

# Reporte de análisis — heart

## Distribución de clases

Clase	Conteo	Proporción (%)
0	164	54.13
1	55	18.15
2	36	11.88
3	35	11.55
4	13	4.29

## Métricas clave del dataset

cantidad_muestras	303
cantidad_atributos	13
cantidad_clases	5
clase_minima_real	4
clase_mayoritaria_real	0
n_min	13
n_max	164
ratio_desequilibrio_max	12.615384615384615
entropia_clases	1.279509620902046
tamano_efectivo_clases	3.5948764409992746
porcentaje_faltantes	0.0
porcentaje_duplicados	0.0
asimetria_mediana	0.5057957274757735
curtosis_mediana	-0.41381067241945146
porcentaje_variables_con_normalidad_no_rechazada	0.0
correlacion_absoluta_maxima	0.5775368177725992
porcentaje_pares_correlacion_mayor_0_9	0.0

rango_mediano_variables	3.0
rango_maximo_variables	438.0
sugerencia_escalado	MinMaxScaler

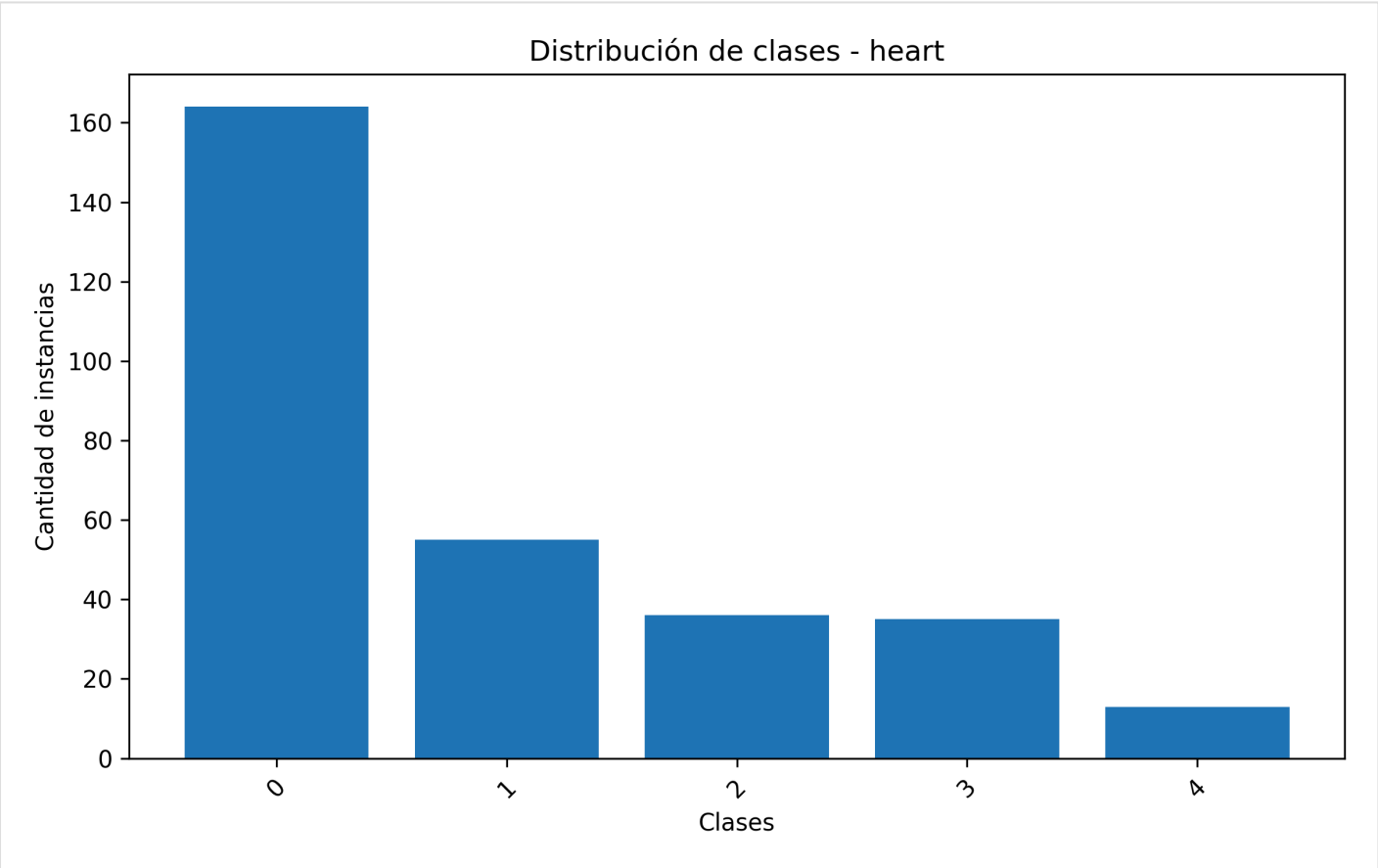
## PCA — Varianza explicada

PC1: 0.747 · PC1+PC2: 0.897 · PC1+PC2+PC3: 0.982

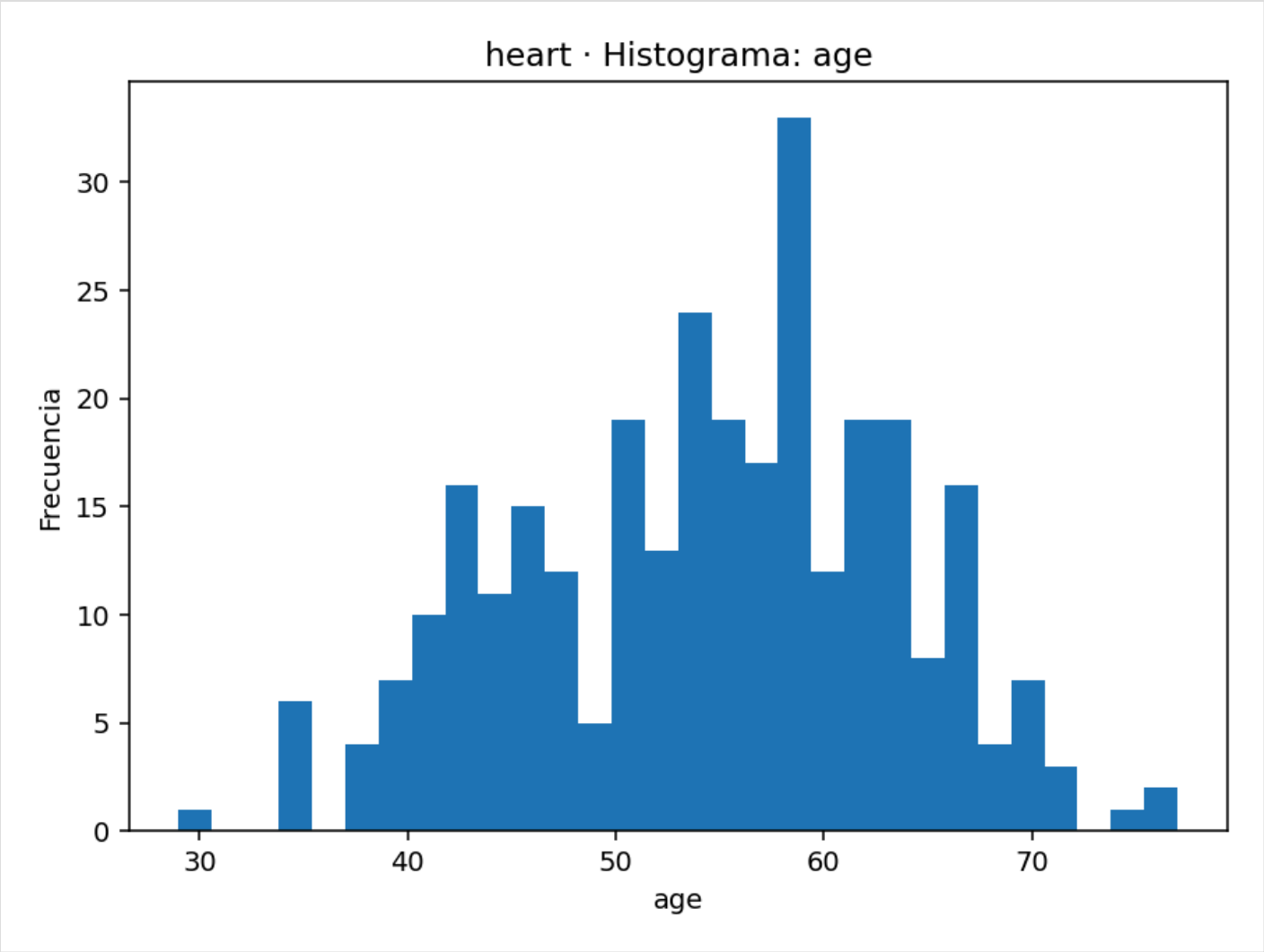
Componente	Varianza explicada
PC1	0.746501
PC2	0.150078
PC3	0.085112
PC4	0.016123
PC5	0.001022

