

# 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

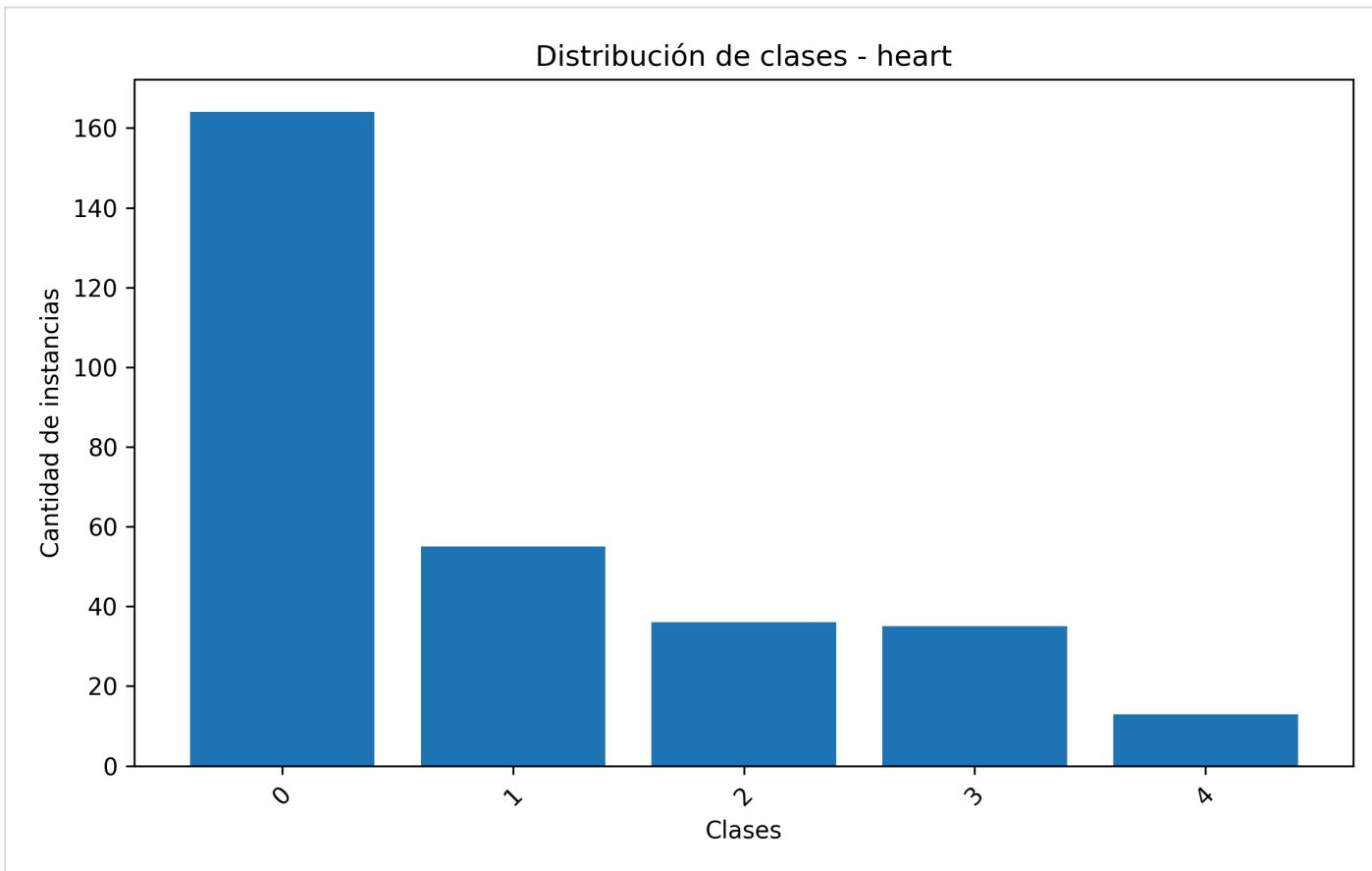
## PCA — Varianza explicada

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

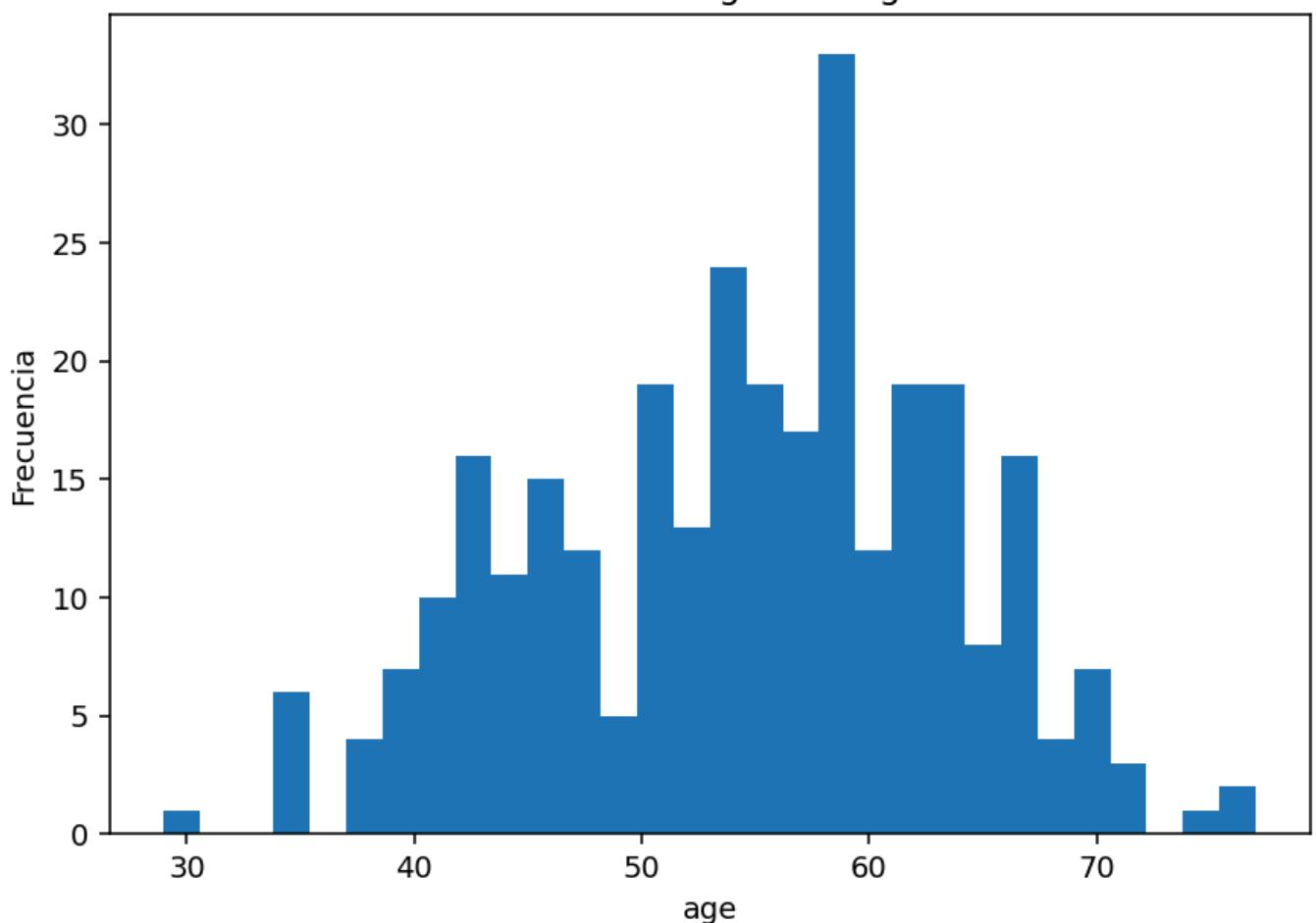
