)) |>
   rename("TFD" = "Tfd",
         "DFF" = "Dff",
         "NF" = "Nf") |>
  rename_with(~str_trim(.)) |>
  corr.stars() |>
  rownames_to_column(var = " ") |>
  dplyr::slice(-1)
dat_main_corr_high |>
```

```
bind_rows(dat_main_corr_low) |>
kable(digits = 2,
     booktabs = TRUE,
     align = c("l", rep("c", 20)),
     linesep = "",
     caption = "Correlations between fixations, subjective evaluations of stimuli,
     partner perceptions, and violence by Condition",
     escape = FALSE) |>
kable_styling(latex_options = c("HOLD_position"),
              font_size = 4.2) |>
column_spec(1, width = "2.5cm") |>
column_spec(2:21, width = "0.84cm") |>
add_header_above(c(" ",
                   "Fixations" = 3,
                   "Stimulus ratings" = 2,
                   "Current/last partner\nperception" = 3,
                   "Perceived context\nviolence" = 7,
                   "Frequency of\npartner violence" = 2),
                 bold = TRUE) |>
pack_rows("Condition: High", 1, 17,
         hline_after = TRUE) |>
pack_rows("Condition: Low", 18, 34,
         hline_after = TRUE, hline_before = TRUE) |>
footnote(general = paste0("Values represent Pearson correlation coefficients ($r$). ",
                          NF = Number of Fixations; masc. = masculinity;
                          "For significance, ^{{\\\}} < 0.1, *$p$ < 0.05, ",
                          "**$p$ < 0.01, ***$p$ < 0.001. ",
                          "Significant correlations are in bold."),
         threeparttable = TRUE,
        footnote_as_chunk = TRUE,
        escape = FALSE) |>
landscape()
```

Table S7. Correlations between fixations, subjective evaluations of stimuli, partner perceptions, and violence by Condition

		Fixations		Stimulu	s ratings	Cur	rrent/last par perception	tner			Pe	rceived cont violence	ext				ency of violence
	TFD	DFF	NF	Masc.	Attr.	Partner attr.	Partner dom.	Partner masc.	Country safety	City safety	Neighbor. safety	Home safety	Safety	Condition physical safety	Frequency of robery	Partner physical violence	Partne sexual violenc
Condition: High																	
DFF	-0.03																
NF	0.82***	-0.62***															
Masc.	0.13*	0.07	0.06														
Attr.	0.02	-0.13*	0.08	0.49***													
Partner attr.	-0.04	0.05	-0.05	0.00	-0.01												
Partner dom.	-0.07	-0.03	-0.05	-0.04	-0.01	0.63***											
Partner masc.	-0.07	0.08	-0.11^{\dagger}	-0.01	-0.03	0.75***	0.71***										
Country safety	-0.05	-0.05	-0.08	0.14*	0.05	-0.06	-0.03	-0.05									
City safety	-0.03	-0.08	-0.03	0.12*	0.00	-0.06	0.02	-0.02	0.82***								
Neighbor, safety	-0.1 [†]	0.00	-0.1 [†]	0.18**	0.24***	0.01	0.00	0.05	0.38***	0.34***							