## Figuras

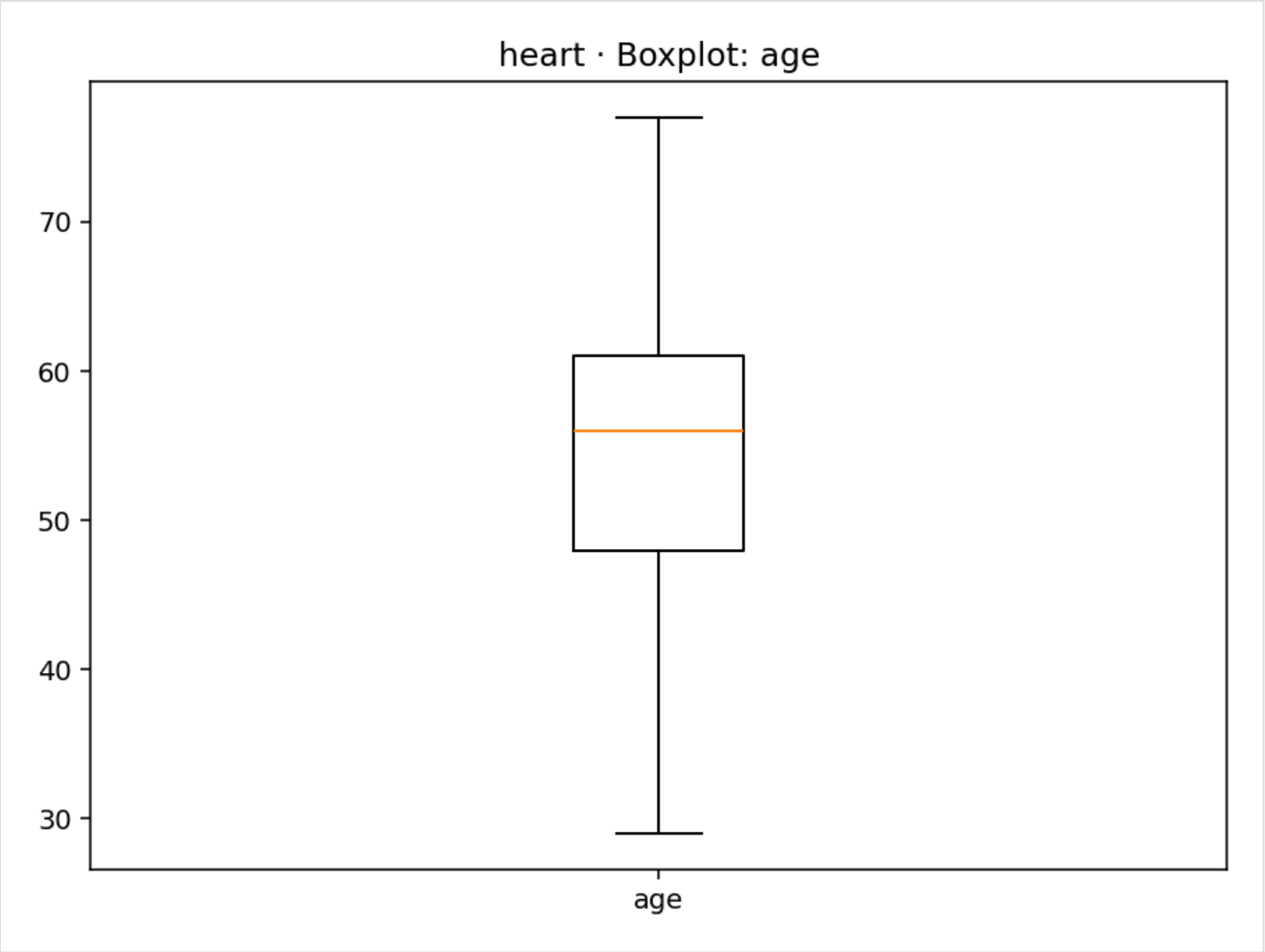
### Distribución de clases



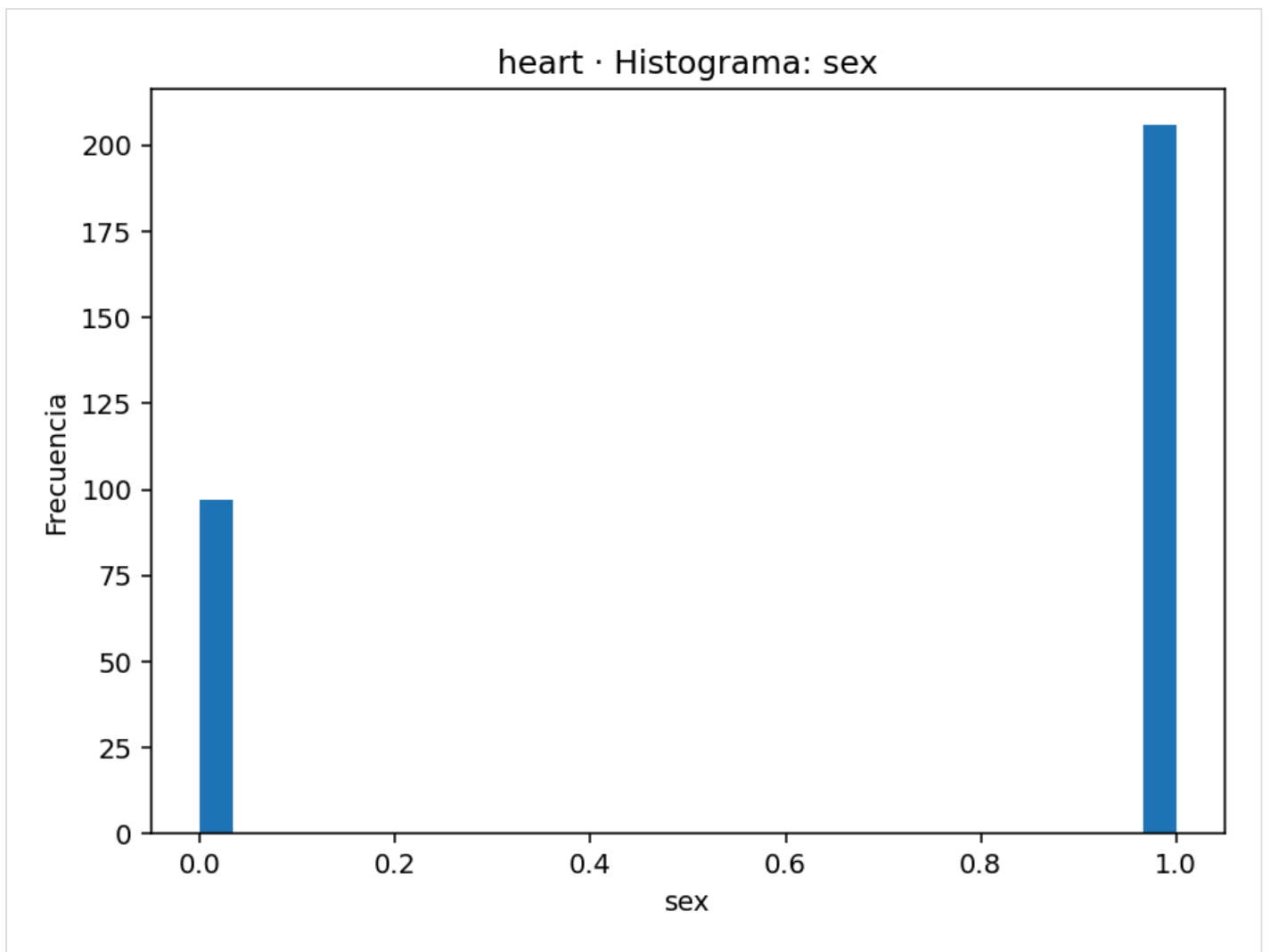
### Histograma: age



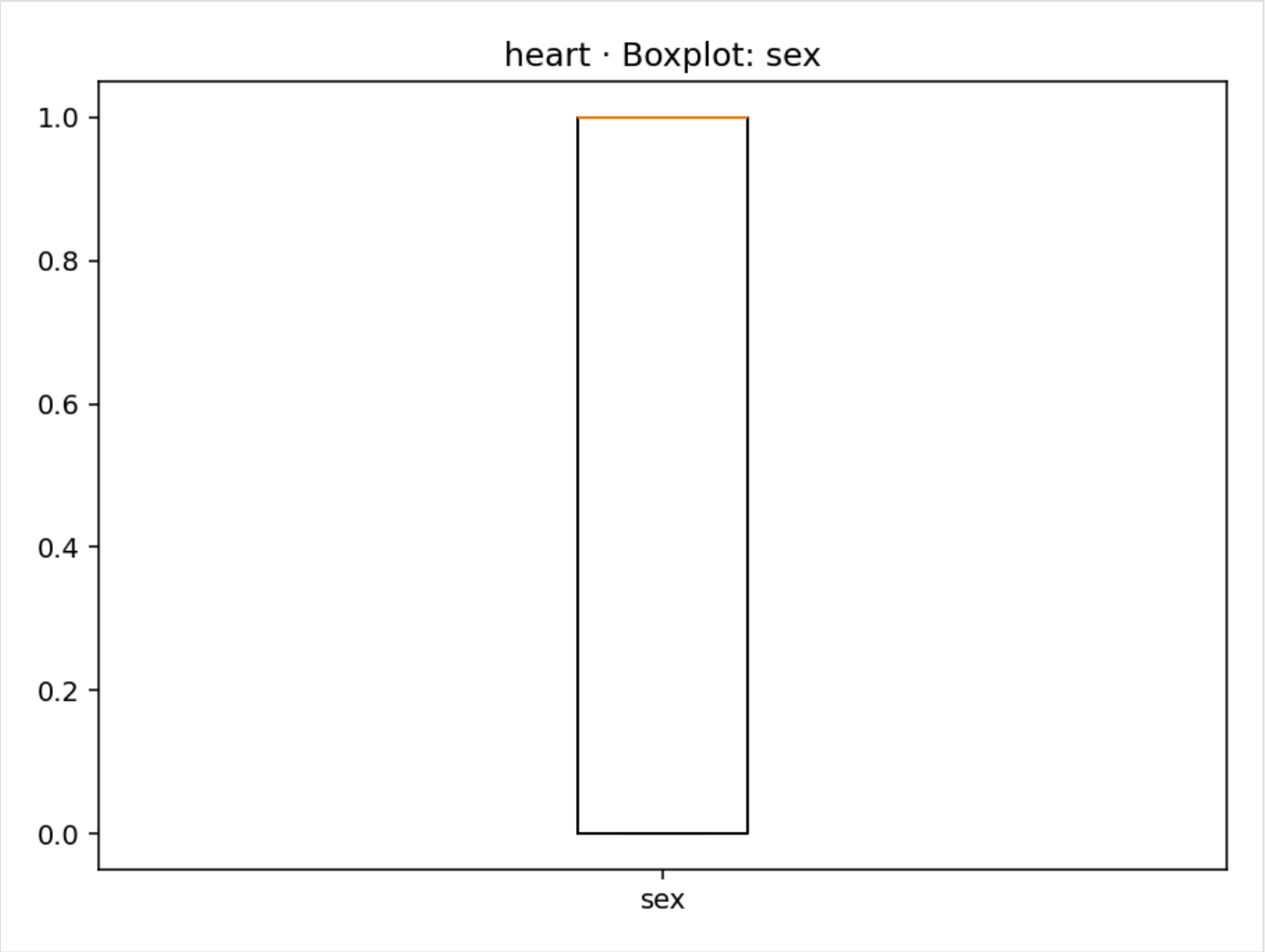
Boxplot: age



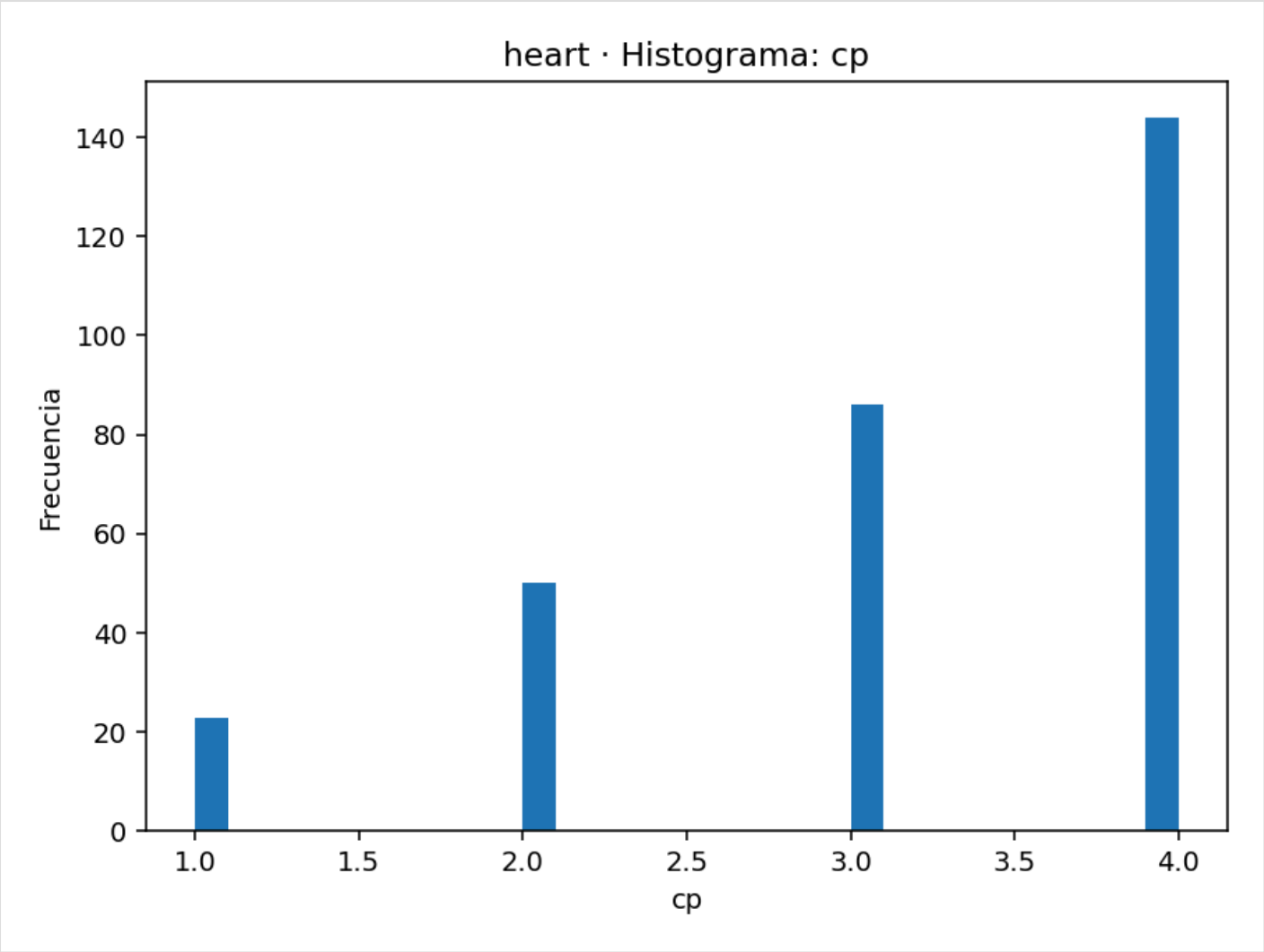