## Figuras

### Distribución de clases



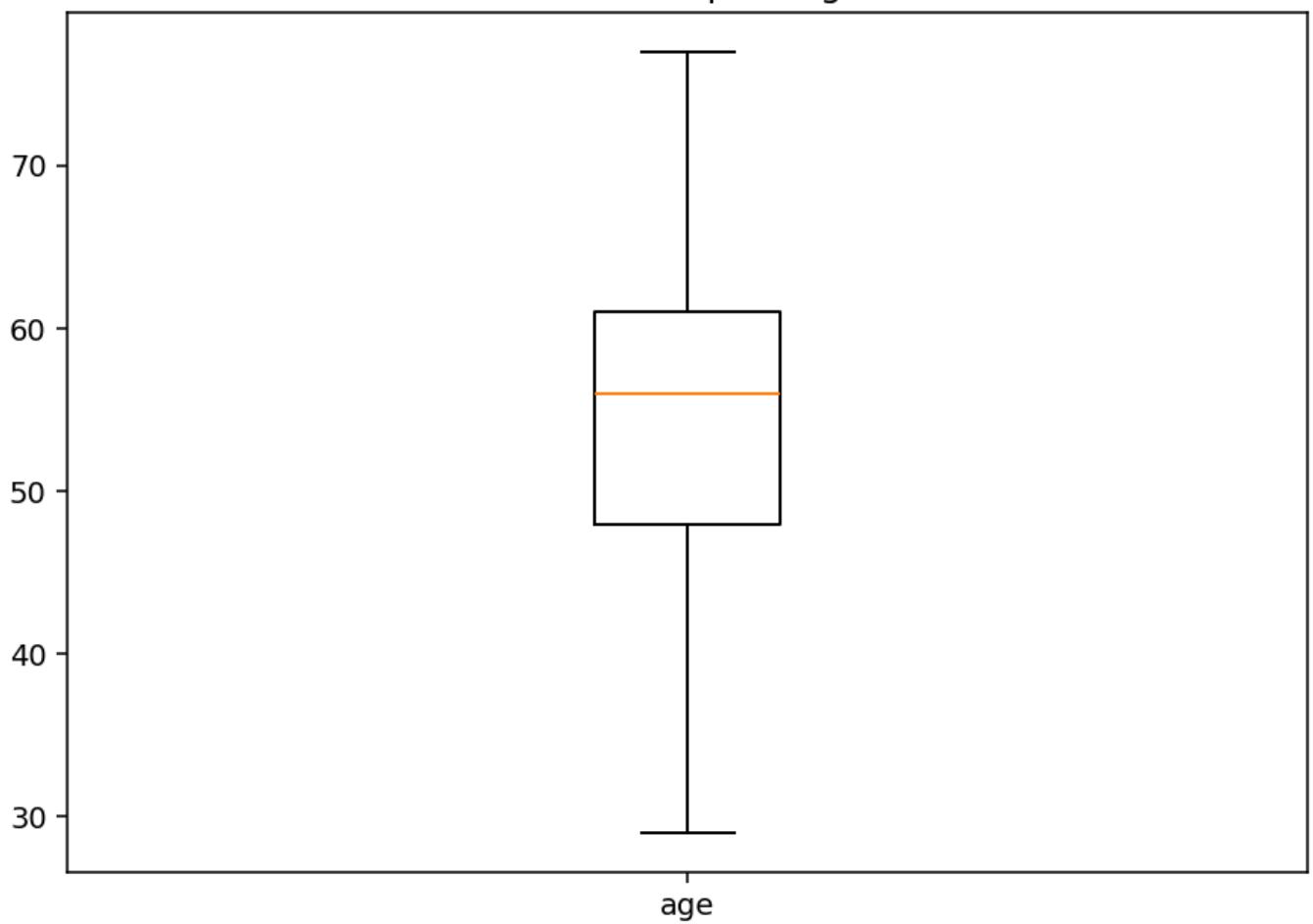
### Histograma: age

heart · Histograma: age



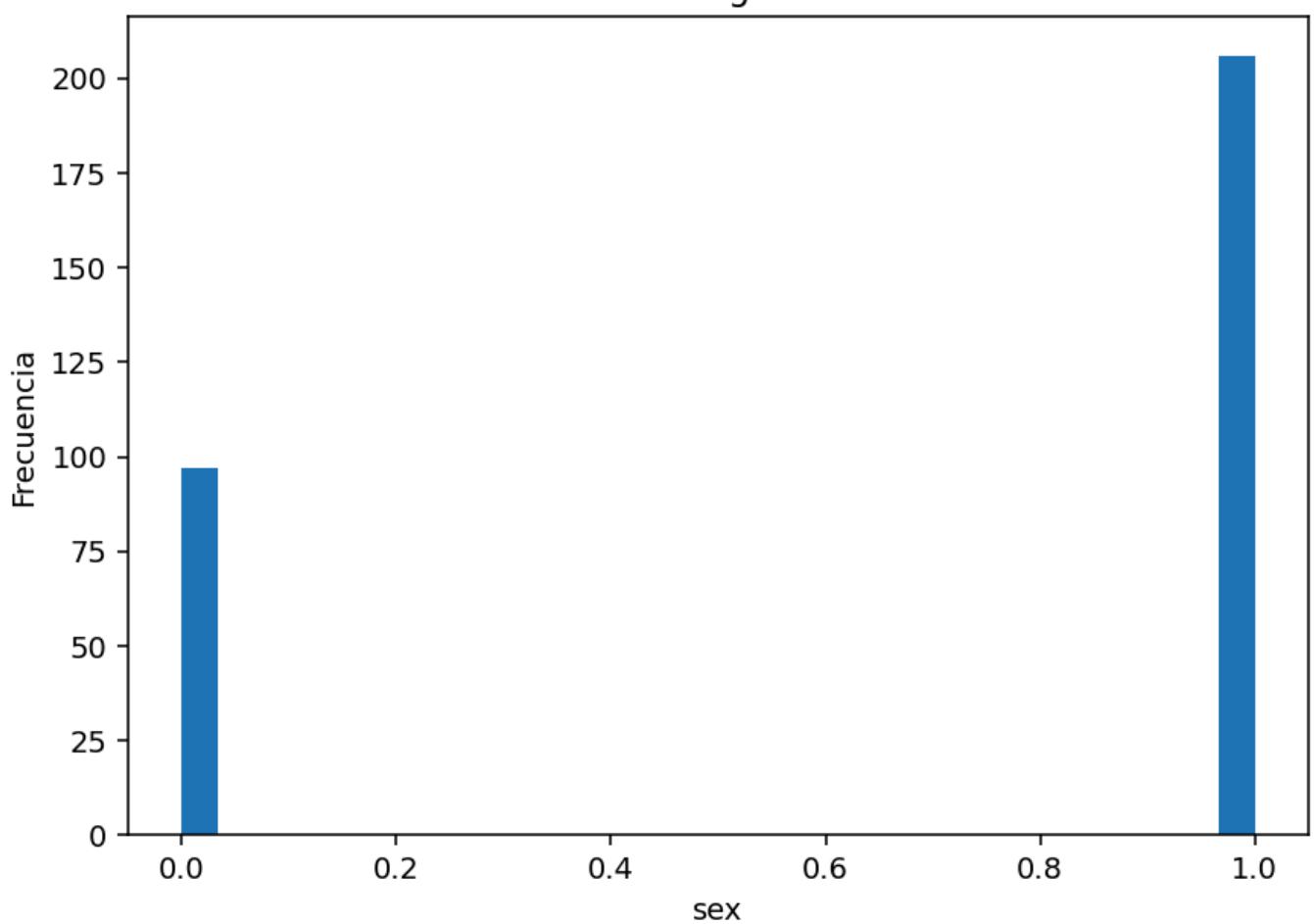
Boxplot: age

heart · Boxplot: age