Home safety	-0.09	0.08	-0.07	0.04	0.12*	-0.11*	-0.12*	-0.05	-0.16**	-0.21***	0.34***						
Safety	-0.11*	-0.01	-0.11*	0.18**	0.17**	-0.09^{\dagger}	-0.06	-0.03	0.68***	0.63***	0.8***	0.51***					
Condition physical safety	0.01	0.05	0.00	0.08	0.00	0.09†	0.07	0.1^{\dagger}	-0.03	-0.11*	0.02	-0.11^{\dagger}	-0.09				
Frequency of robery	-0.01	0.08	-0.04	0.05	0.13*	-0.04	-0.08	-0.03	0.08	0.06	0.18**	0.15**	0.19***	-0.09			
Partner physical violence	0.09^{\dagger}	-0.12^{\dagger}	0.08	0.08	0.00	0.00	0.06	0.01	0.13*	0.14**	0.17**	0.08	0.2***	-0.02	-0.03		
Partner sexual violence	0.12*	-0.07	0.15**	-0.04	0.01	0.07	0.1^{\dagger}	0.05	0.02	0.1^{\dagger}	-0.01	-0.07	0.00	0.05	-0.02	0.09^{\dagger}	
Partner infidelity	-0.02	0.07	-0.02	-0.05	0.04	0.08	0.06	0.08	0.12*	0.07	0.18**	0.02	0.14**	-0.01	0.01	0.13*	-0.03
Condition: Low																	
DFF	-0.03																
NF	0.82***	-0.62***															
Masc.	0.13*	0.07	0.06														
Attr.	0.02	-0.13*	0.08	0.49***													
Partner attr.	-0.04	0.05	-0.05	0.00	-0.01												
Partner dom.	-0.07	-0.03	-0.05	-0.04	-0.01	0.63***											
Partner masc.	-0.07	0.08	-0.11^{\dagger}	-0.01	-0.03	0.75***	0.71***										
Country safety	-0.05	-0.05	-0.08	0.14*	0.05	-0.06	-0.03	-0.05									
City safety	-0.03	-0.08	-0.03	0.12*	0.00	-0.06	0.02	-0.02	0.82***								
Neighbor, safety	-0.1 [†]	0.00	-0.1 [†]	0.18**	0.24***	0.01	0.00	0.05	0.38***	0.34***							
Home safety	-0.09	0.08	-0.07	0.04	0.12*	-0.11*	-0.12*	-0.05	-0.16**	-0.21***	0.34***						
Safety	-0.11*	-0.01	-0.11*	0.18**	0.17**	-0.09 [†]	-0.06	-0.03	0.68***	0.63***	0.8***	0.51***					
Condition physical safety	0.01	0.05	0.00	0.08	0.00	0.09	0.07	0.1 [†]	-0.03	-0.11*	0.02	-0.11 [†]	-0.09				
Frequency of robery	-0.01	0.08	-0.04	0.05	0.13*	-0.04	-0.08	-0.03	0.08	0.06	0.18**	0.15**	0.19***	-0.09			
Partner physical violence	0.09 [†]	-0.12 [†]	0.08	0.08	0.00	0.00	0.06	0.01	0.13*	0.14**	0.17**	0.08	0.19	-0.09	-0.03		
Partner sexual violence	0.12*	-0.12	0.15**	-0.04	0.00	0.07	0.06 0.1 [†]	0.05	0.02	0.14 · · · · · · · · · · · · · · · · · · ·	-0.01	-0.07	0.00	0.05	-0.03	0.09^{\dagger}	
Partner sexual violence Partner infidelity	-0.02	0.07	-0.02	-0.04	0.01	0.07	0.1	0.08	0.02	0.1	0.18**	-0.07	0.14**	0.05	0.02	0.13*	-0.03

Note: Values represent Pearson correlation coefficients (r). TDF = Total Fixation Duration; DFF = Duration of First Fixation; NF = Number of Fixations; masc. = masculinity; dom. = dominance; attr. = attractiveness; neighbor. = neighborhood. For significance, $^{\dagger}p < 0.01$, $^{*}p < 0.05$, $^{*}p < 0.01$, $^{*}p < 0.01$, $^{*}p < 0.01$. Significant correlations are in bold.