Histograma: sex



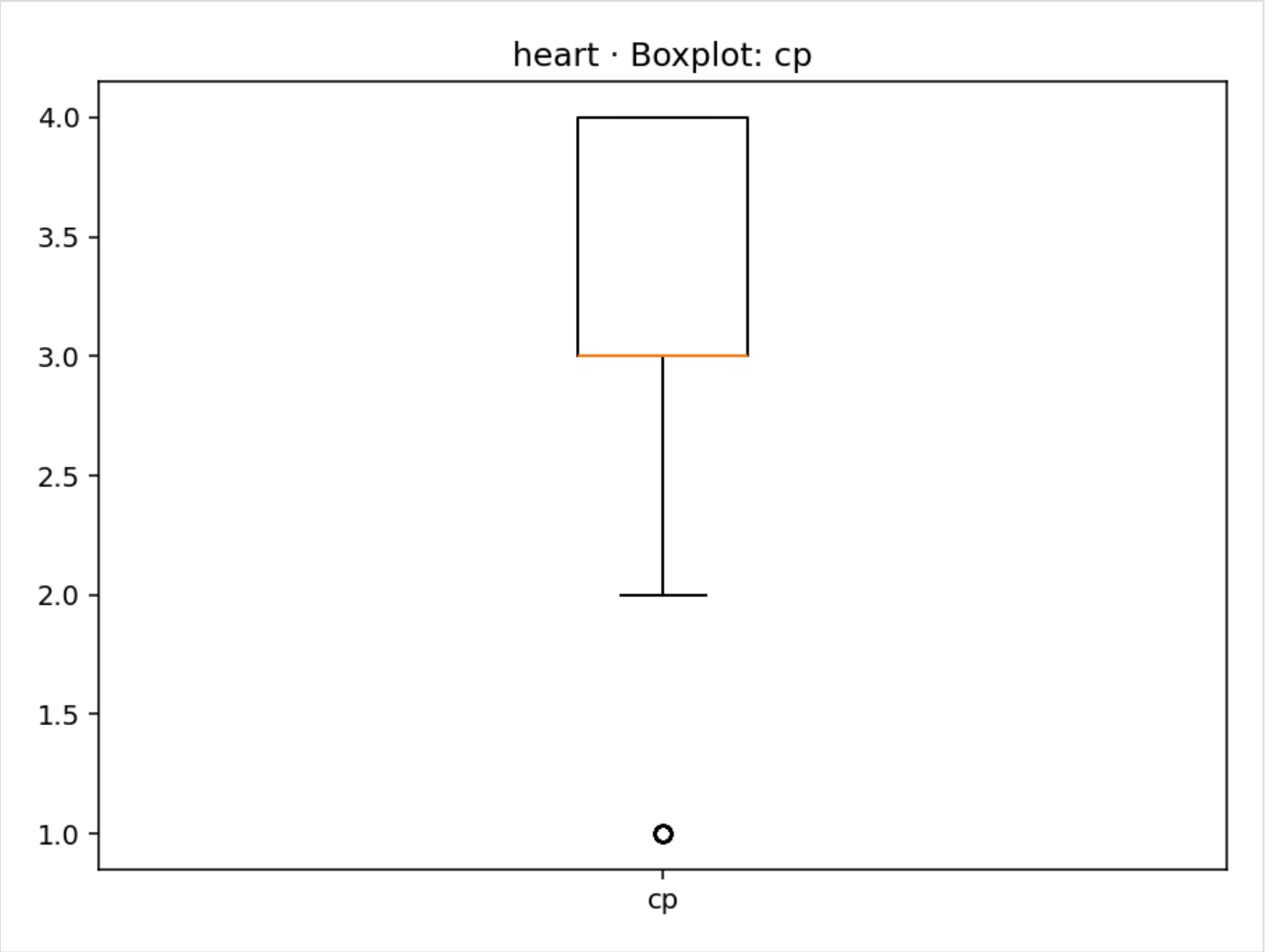
**Boxplot: sex**



Histograma: cp

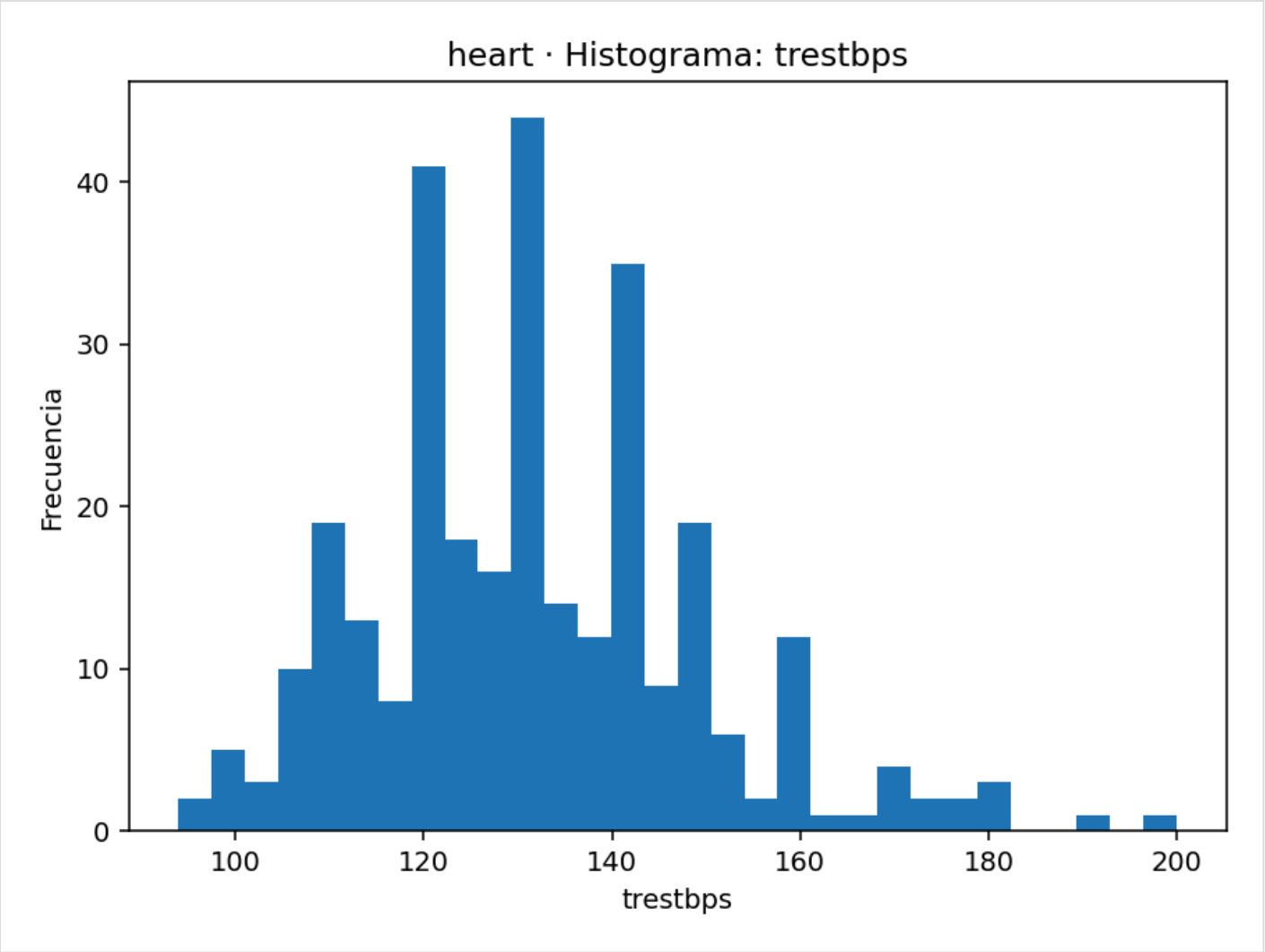


**Boxplot: cp**

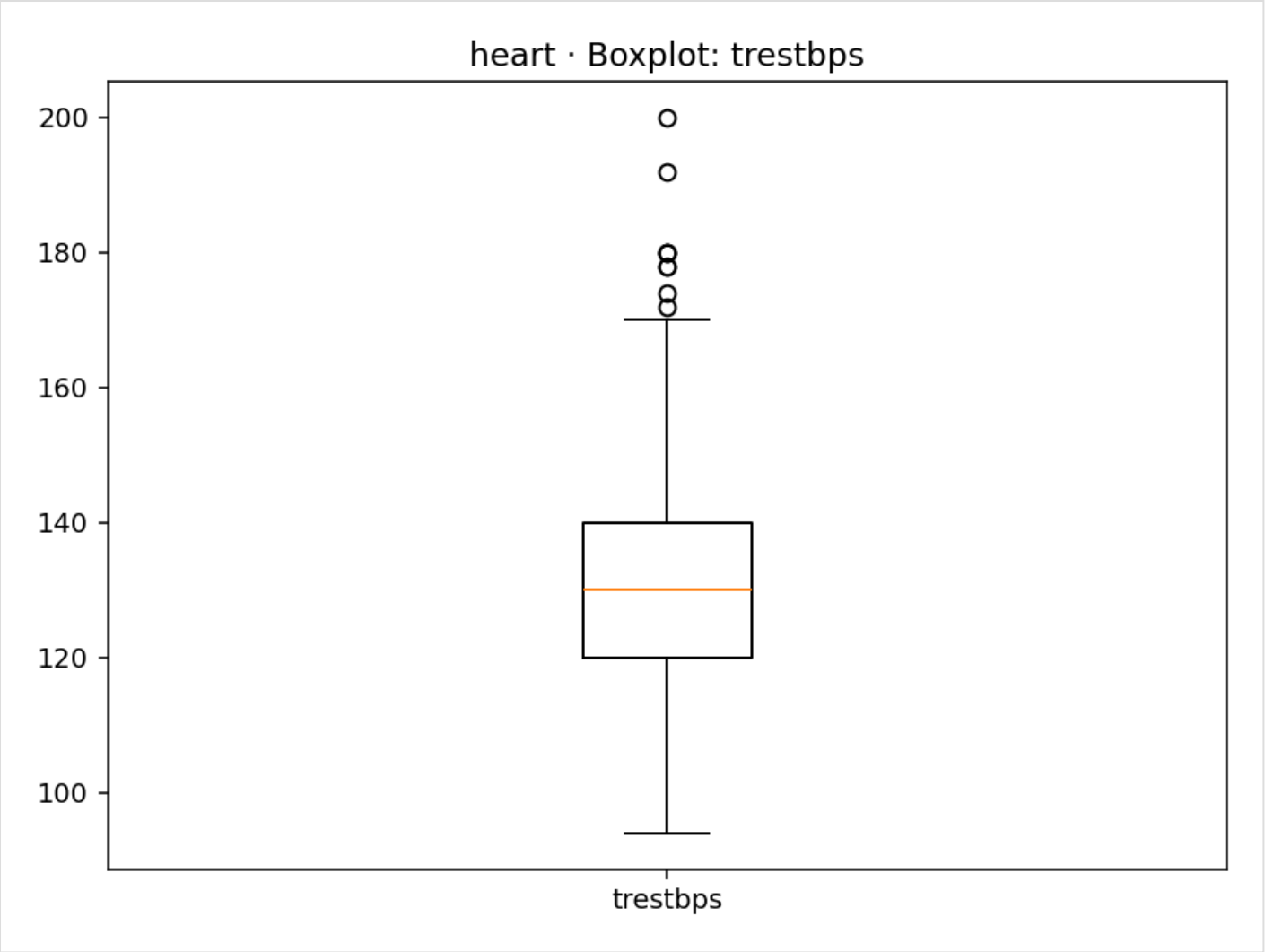