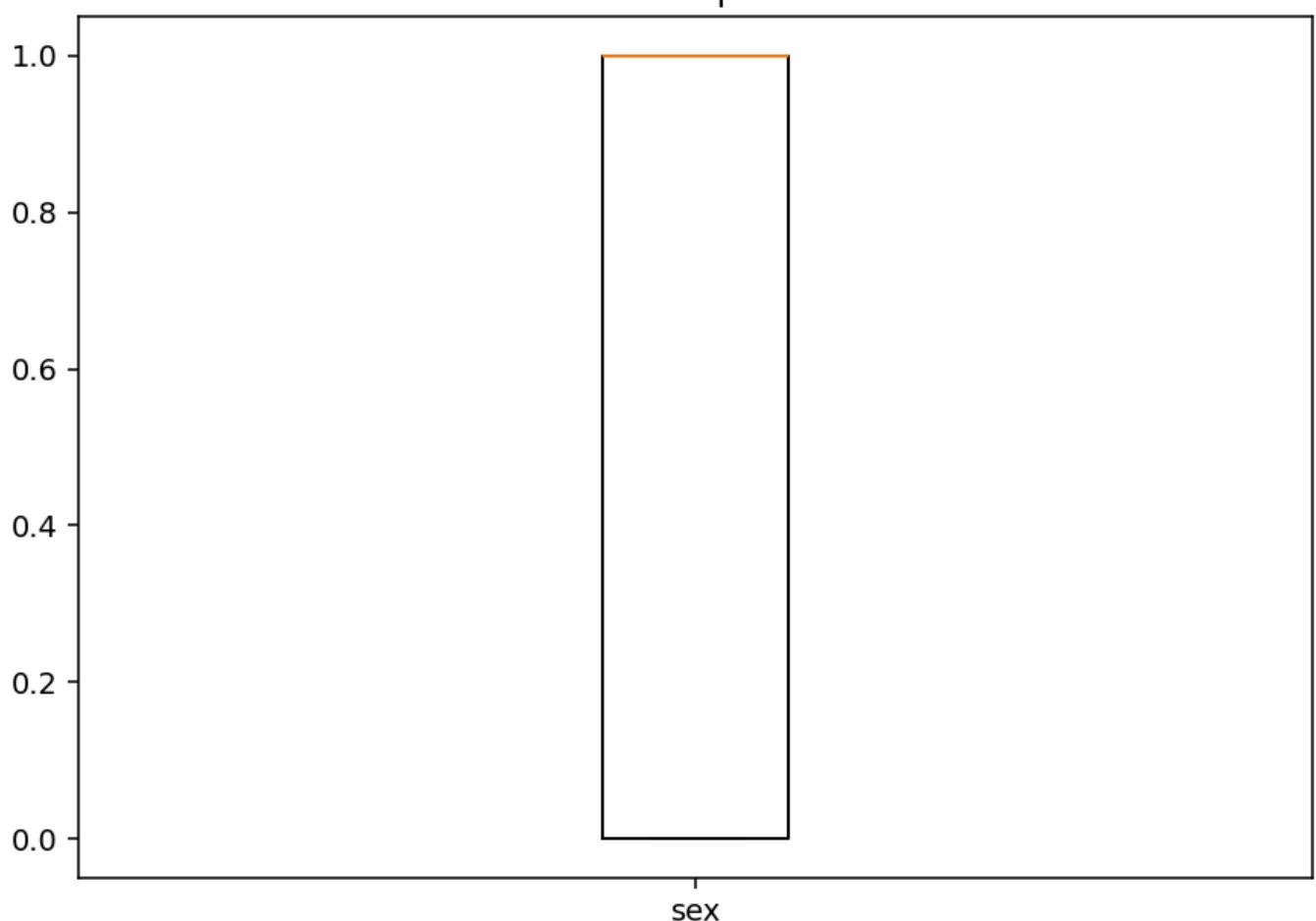
**Histograma: sex**

heart · Histograma: sex



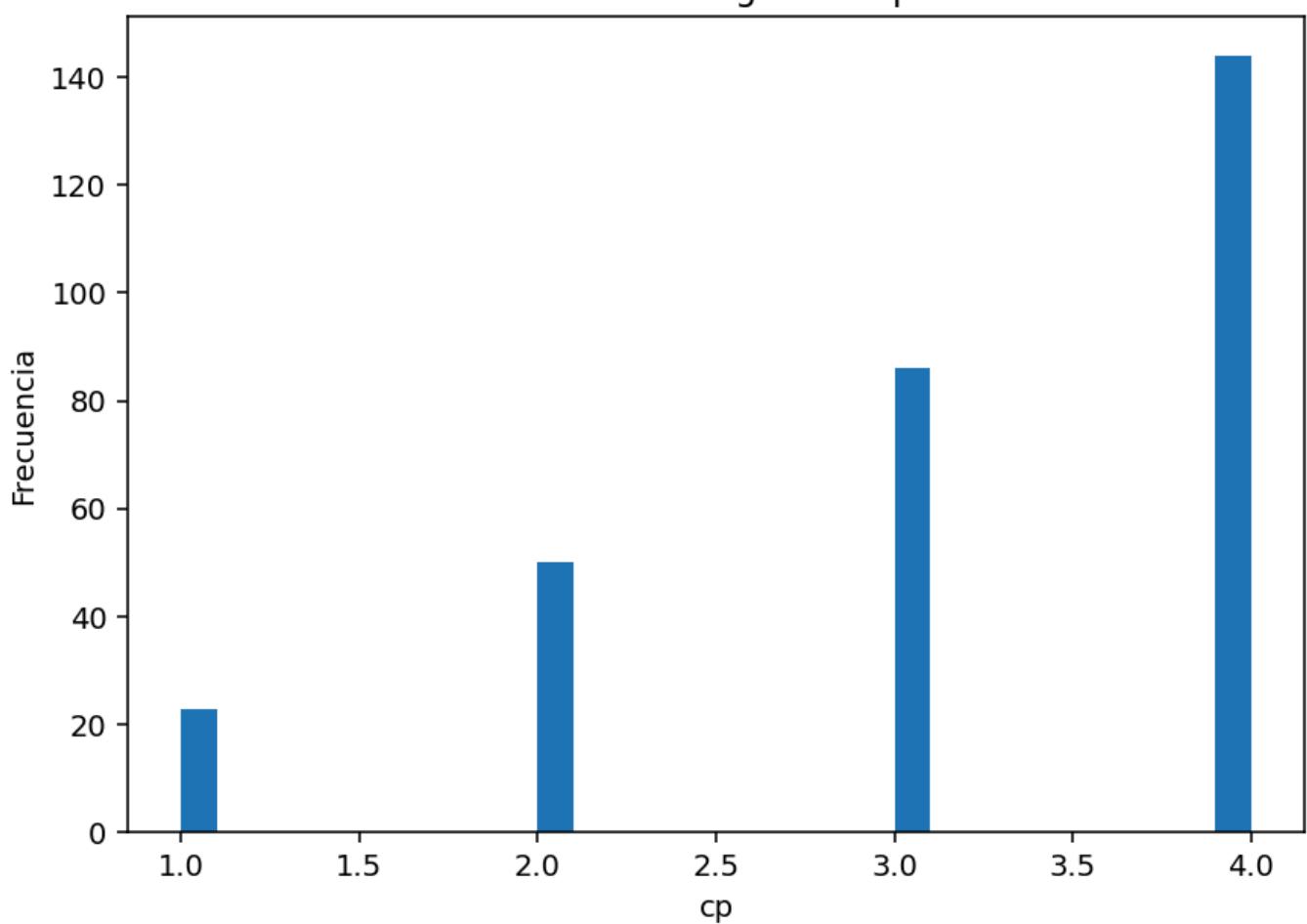
Boxplot: sex

heart · Boxplot: sex



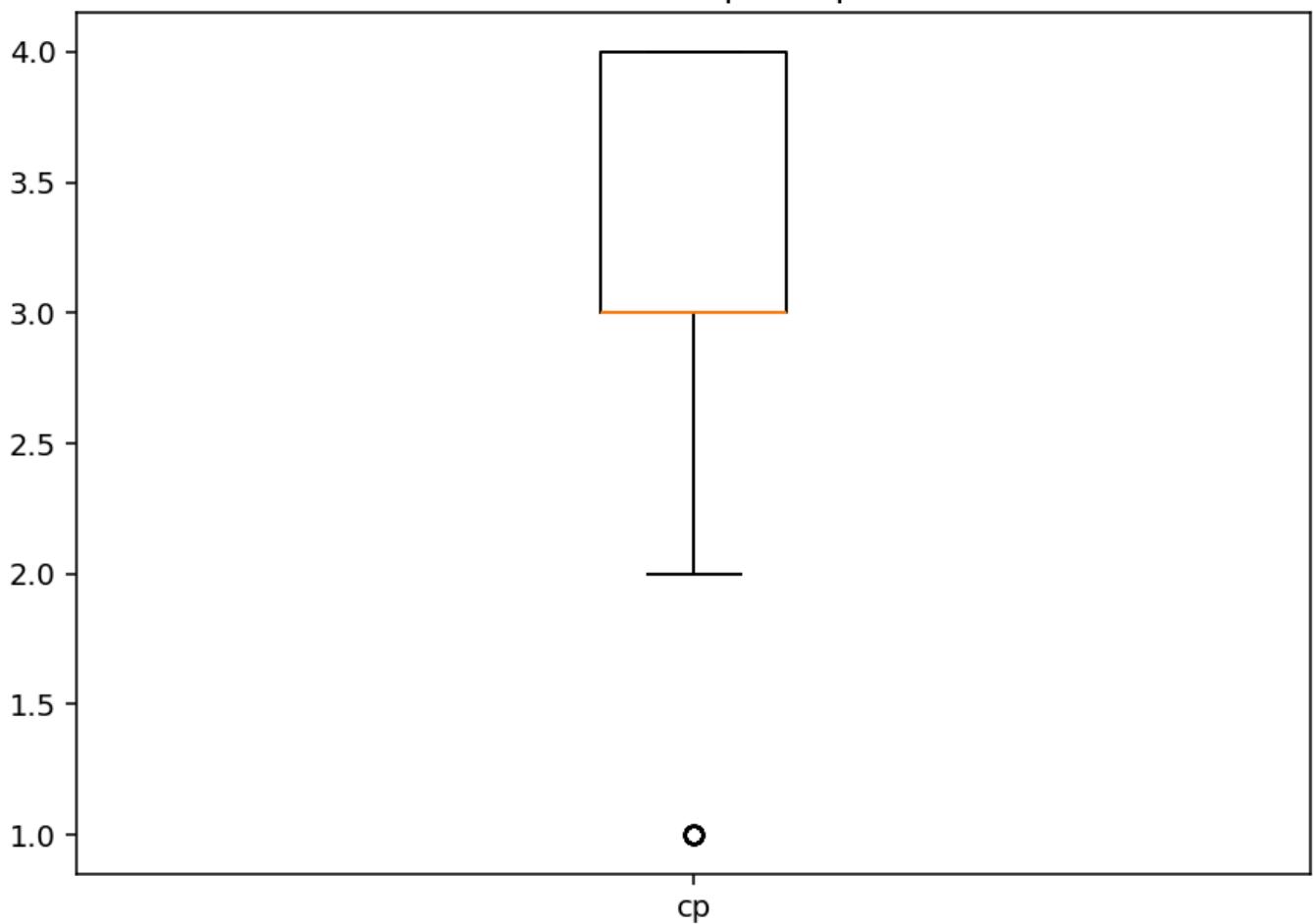