2.4.4 Correlations between partner violence and difference scores between responses to masculinized and feminized stimuli

```
dat_choice_dif <- dat |>
 mutate(Choice = as.numeric(recode(Choice,
                                    "Yes" = "1",
                                    "No" = "O"))) >
  group_by(ID, Sexual_dimorphism, Relationship, Condition) |>
  summarise(Choice = sum(Choice)) |>
 group_by(ID, Sexual_dimorphism, Relationship, Condition) |>
 summarise(Choice_count = sum(Choice)) |>
 ungroup() |>
  group by(ID, Relationship, Condition) |>
 summarise(Choice_dif = Choice_count[Sexual_dimorphism == "Masculinized"] -
              Choice_count[Sexual_dimorphism == "Feminized"])
dat_dif_short <- dat_dif |>
 group_by(ID, Relationship, Condition) |>
  summarise(Freq_partner_physical_violence = mean(Freq_partner_physical_violence),
            Freq_partner_sexual_violence = mean(Freq_partner_sexual_violence),
            Freq_partner_infidelity = mean(Freq_partner_infidelity),
            Men_perceived_as_dangerous = mean(Men_perceived_as_dangerous),
            DFF_dif = mean(DFF_dif),
            TFD_dif = mean(TFD_dif),
            NF_dif = mean(NF_dif),
            Attr_dif = mean(Attr_dif),
           Masc_dif = mean(Masc_dif)) |>
  left_join(dat_choice_dif |>
             select(ID, Relationship, Condition, Choice_dif),
  rename("PPV" = "Freq_partner_physical_violence",
         "PSV" = "Freq_partner_sexual_violence",
         "PI" = "Freq_partner_infidelity",
         "MPD" = "Men_perceived_as_dangerous",
         "DFF" = "DFF_dif",
         "TFD" = "TFD_dif",
 ungroup()
dat dif short |>
  filter(Relationship == "Short term" & Condition == "Low") |>
  select(where(is.numeric)) |>
  corr.stars() |>
  rownames to column(var = " ") |>
 dplyr::slice(-1) |>
 bind rows(dat dif short |>
             filter(Relationship == "Long term" & Condition == "Low") |>
              select(where(is.numeric)) |>
              corr.stars() |>
              rownames_to_column(var = " ") |>
             dplyr::slice(-1)) |>
  bind_rows(dat_dif_short |>
              filter(Relationship == "Short term" & Condition == "High") |>
```

```
select(where(is.numeric)) |>
            corr.stars() |>
            rownames_to_column(var = " ") |>
            dplyr::slice(-1)) |>
bind_rows(dat_dif_short |>
            filter(Relationship == "Long term" & Condition == "High") |>
            select(where(is.numeric)) |>
            corr.stars() |>
            rownames_to_column(var = " ") |>
            dplyr::slice(-1)) |>
kable(digits = 2,
      booktabs = TRUE,
      align = c("l", rep("c", 10)),
      linesep = "",
      caption = "Two tables created by knitr::kables().",
      escape = FALSE) |>
kable_styling(latex_options = c("HOLD_position", "scale_down")) |>
add_header_above(c(" ",
                   = 4
                 bold = TRUE) |>
pack_rows("Low condition, short-term relationship", 1, 9,
          hline_after = TRUE) |>
pack_rows("Low condition, long-term relationship", 10, 18,
          hline_after = TRUE, hline_before = TRUE) |>
pack_rows("High condition, short-term relationship", 19, 27,
          hline_after = TRUE, hline_before = TRUE) |>
pack_rows("High condition, long-term relationship", 28, 36,
          hline_after = TRUE, hline_before = TRUE) |>
footnote(general = paste0("Values represent Pearson correlation coefficients ($r$). ",
                          "PPV = Frequency of partner physical violence;
                          PSV = Frequency of partner sexual violence;
                          PI = Frequency of partner infidelity;
                          MPD = Men perceived as dangerous;
                          NF = Number of Fixations;
                          "For variables that were evaluated in response to each stimulus
                          (DFF, TFD, NF, Attr., Masc. and Choice), correlations are
                          with the difference between responses to masculinized minus
                          feminized stimuli, so that higher (and possitive values) indicate
                          "For significance, $^{\\\dagger}p$ < 0.1, *$p$ < 0.05, ",
                          "**$p$ < 0.01, ***$p$ < 0.001. ",
                          "Significant correlations are in bold."),
         threeparttable = TRUE,
         footnote_as_chunk = TRUE,
         escape = FALSE)
```

Table S8. Two tables created by knitr::kables().

							ference sci inized - fe		
	PPV	PSV	PΙ	MPD	DFF	TFD	NF	Attr.	Masc.