**Histograma: trestbps**

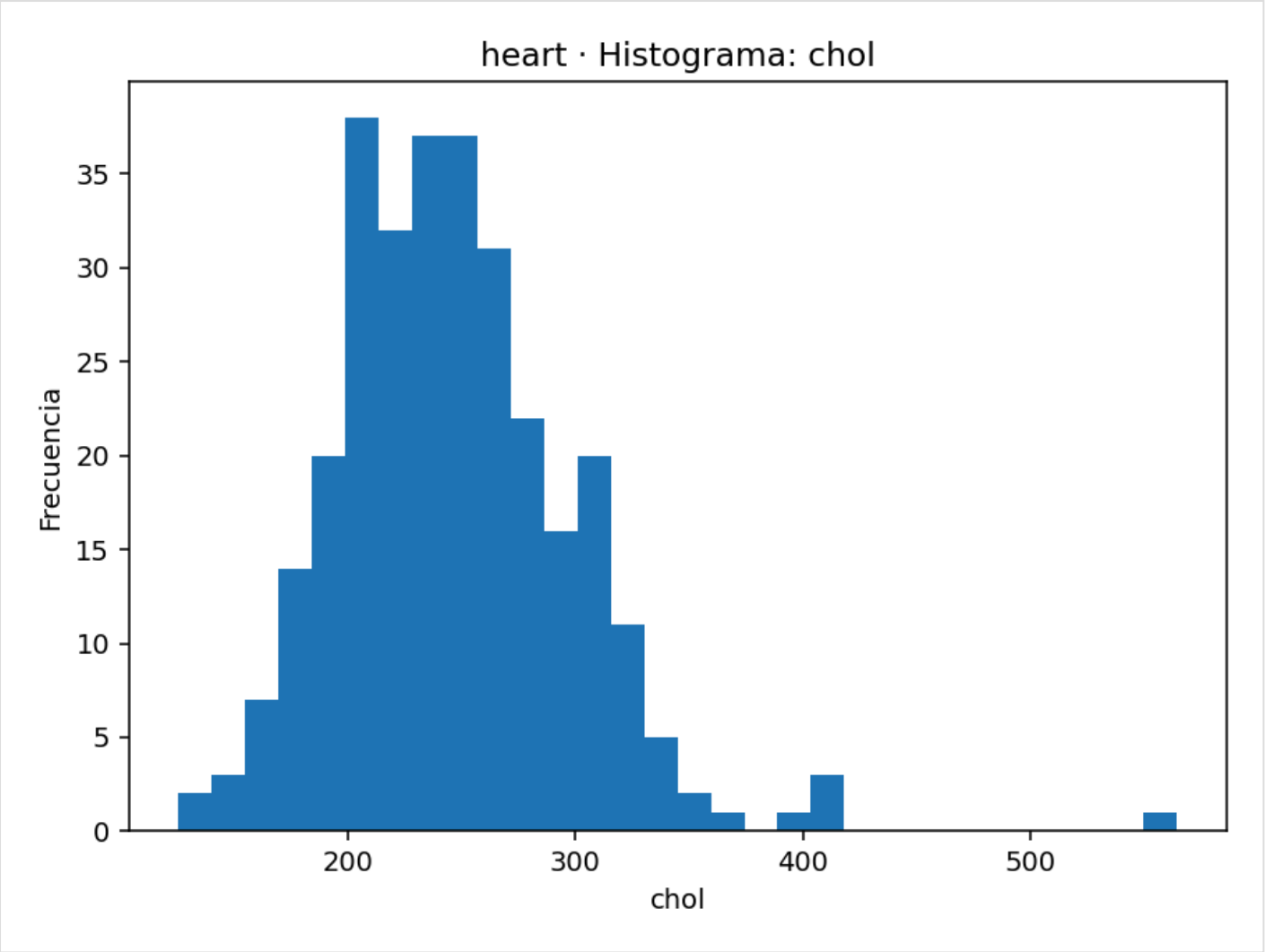




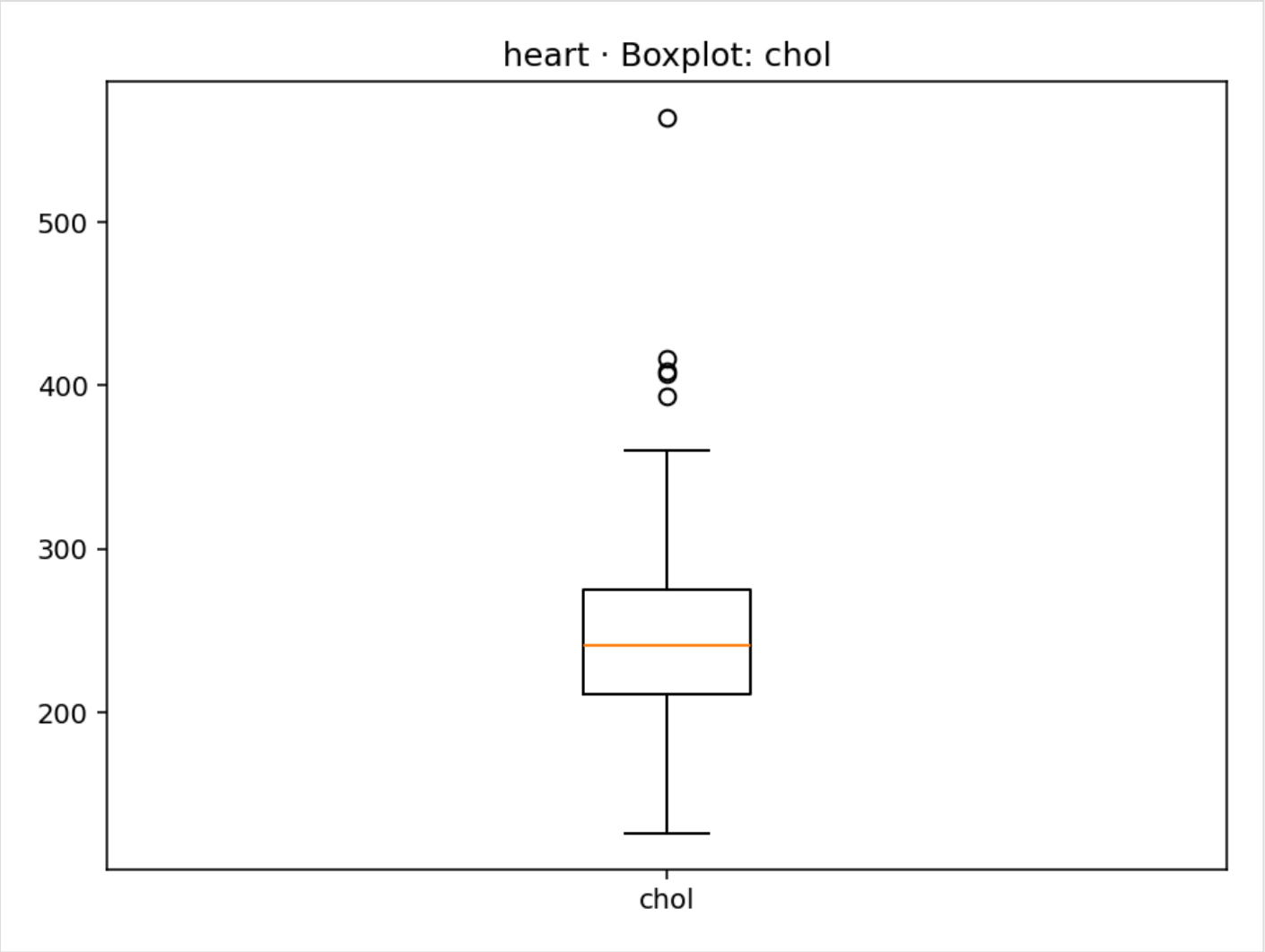
Boxplot: trestbps



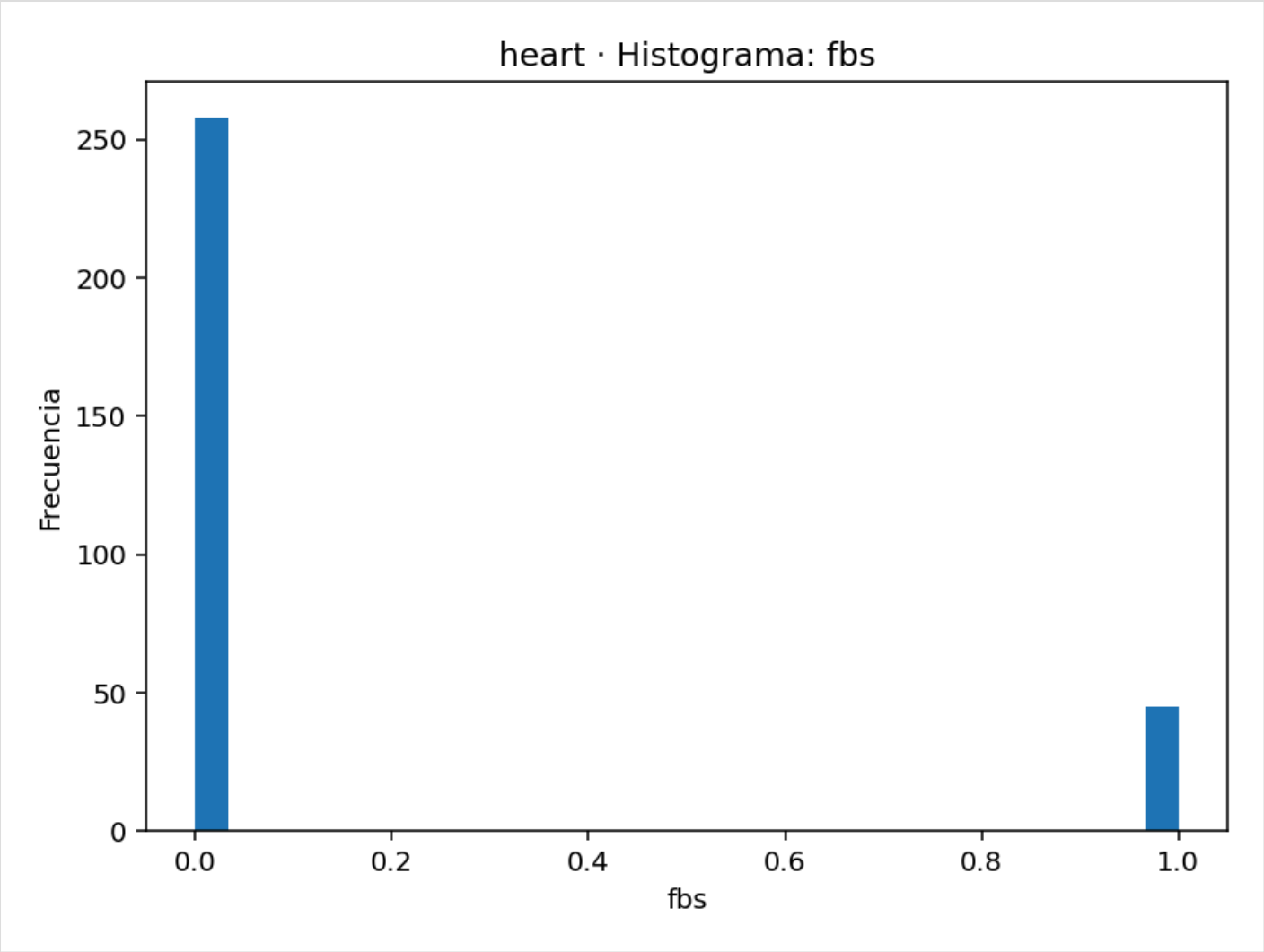
Histograma: chol



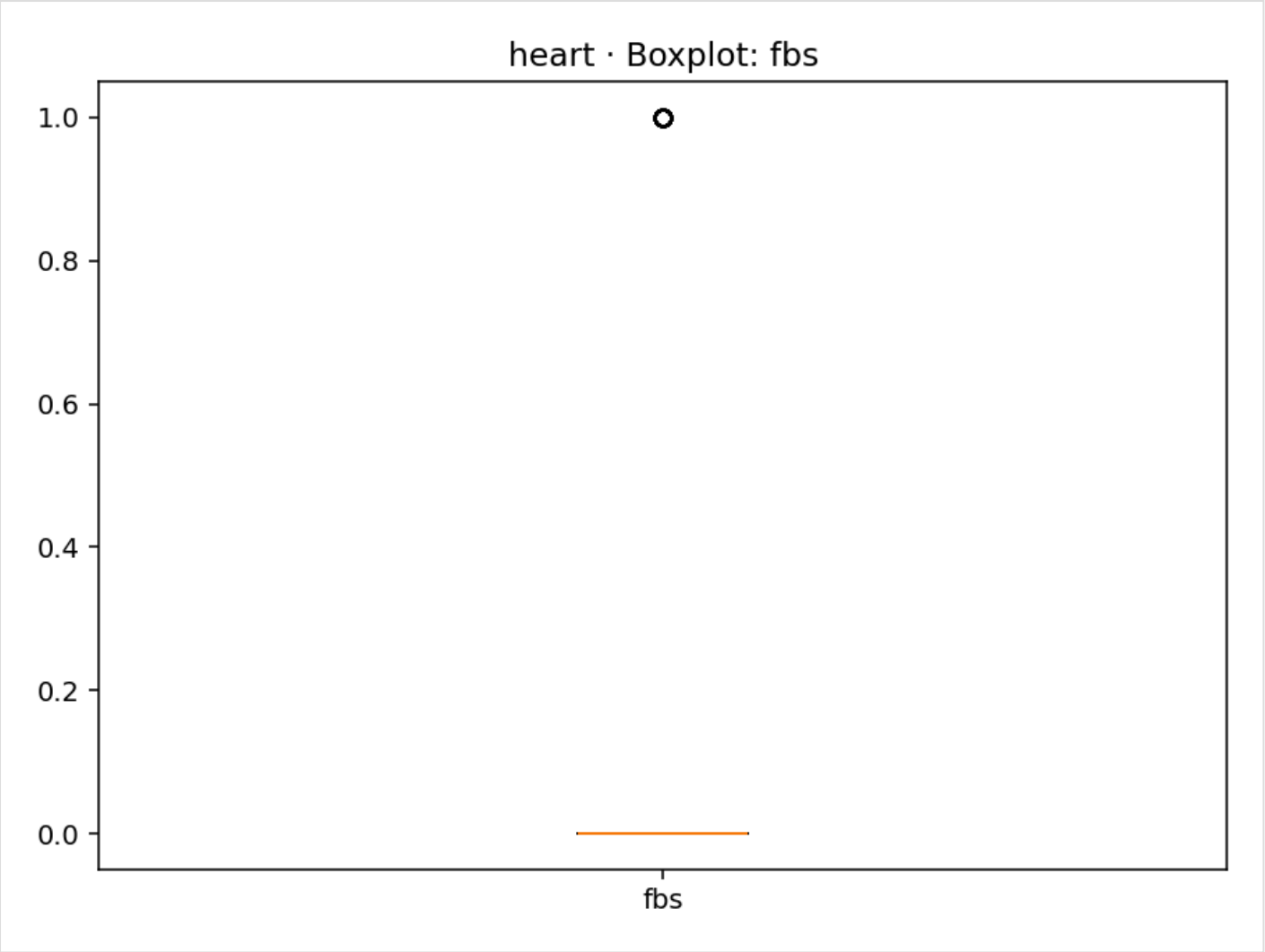