**Histograma: cp**

heart · Histograma: cp



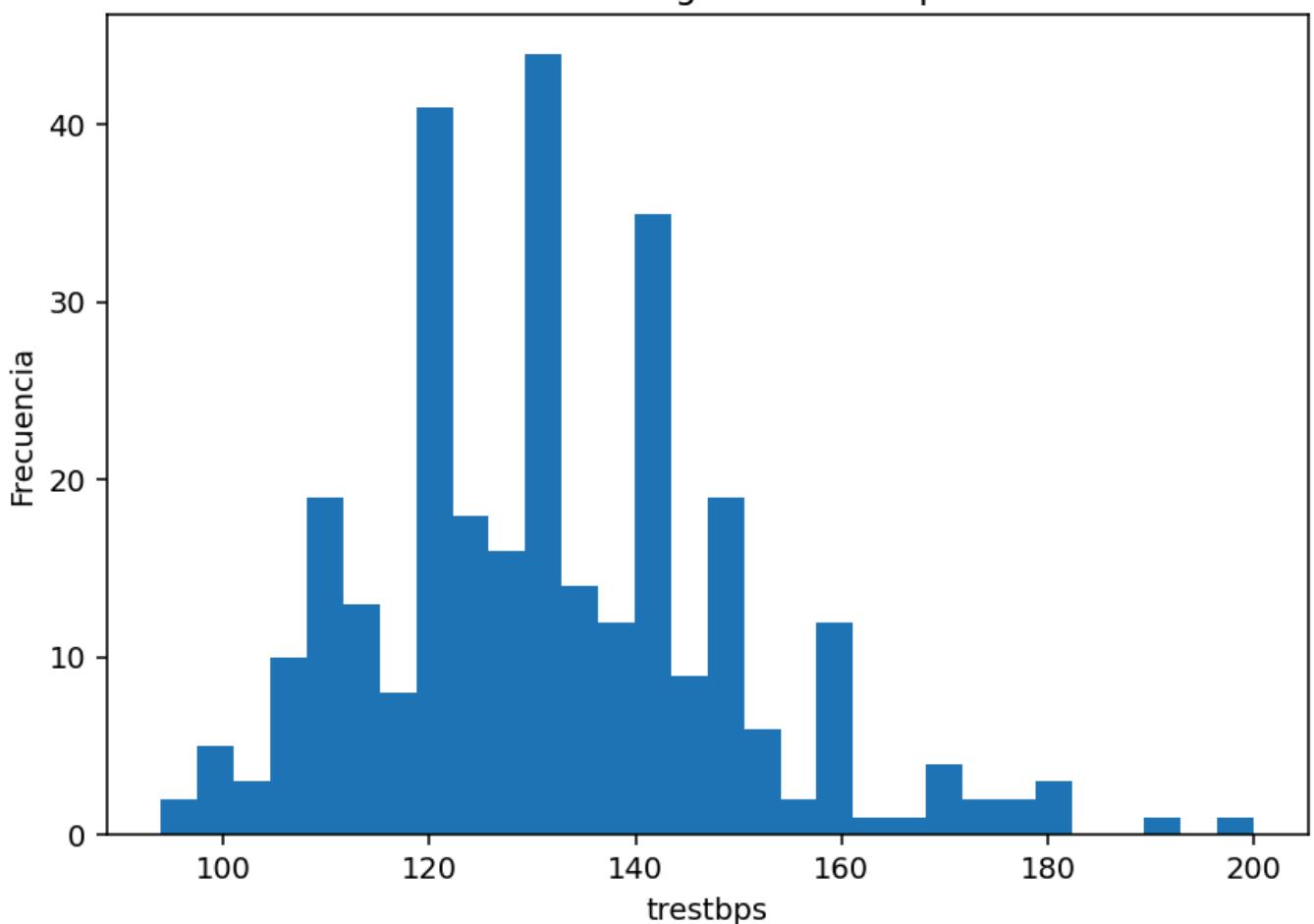
Boxplot: cp

heart · Boxplot: cp



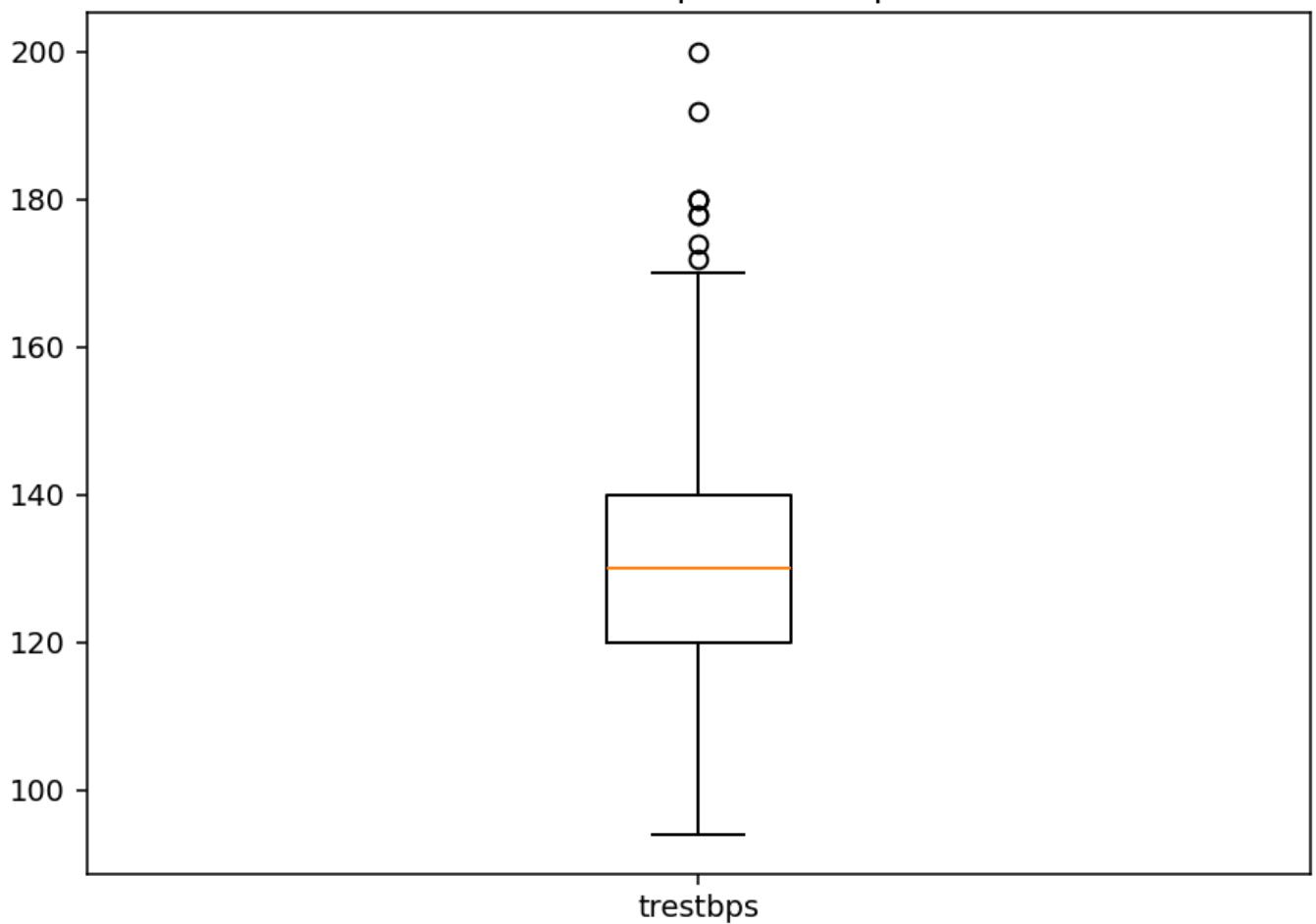
**Histograma: trestbps**

heart · Histograma: trestbps