Low cond	dition, sho	rt-term	relation	nship					
PSV	0.31***								
$_{ m PI}$	0.38***	0.07							
MPD	0.02	0.22*	-0.08						
$_{ m DFF}$	-0.01	-0.04	0.00	0.03					
TFD	0.05	-0.07	0.11	-0.12	-0.05				
NF	0.09	-0.06	0.10	-0.13	-0.13	0.96***			
Attr.	0.02	-0.02	0.07	-0.17^{\dagger}	-0.17	0.21*	0.23*		
Masc.	-0.05	0.03	0.09	0.03	-0.06	0.13	0.13	0.57***	
Choice	0.15^{\dagger}	0.01	0.11	-0.03	-0.06	0.74***	0.73***	0.26**	0.15^{\dagger}
	dition, lon	g-term	relations	ship					
PSV	0.31***								
PΙ	0.38***	0.07							
MPD	0.02	0.22*	-0.08	,					
$_{ m DFF}$	0.01	0.08	0.09	0.19^{\dagger}					
TFD	0.08	-0.13	0.00	-0.13	-0.03				
NF	0.11	-0.06	0.01	-0.19*	-0.13	0.95***			
Attr.	0.02	-0.02	0.07	-0.17^{\dagger}	0.00	0.24**	0.29**		
Masc.	-0.05	0.03	0.09	0.03	-0.03	-0.01	0.05	0.57***	
Choice	0.00	-0.03	-0.11	-0.03	-0.01	0.72***	0.67***	0.32***	0.06
	dition, sh	ort-tern	n relatio	nship					
PSV	0.09								
PI	0.13	-0.03							
MPD	0.12	0.09	0.15*						
DFF	0.01	-0.04	-0.08	-0.08					
TFD	-0.13^{\dagger}	-0.07	0.04	-0.10	0.10				
NF	-0.10	-0.06	0.05	-0.10	-0.03	0.96***			
Attr.	0.00	0.04	0.13^{\dagger}	-0.01	-0.14	0.26***	0.25**	a calcalcale	
Masc.	-0.08	0.11	0.08	0.01	-0.01	0.16*	0.14^{\dagger}	0.54***	0.40%
Choice	-0.10	-0.01	0.03	-0.07	0.14	0.74***	0.71***	0.26***	0.18*
	dition, lor	ng-term	relation	ship					
PSV	0.09								
PI	0.13	-0.03	0 7 - 1						
MPD	0.12	0.09	0.15*	0.05					
DFF	-0.03	-0.05	0.10	-0.05	0.15				
TFD	-0.25**	-0.08	-0.02	-0.14^{\dagger}	0.15	o o maladadi			
NF	-0.19*	-0.07	-0.01	-0.12	0.04	0.95***	o ocalististi		
Attr.	0.00	0.04	0.13^{\dagger}	-0.01	0.17^{\dagger}	0.33***	0.29***	a w calcalcate	
Masc.	-0.08	0.11	0.08	0.01	0.13	0.09	0.05	0.54***	0.000
Choice	-0.22**	-0.01	0.02	-0.15^{\dagger}	0.25**	0.7***	0.64***	0.49***	0.23**

Note: Values represent Pearson correlation coefficients (r). PPV = Frequency of partner physical violence; PSV = Frequency of partner sexual violence; PI = Frequency of partner infidelity; MPD = Men perceived as dangerous; DFF = Duration of First Fixation; TDF = Total Fixation Duration; NF = Number of Fixations; attr. = attractiveness; masc. = masculinity. For variables that were evaluated in response to each stimulus (DFF, TFD, NF, Attr., Masc. and Choice), correlations are with the difference between responses to masculinized minus feminized stimuli, so that higher (and possitive values) indicate a stronger preference for masculinized stimuli. For significance, $^{\dagger}p < 0.1$, $^*p < 0.05$, $^{**}p < 0.01$, $^{***}p < 0.001$. Significant correlations are in bold.