**Boxplot: chol**



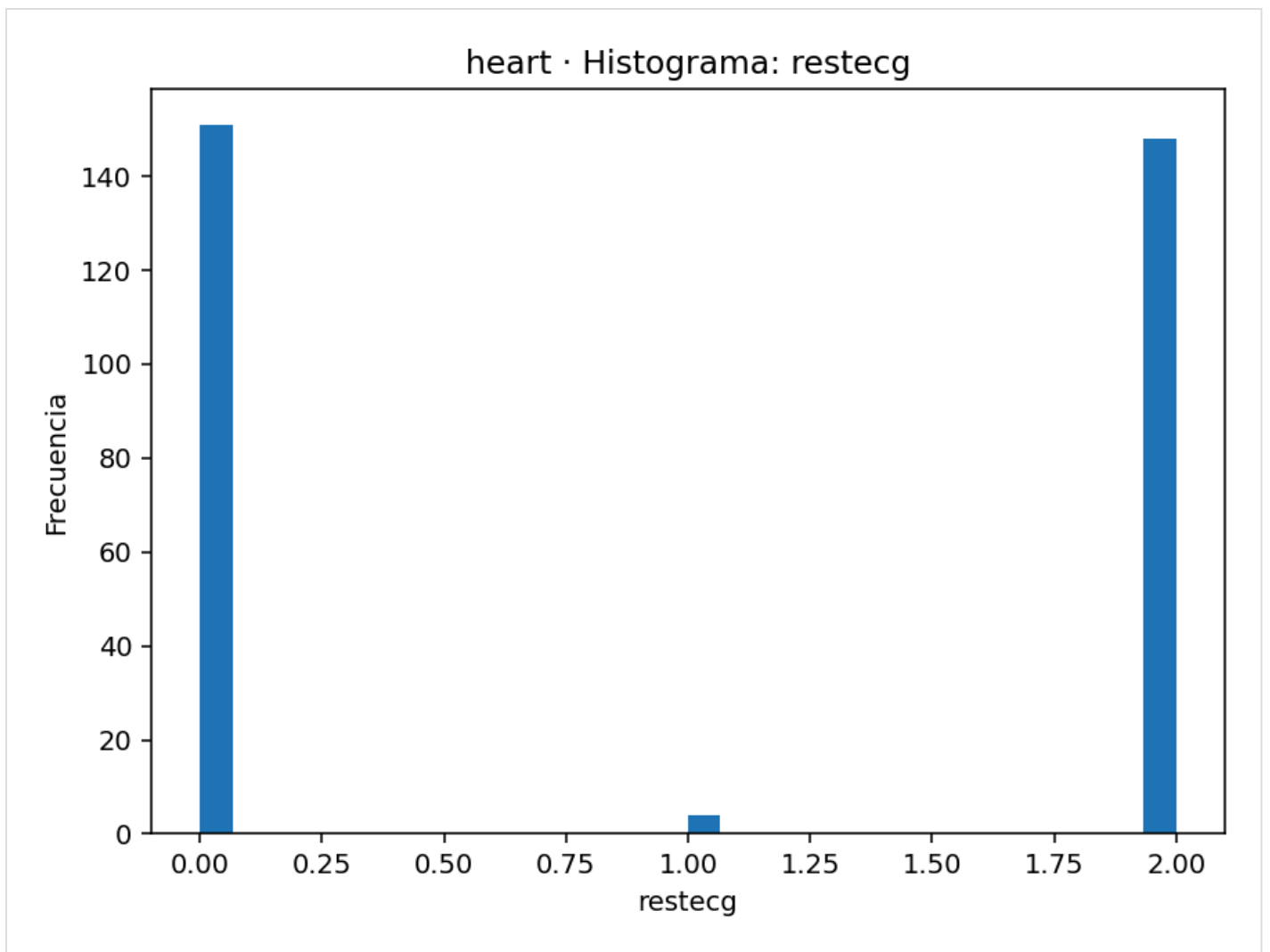
Histograma: fbs



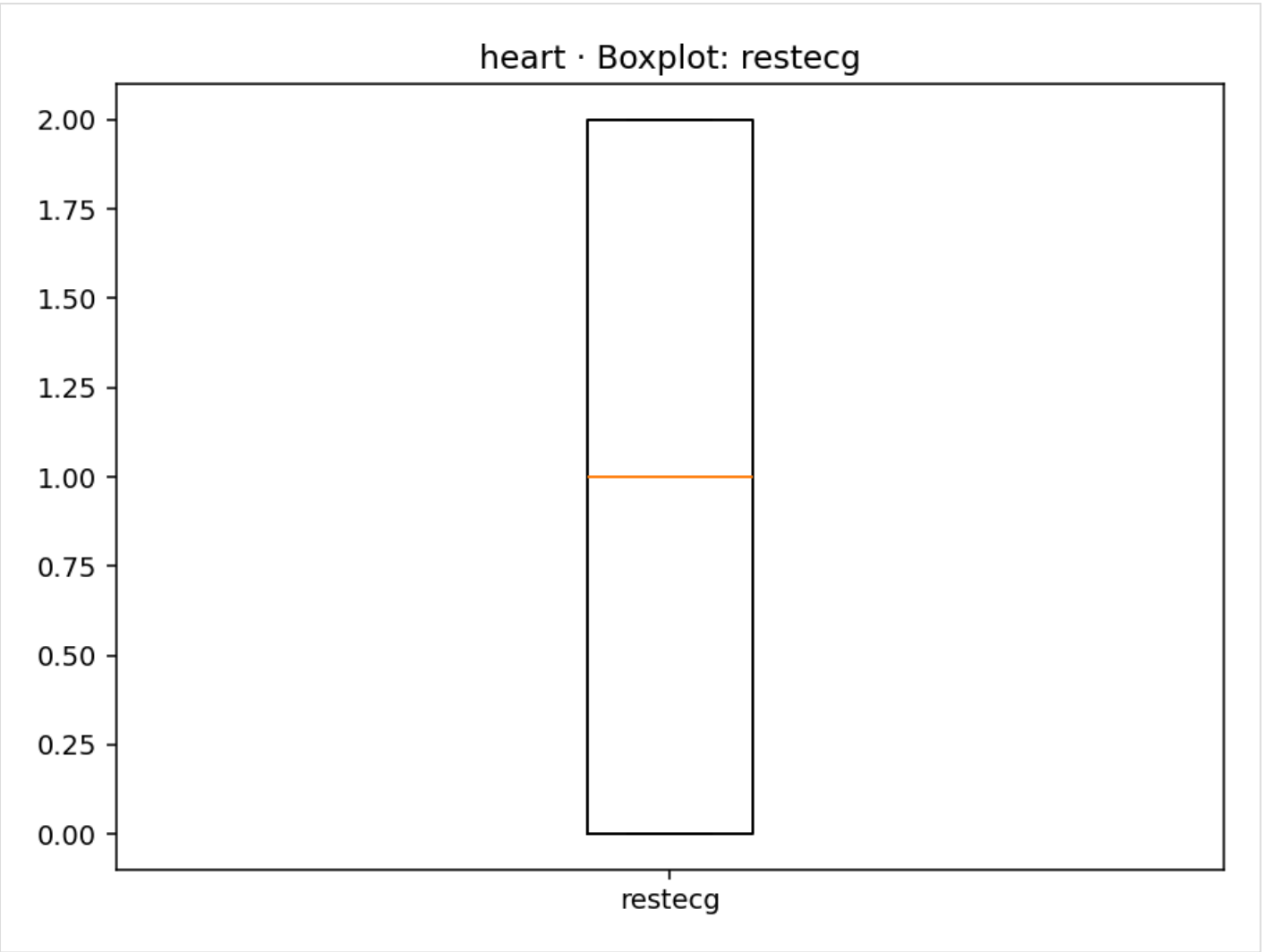
Boxplot: fbs



Histograma: restecg

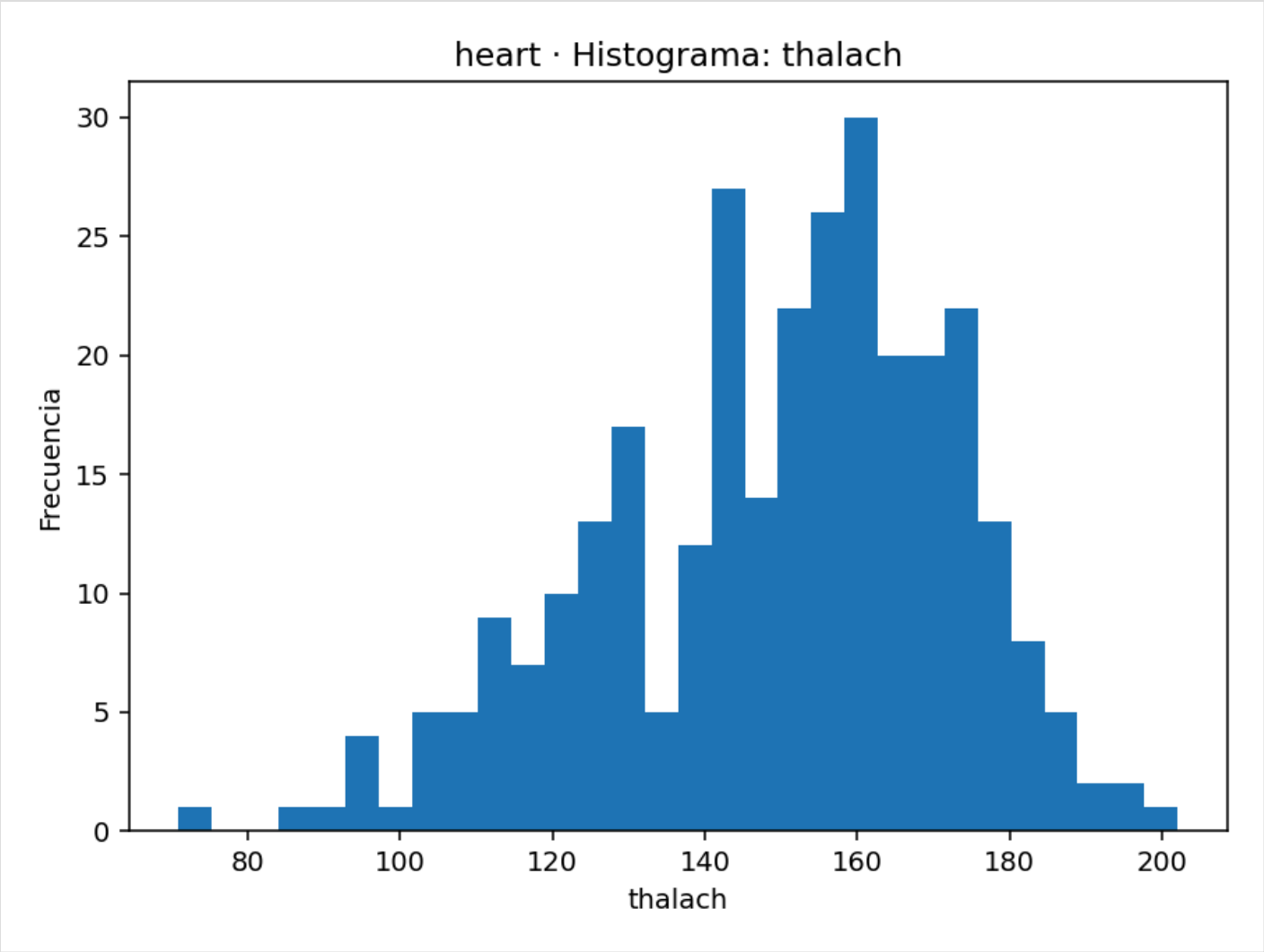


**Boxplot: restecg**



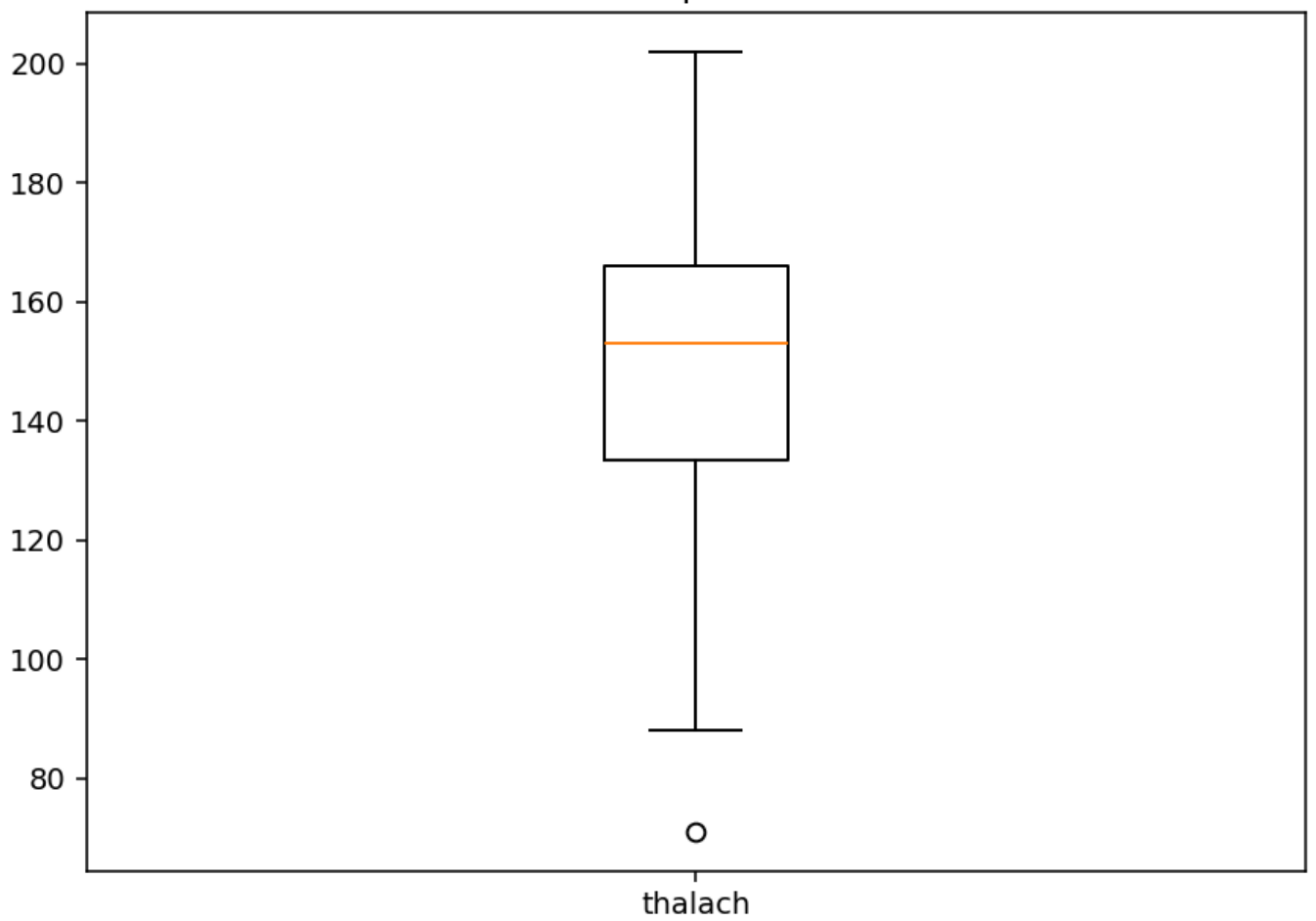