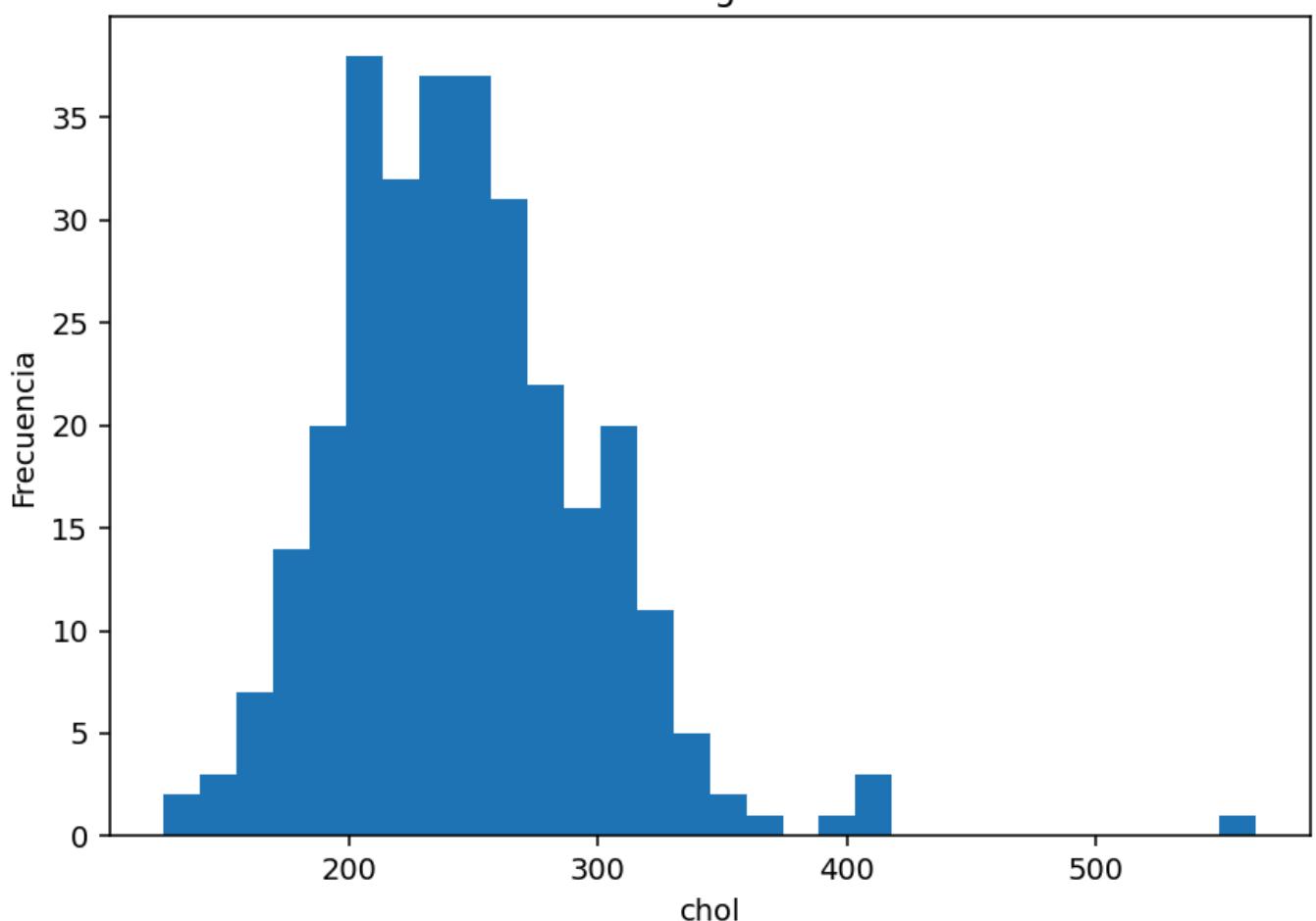
Boxplot: trestbps

heart · Boxplot: trestbps



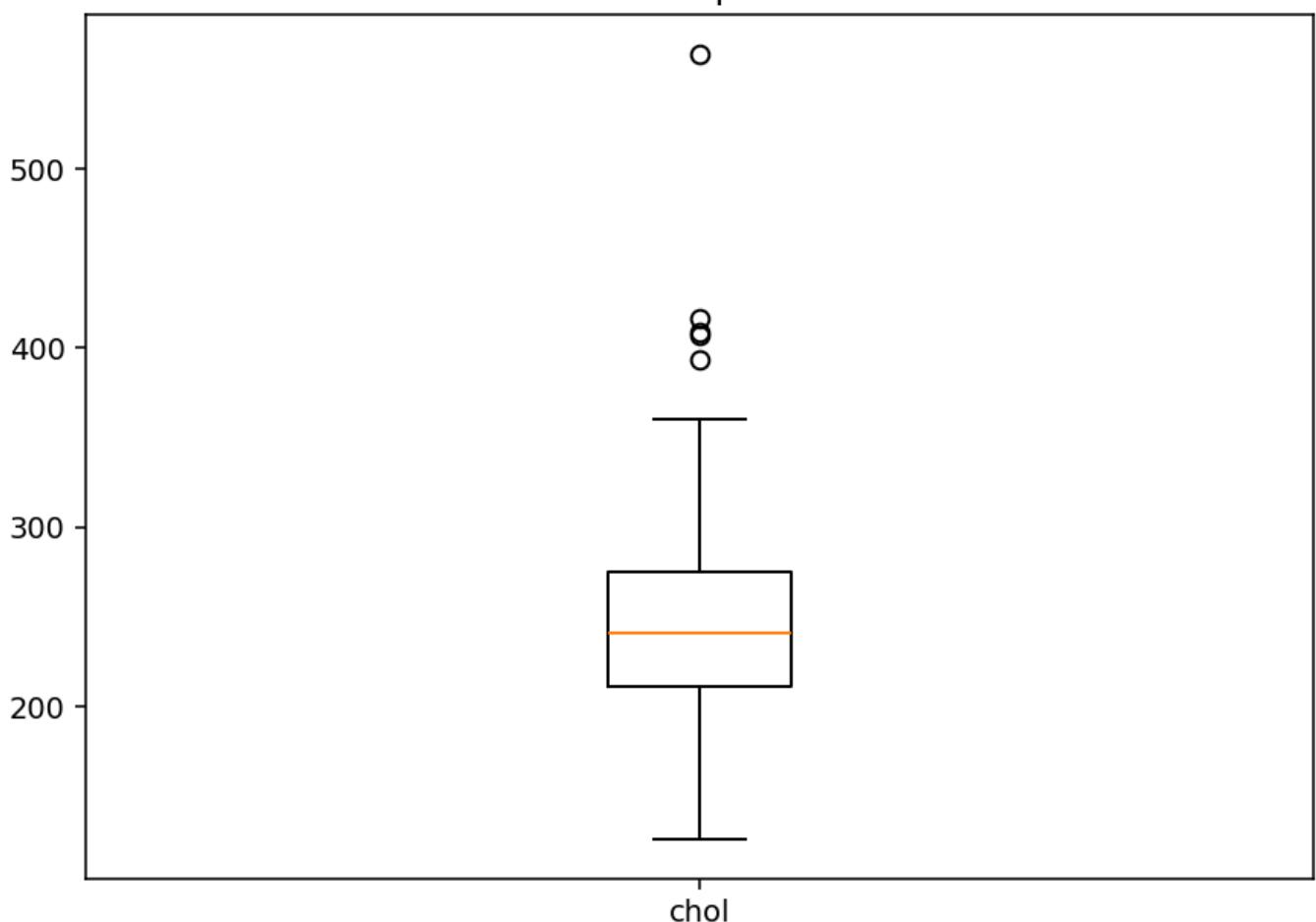
**Histograma: chol**

heart · Histograma: chol



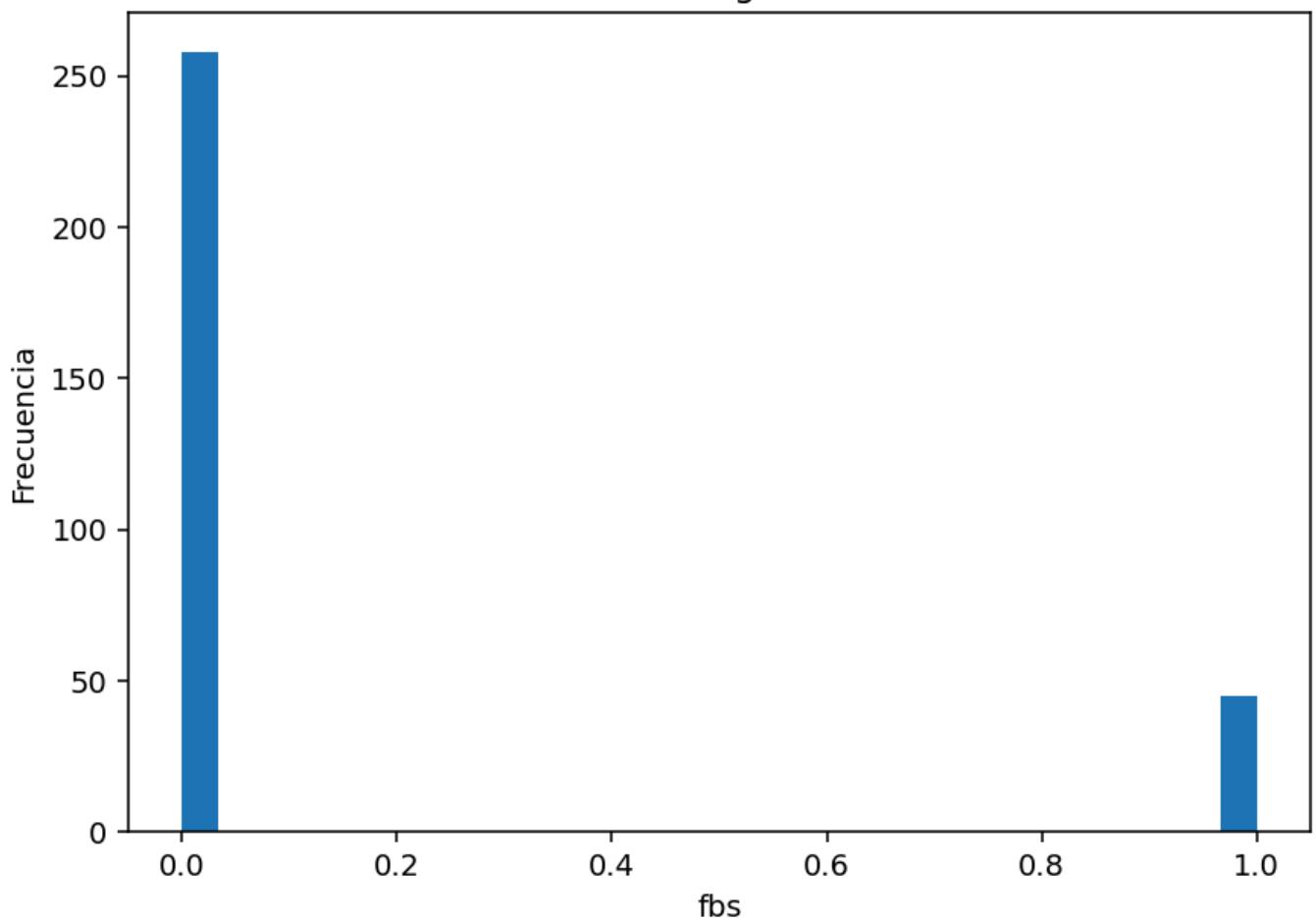
Boxplot: chol