3 Session info (for reproducibility)

library(pander)
pander(sessionInfo(), locale = FALSE)

R version 4.4.1 (2024-06-14) Platform: x86_64-pc-linux-gnu

attached base packages: stats4, stats, graphics, grDevices, utils, datasets, methods and base

 $\begin{array}{llll} \textbf{other attached packages:} & pander(v.0.6.5), & Hmisc(v.5.1-3), & effectsize(v.0.8.9), & bbmle(v.1.0.25.1), & gtools(v.3.9.5), \\ FactoMineR(v.2.11), & factoextra(v.1.0.7), & scales(v.1.3.0), & GGally(v.2.2.1), & performance(v.0.12.2), & kableExtra(v.1.4.0), & emmeans(v.1.10.3), & lmerTest(v.3.1-3), & lme4(v.1.1-35.5), & Matrix(v.1.7-0), & readxl(v.1.4.3), & gg-pubr(v.0.6.0), & lubridate(v.1.9.3), & forcats(v.1.0.0), & stringr(v.1.5.1), & dplyr(v.1.1.4), & purrr(v.1.0.2), & readr(v.2.1.5), \\ & tidyr(v.1.3.1), & tibble(v.3.2.1), & ggplot2(v.3.5.1), & tidyverse(v.2.0.0), & ggstats(v.0.6.0), & MASS(v.7.3-61), & car(v.3.1-2), \\ & carData(v.3.0-5) & \text{and} & knitr(v.1.48) & & & & & & & \\ \end{array}$

loaded via a namespace (and not attached): gridExtra(v.2.3), sandwich(v.3.1-0), rlang(v.1.1.4), magrittr(v.2.0.3), multcomp(v.1.4-26), compiler(v.4.4.1), systemfonts(v.1.1.0), vctrs(v.0.6.5), pkgconfig(v.2.0.3), fastmap(v.1.2.0), backports(v.1.5.0), labeling(v.0.4.3), utf8(v.1.2.4), rmarkdown(v.2.28), tzdb(v.0.4.0), nloptr(v.2.1.1), xfun(v.0.47), flashClust(v.1.01-2), highr(v.0.11), broom(v.1.0.6), cluster(v.2.1.6), R6(v.2.5.1), stringi(v.1.8.4), RColorBrewer(v.1.1-3), rpart(v.4.1.23), boot(v.1.3-30), cellranger(v.1.1.0), numDeriv(v.2016.8-1.1), estimability(v.1.5.1), Rcpp(v.1.0.13), bookdown(v.0.40), zoo(v.1.8-12), base64enc(v.0.1-3), parameters(v.0.22.0), nnet(v.7.3-19), splines(v.4.4.1), timechange(v.0.3.0), tidyselect(v.1.2.1), rstudioapi(v.0.16.0), abind(v.1.4-5), yaml(v.2.3.10), codetools(v.0.2-20), lattice(v.0.22-5), plyr(v.1.8.9), bayestestR(v.0.13.2), withr(v.3.0.1), coda(v.0.19-4.1), evaluate(v.0.24.0), foreign(v.0.8-86), survival(v.3.7-0), xml2(v.1.3.6), pillar(v.1.9.0), checkmate(v.2.3.2), DT(v.0.33), insight(v.0.20.2), generics(v.0.1.3), hms(v.1.1.3), munsell(v.0.5.1), minqa(v.1.2.7), table(v.1.8-4), leaps(v.3.2), glue(v.1.7.0), scatterplot3d(v.0.3-44), tools(v.4.4.1), data.table(v.1.15.4), ggsignif(v.0.6.4), mvtnorm(v.1.2-5), cowplot(v.1.1.3), grid(v.4.4.1), datawizard(v.0.12.2), bdsmatrix(v.1.3-7), colorspace(v.2.1-1), nlme(v.3.1-165), htmlTable(v.2.4.3), Formula(v.1.2-5), cli(v.3.6.3), fansi(v.1.0.6), viridisLite(v.0.4.2), svglite(v.2.1.3), gtable(v.0.3.5), rstatix(v.0.7.2), digest(v.0.6.37), ggrepel(v.0.9.5), TH.data(v.1.1-2), farver(v.2.1.2), htmlwidgets(v.1.6.4), htmltools(v.0.5.8.1), lifecycle(v.1.0.4) and multcompView(v.0.1-10)

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