Histograma: thalach



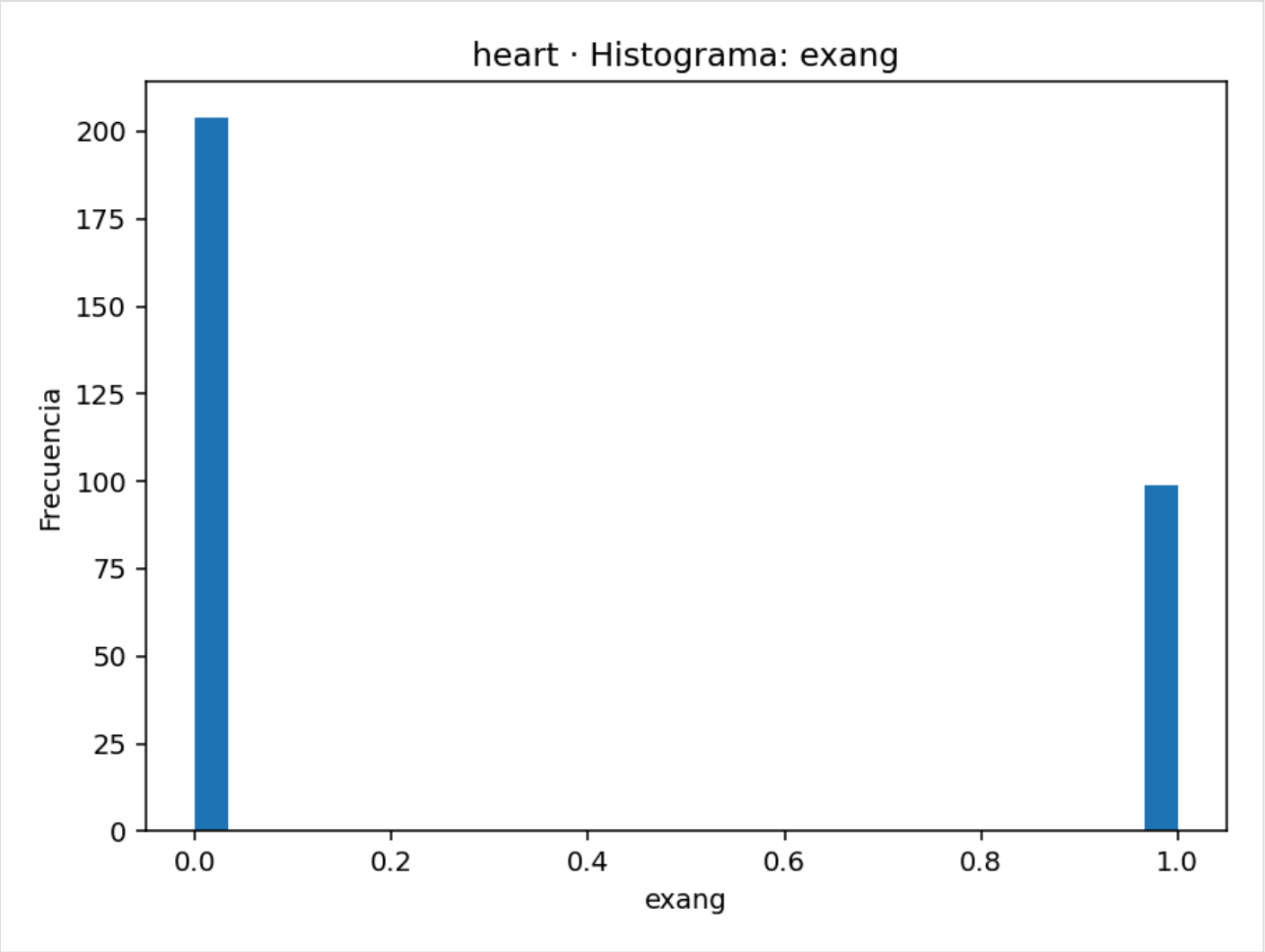


Boxplot: thalach

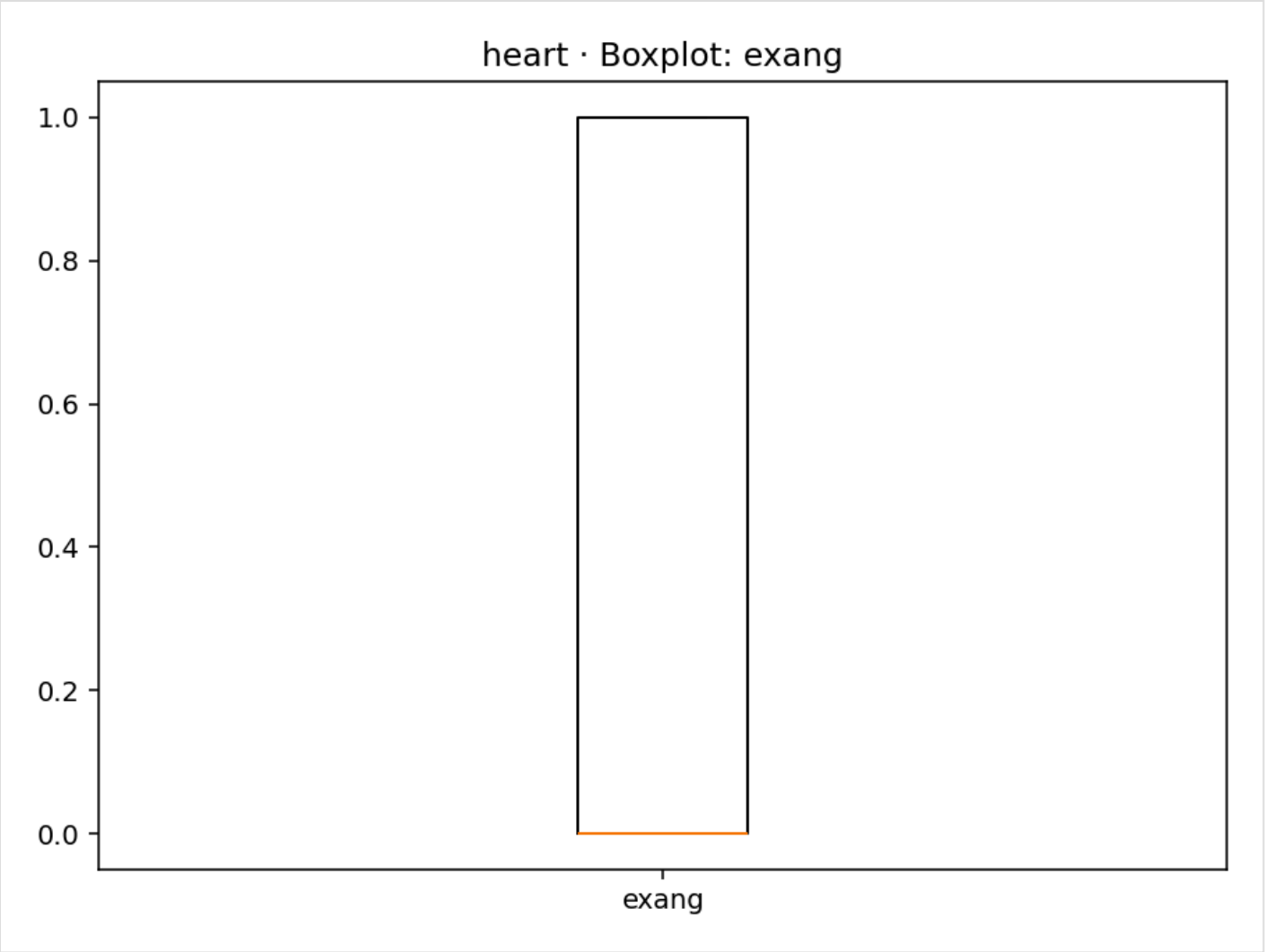
heart · Boxplot: thalach



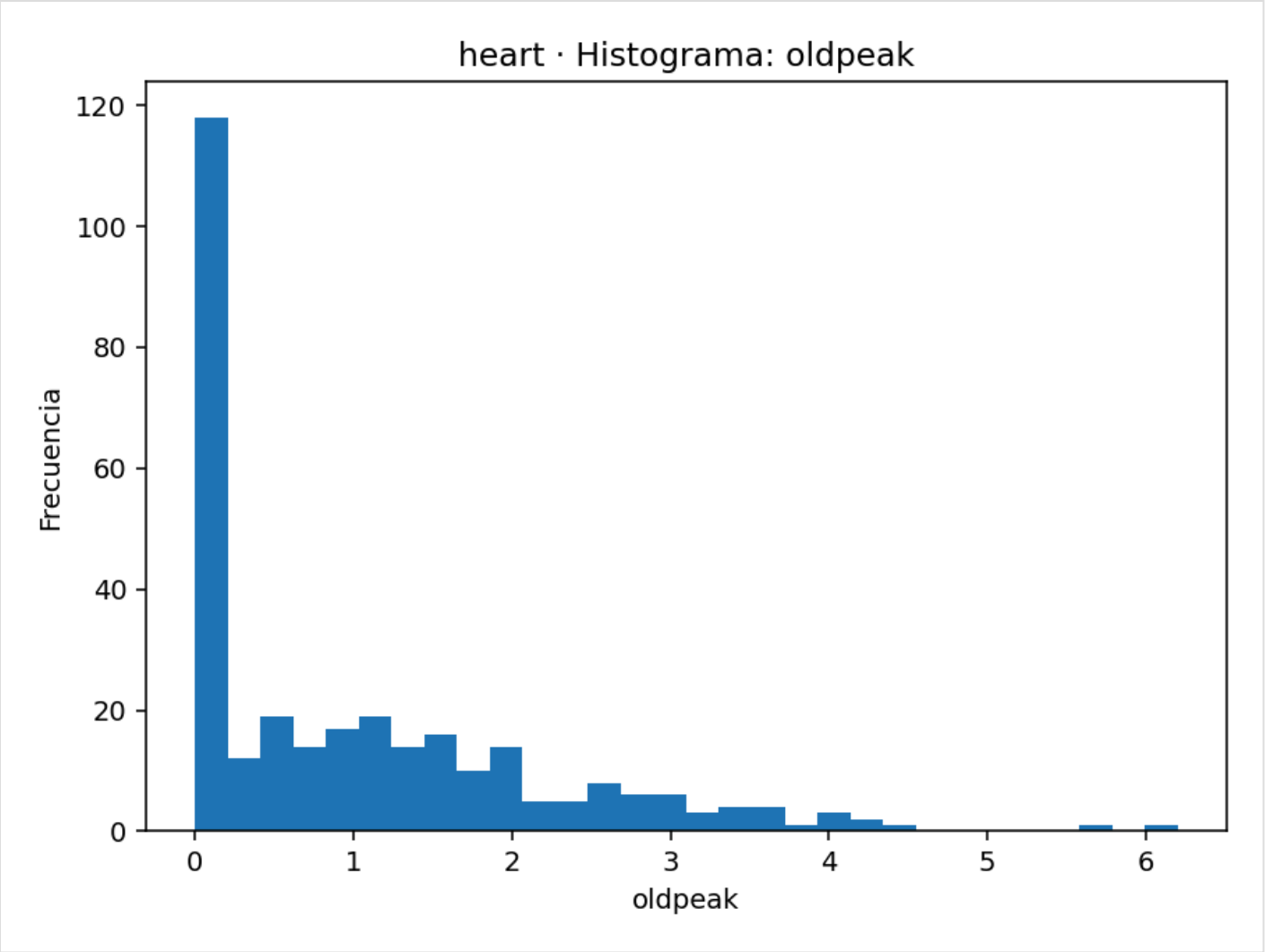