heart · Boxplot: chol



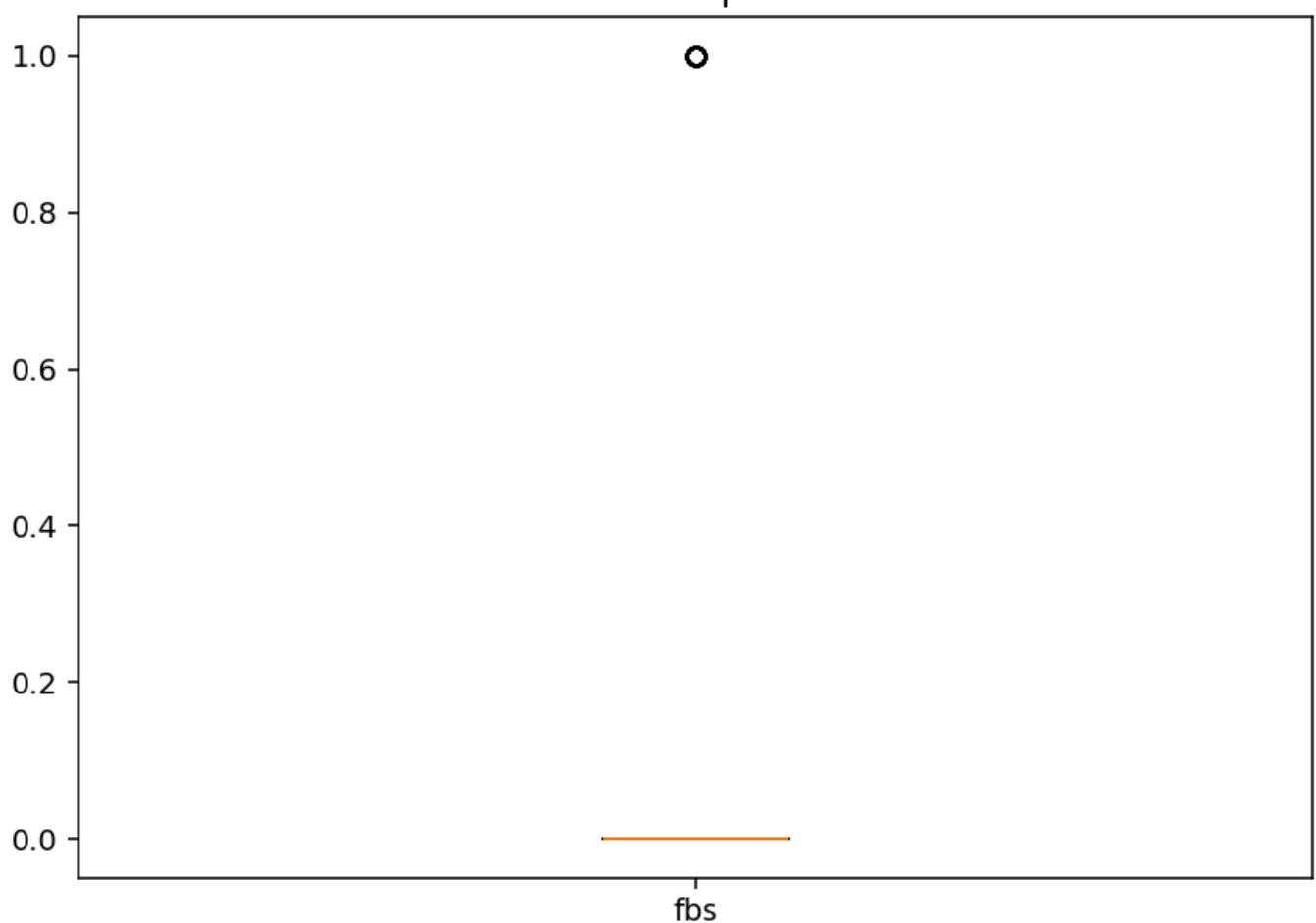
**Histograma: fbs**

heart · Histograma: fbs



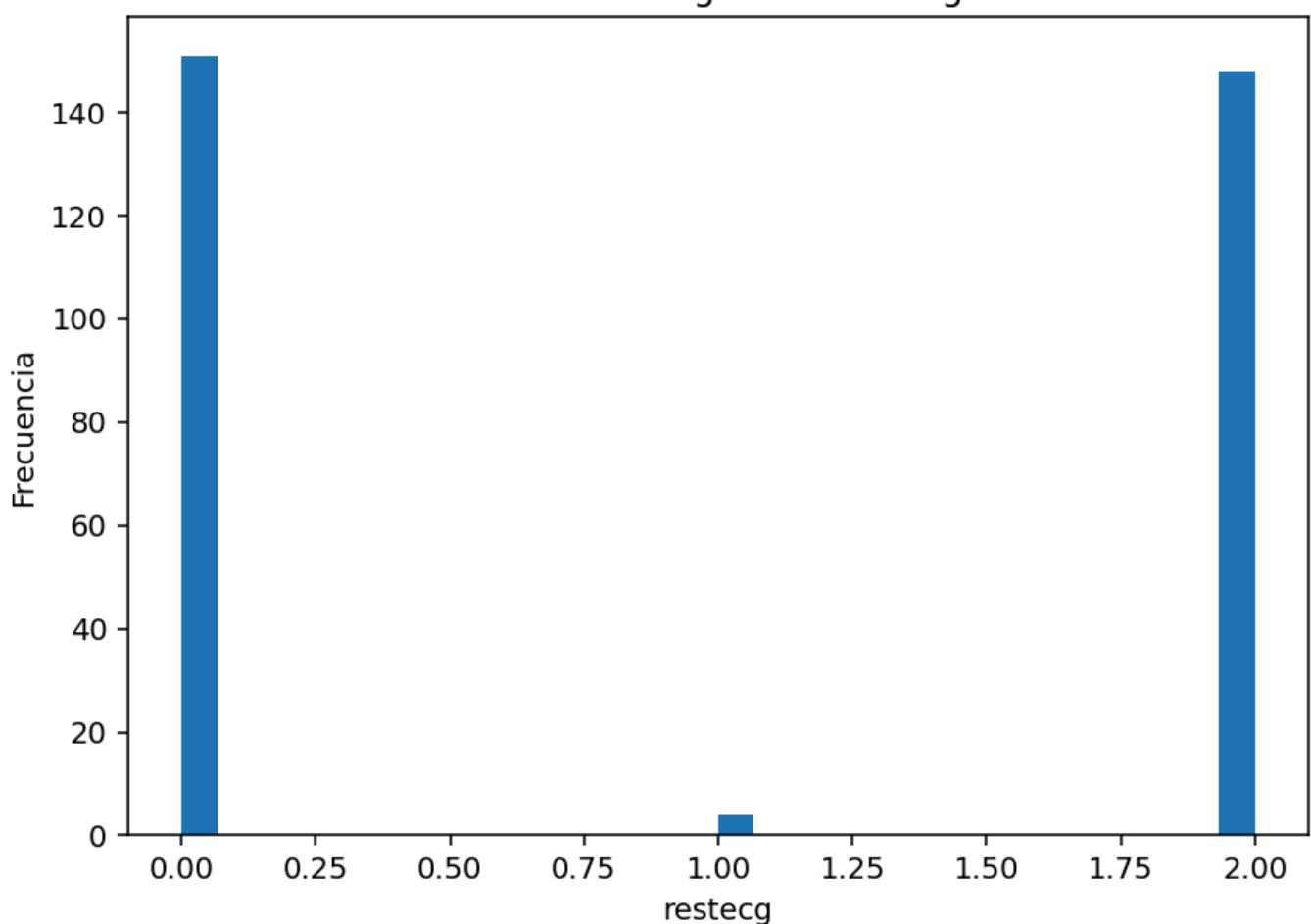
Boxplot: fbs

heart · Boxplot: fbs



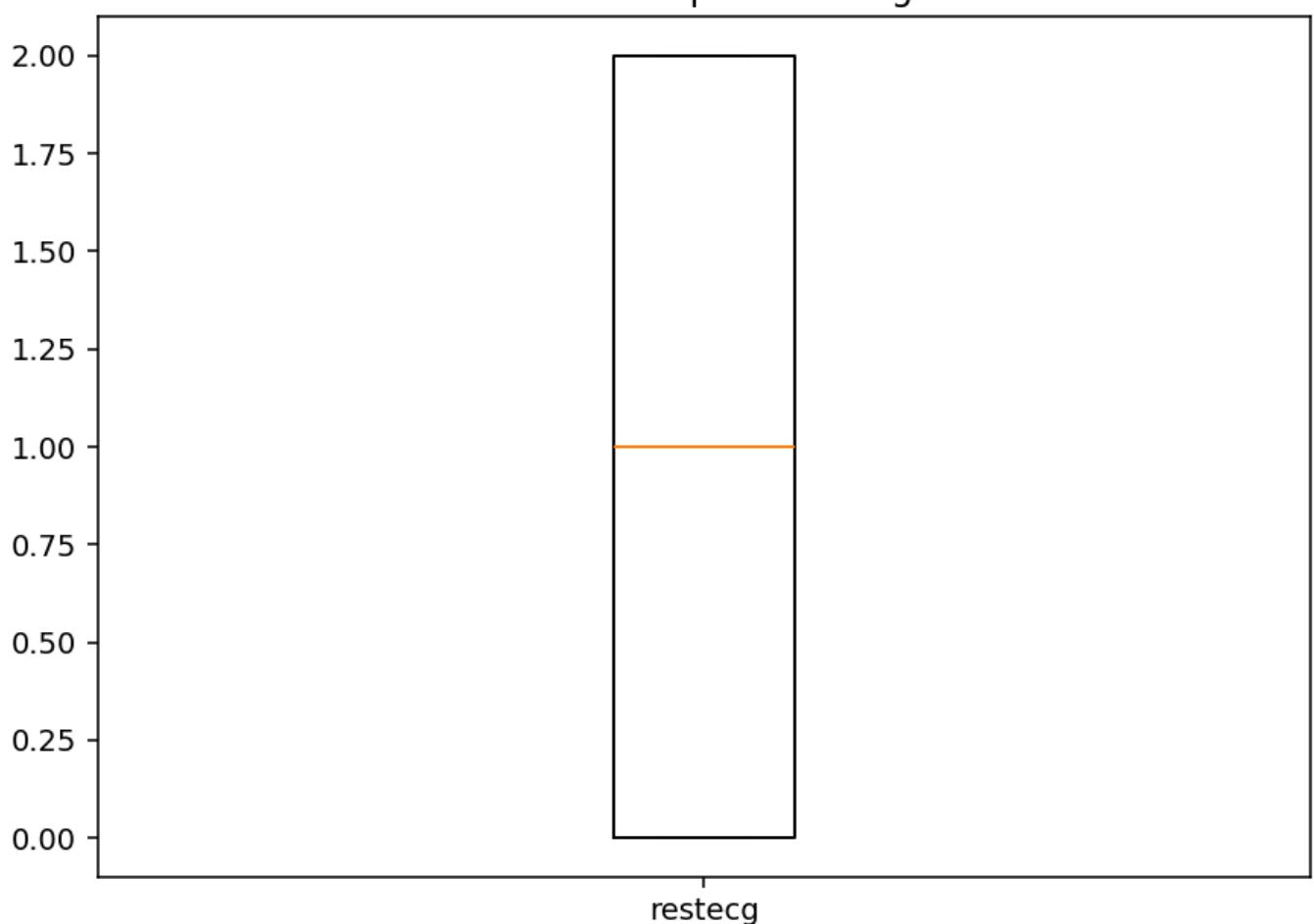