**Histograma: exang**



**Boxplot: exang**

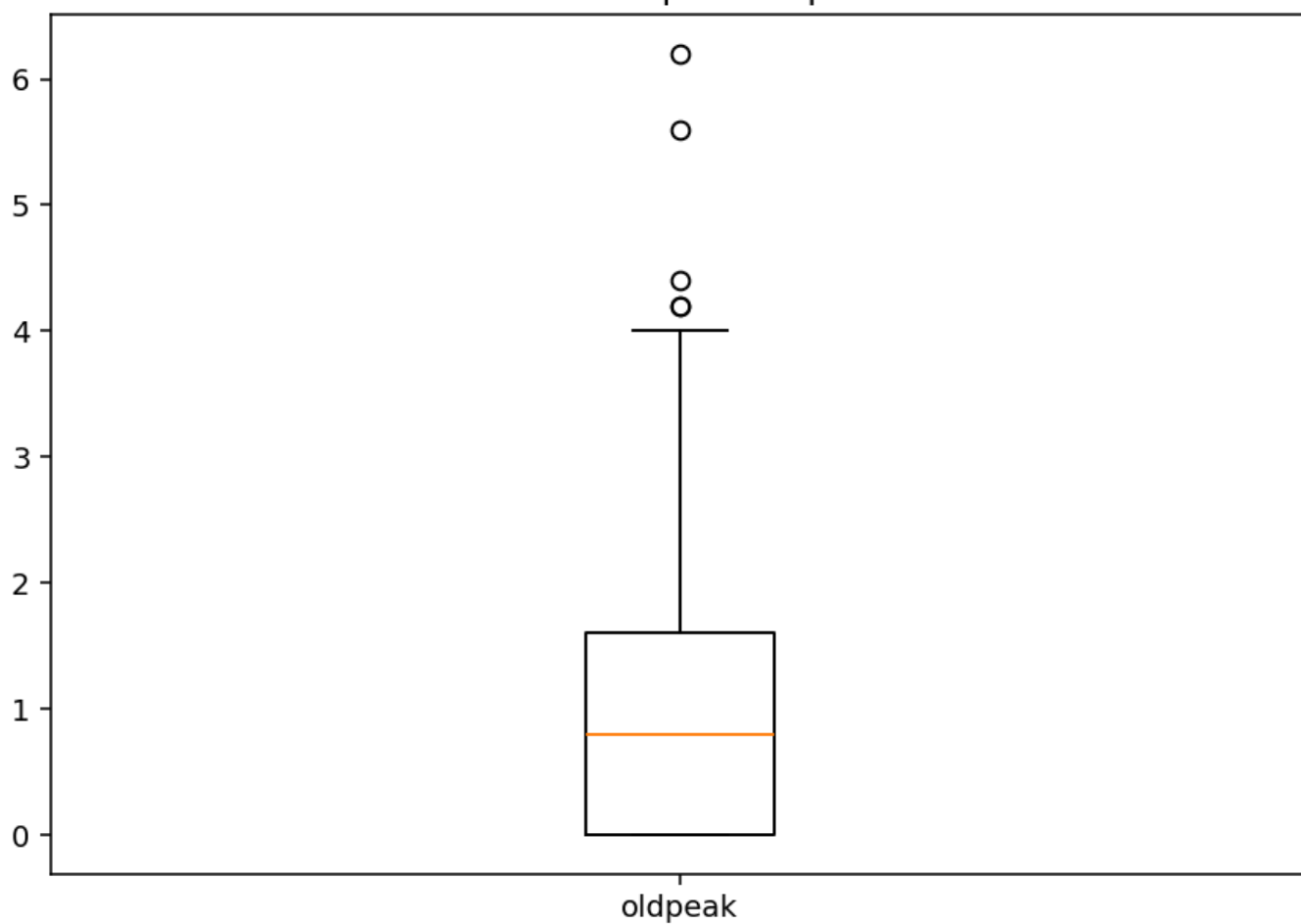


Histograma: oldpeak

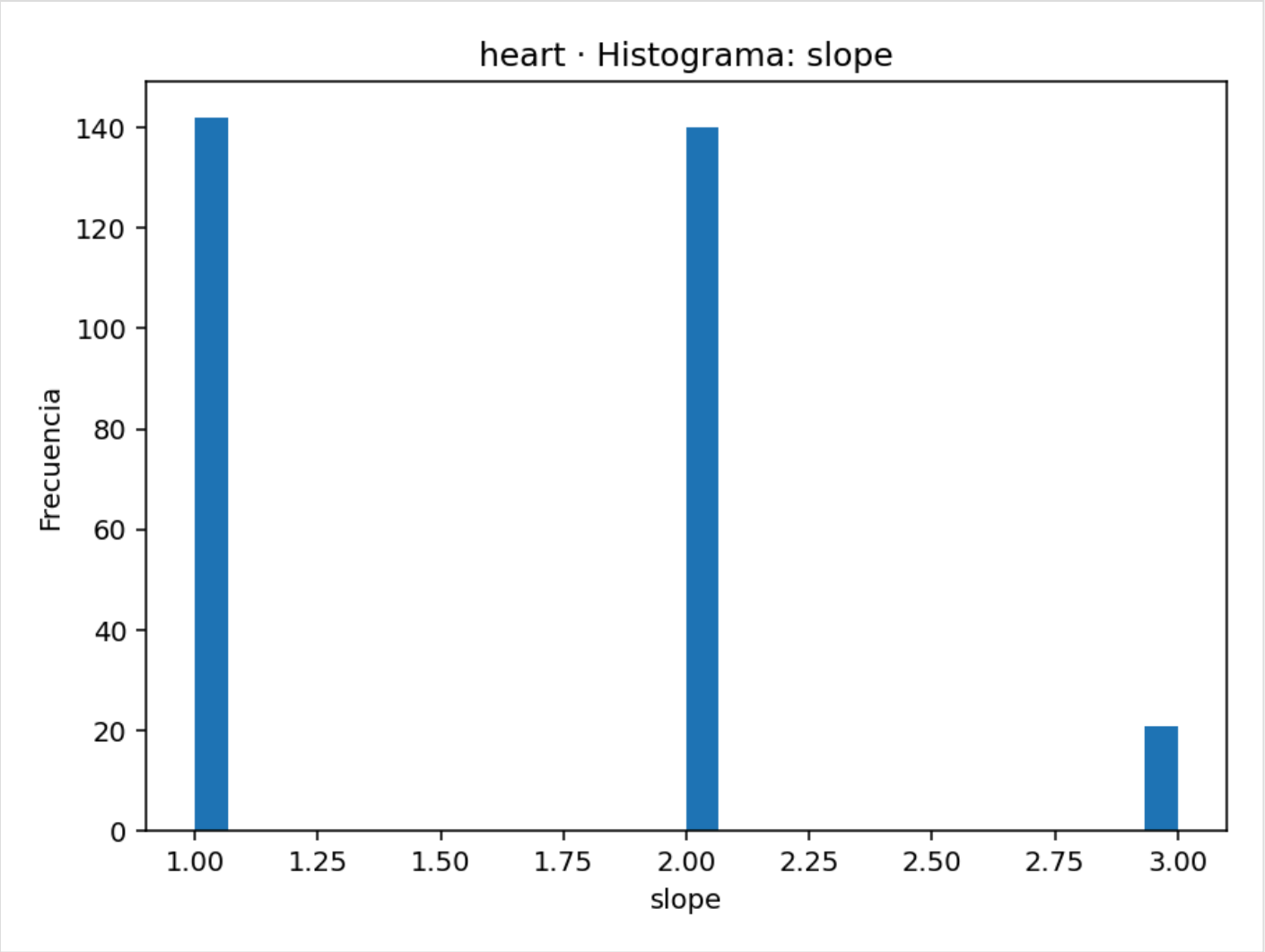


**Boxplot: oldpeak**

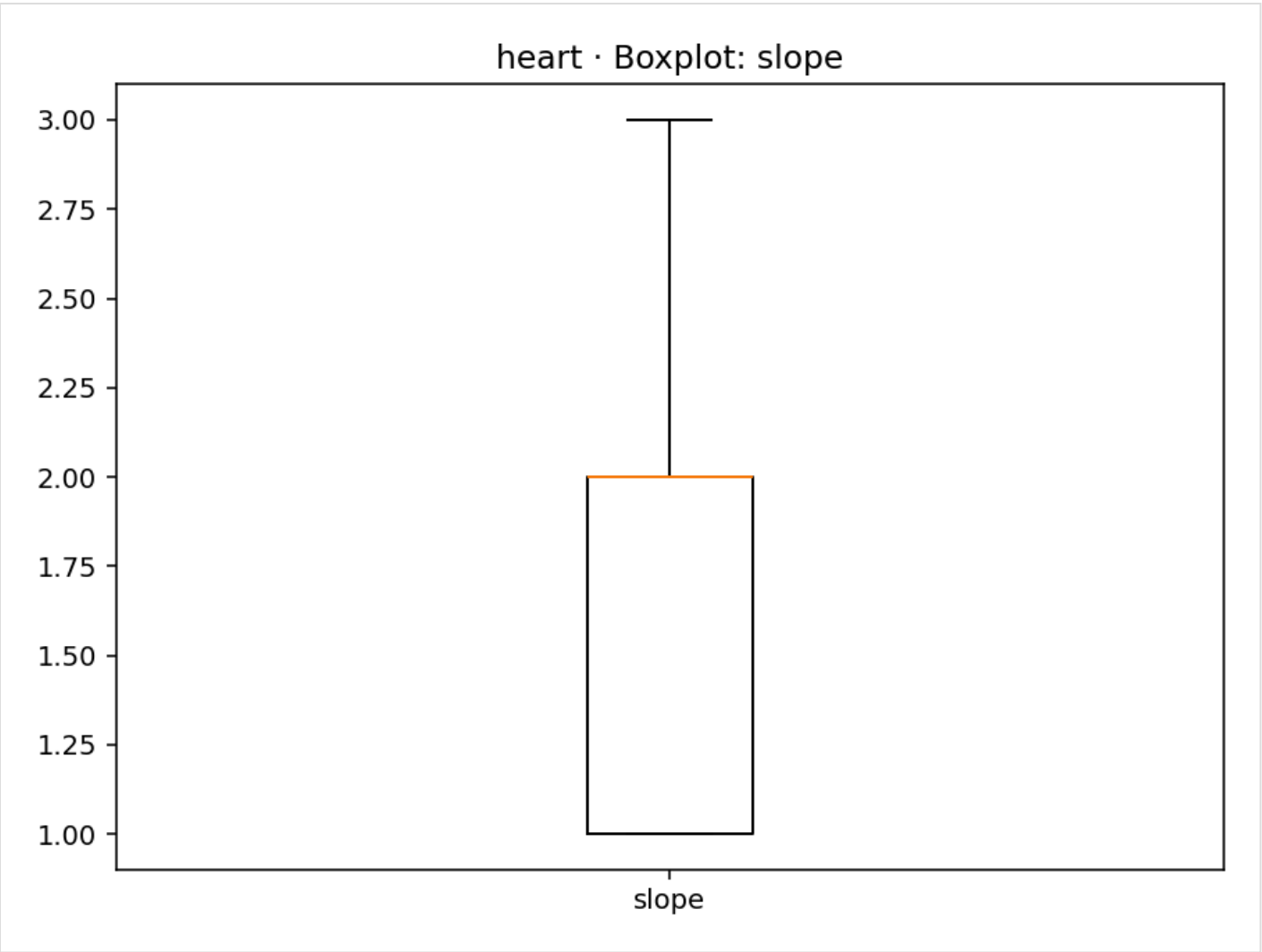
heart · Boxplot: oldpeak