**Histograma: restecg**

heart · Histograma: restecg



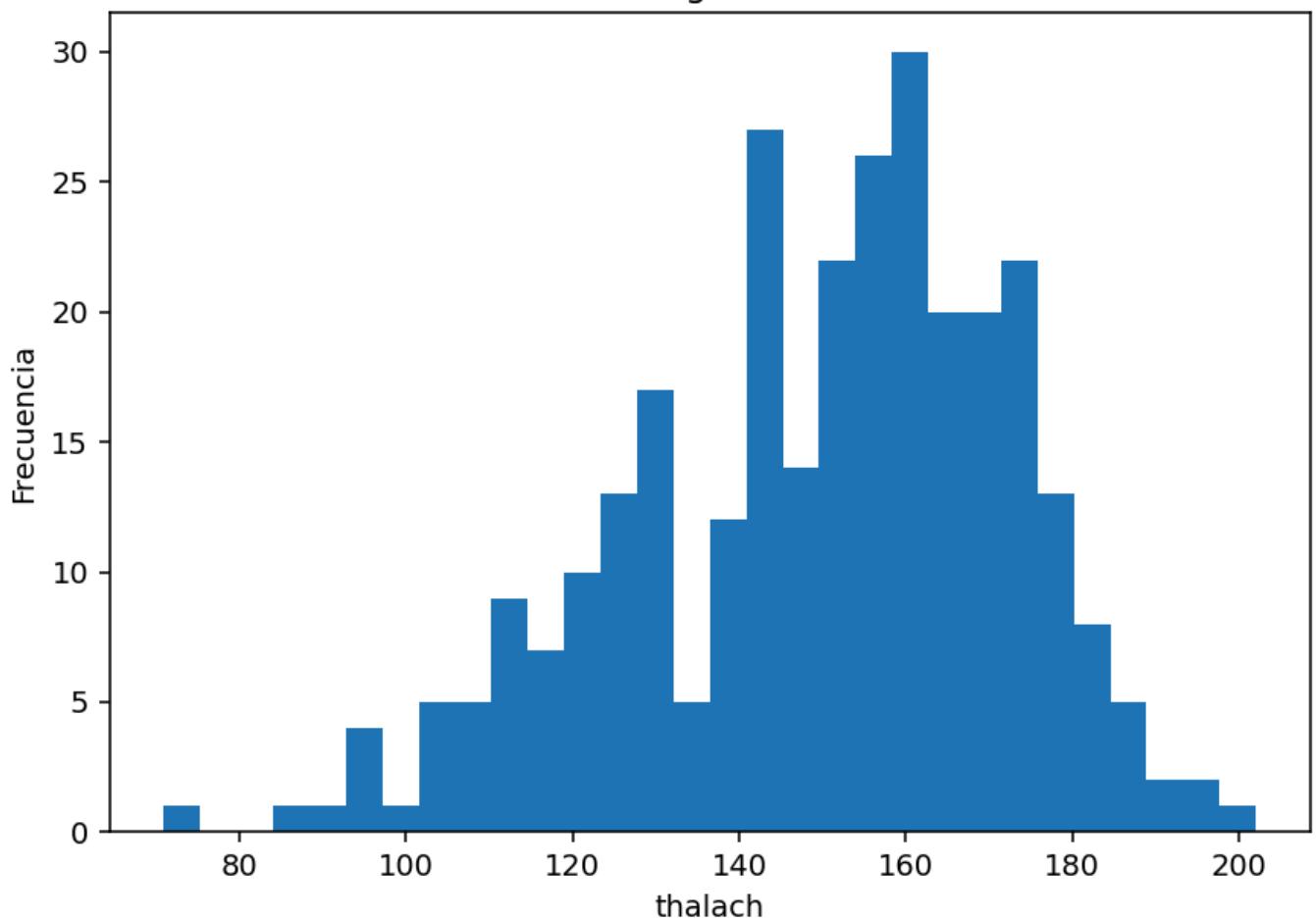
Boxplot: restecg

heart · Boxplot: restecg



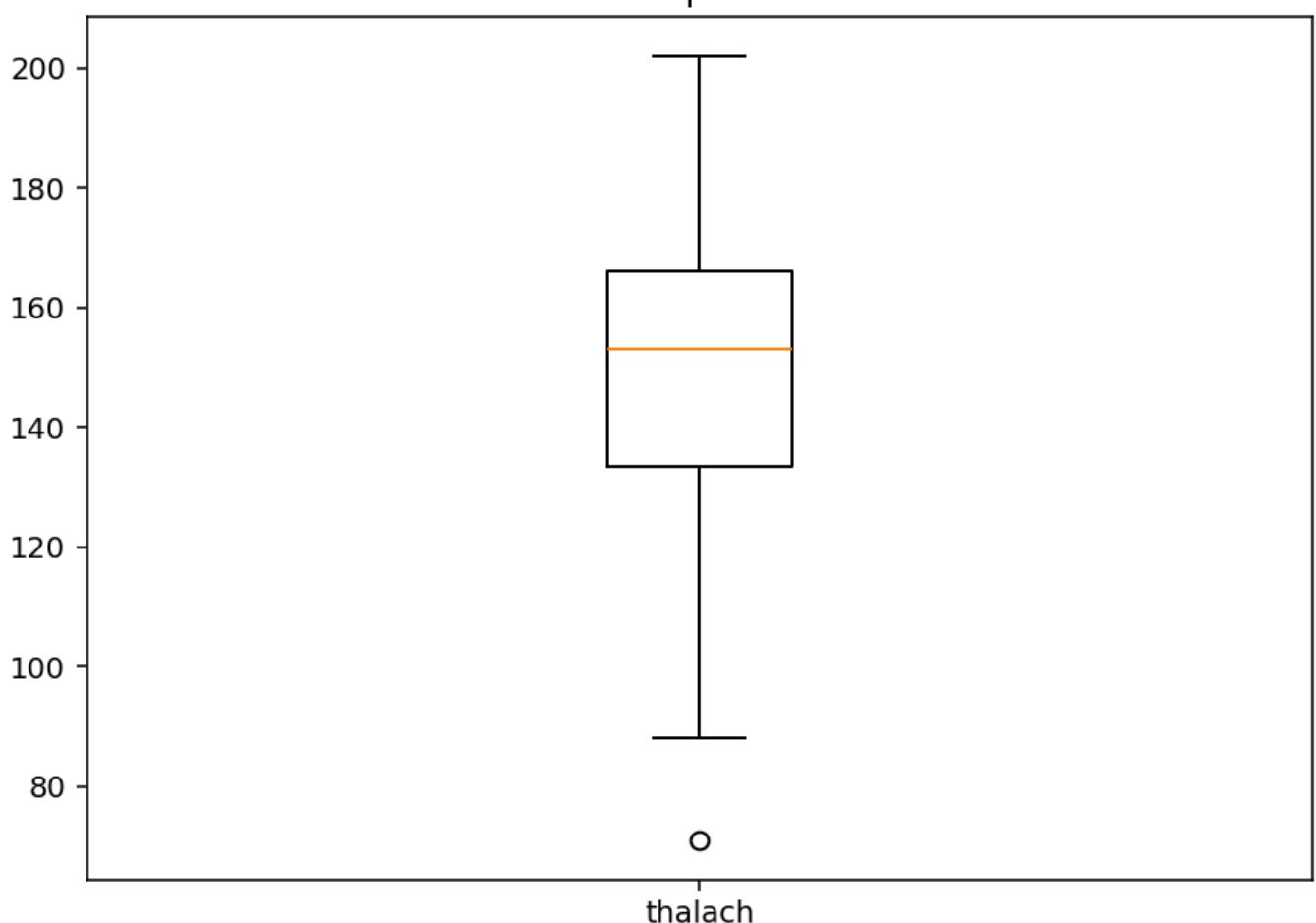