**Histograma: slope**

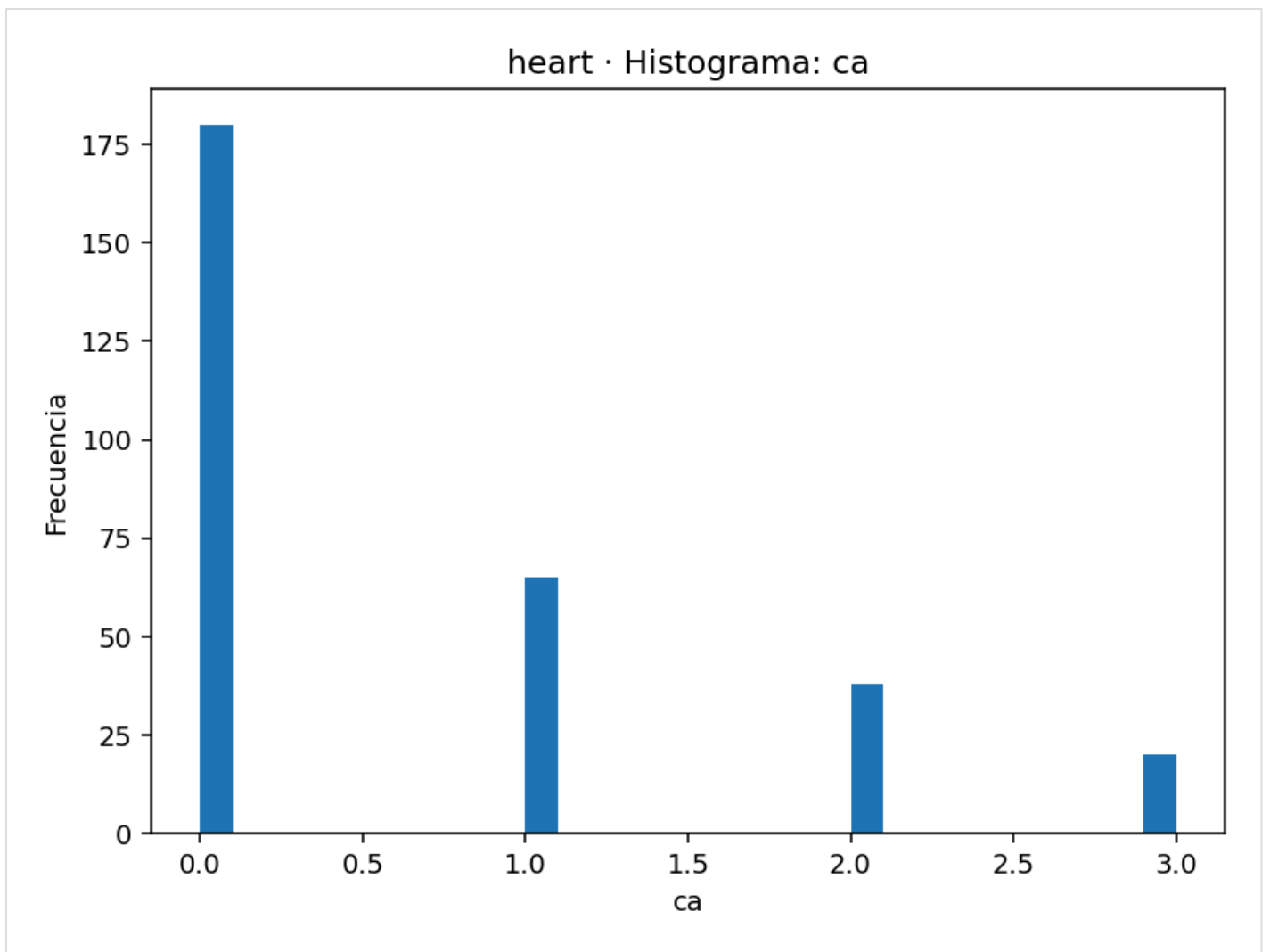


**Boxplot: slope**

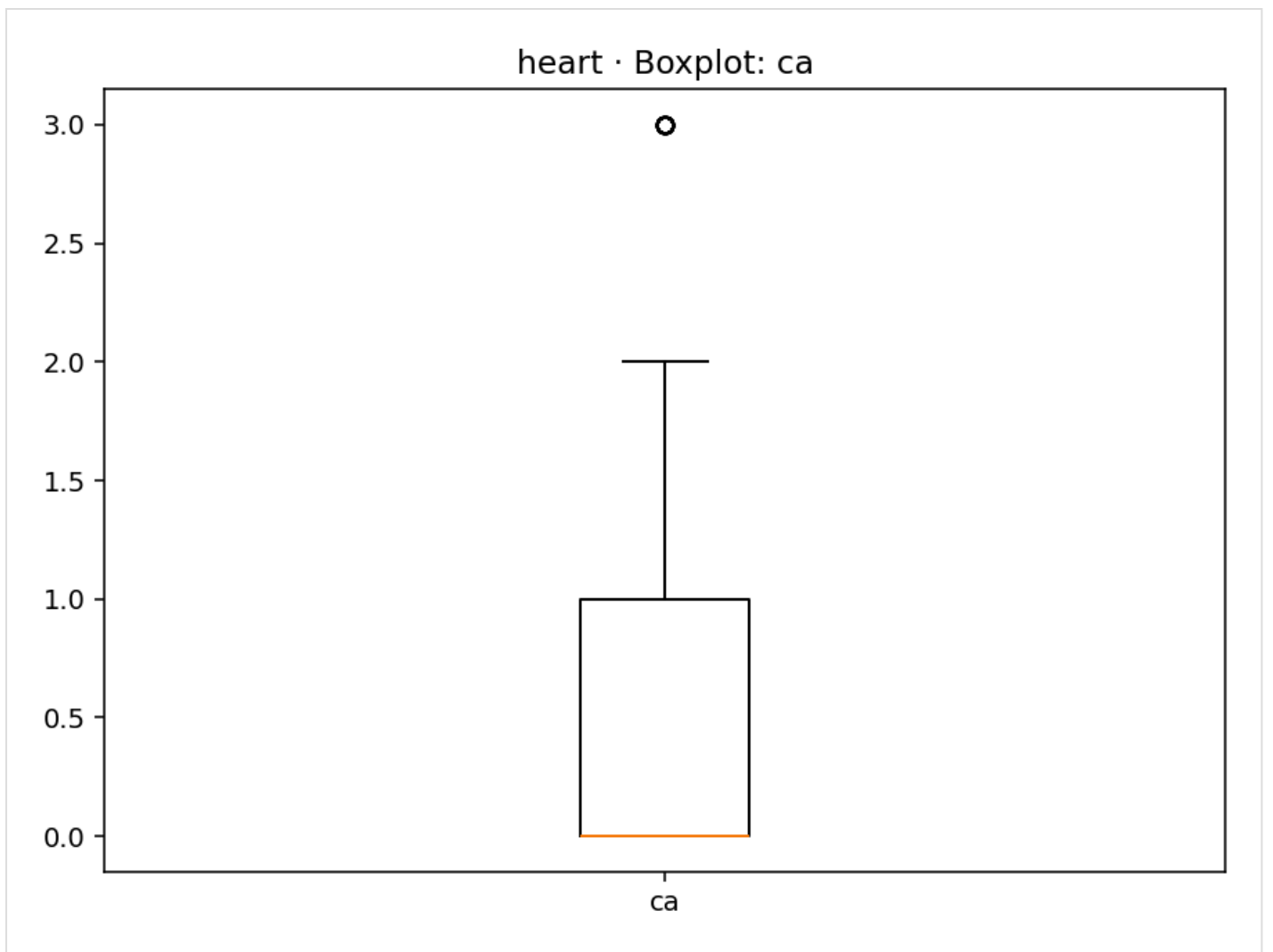


Histograma: ca





**Boxplot: ca**



**Matriz de correlaciones**

heart · Matriz de correlaciones (Pearson)