**Histograma: thalach**

heart · Histograma: thalach



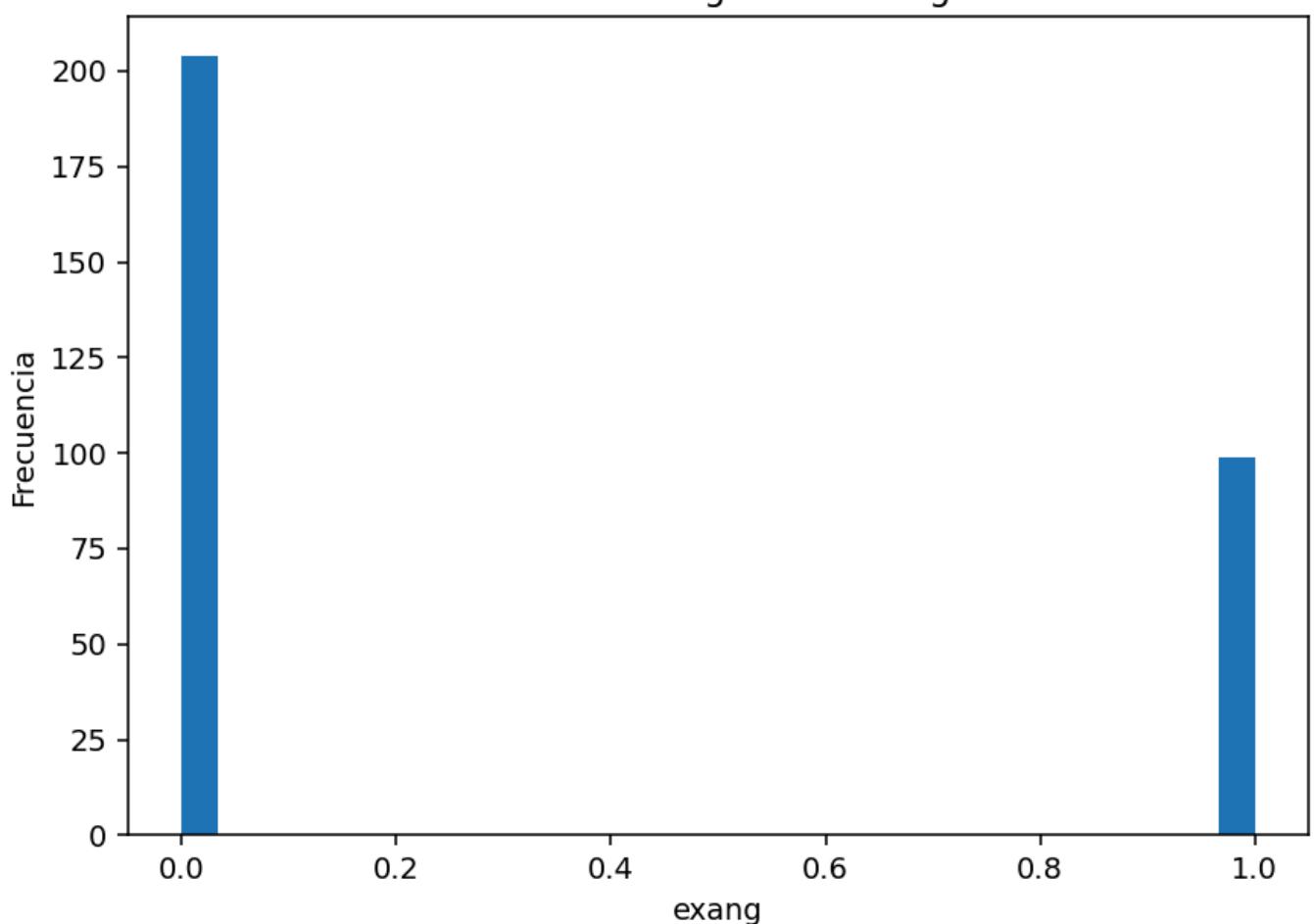
Boxplot: thalach

heart · Boxplot: thalach



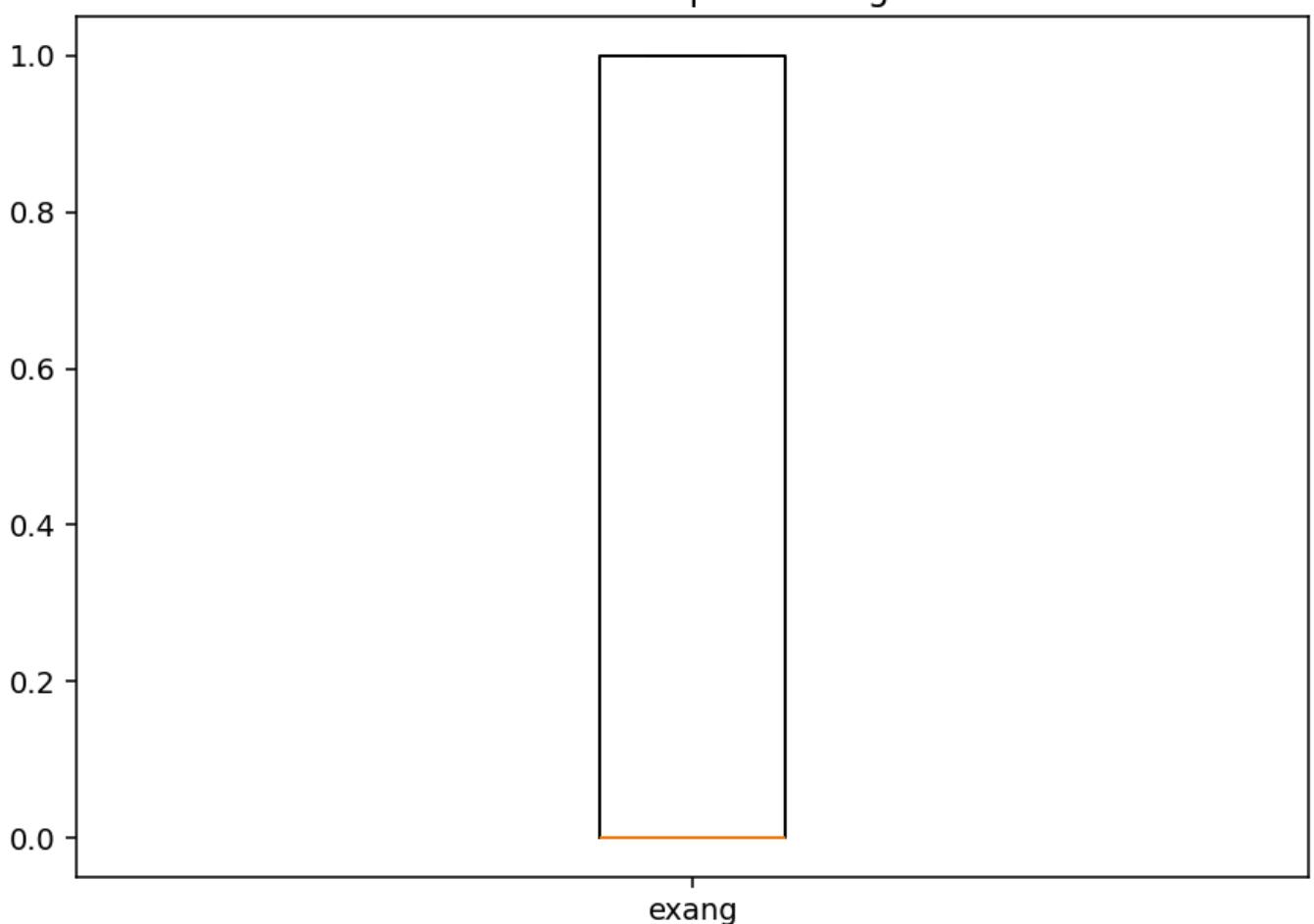
**Histograma: exang**

heart · Histograma: exang



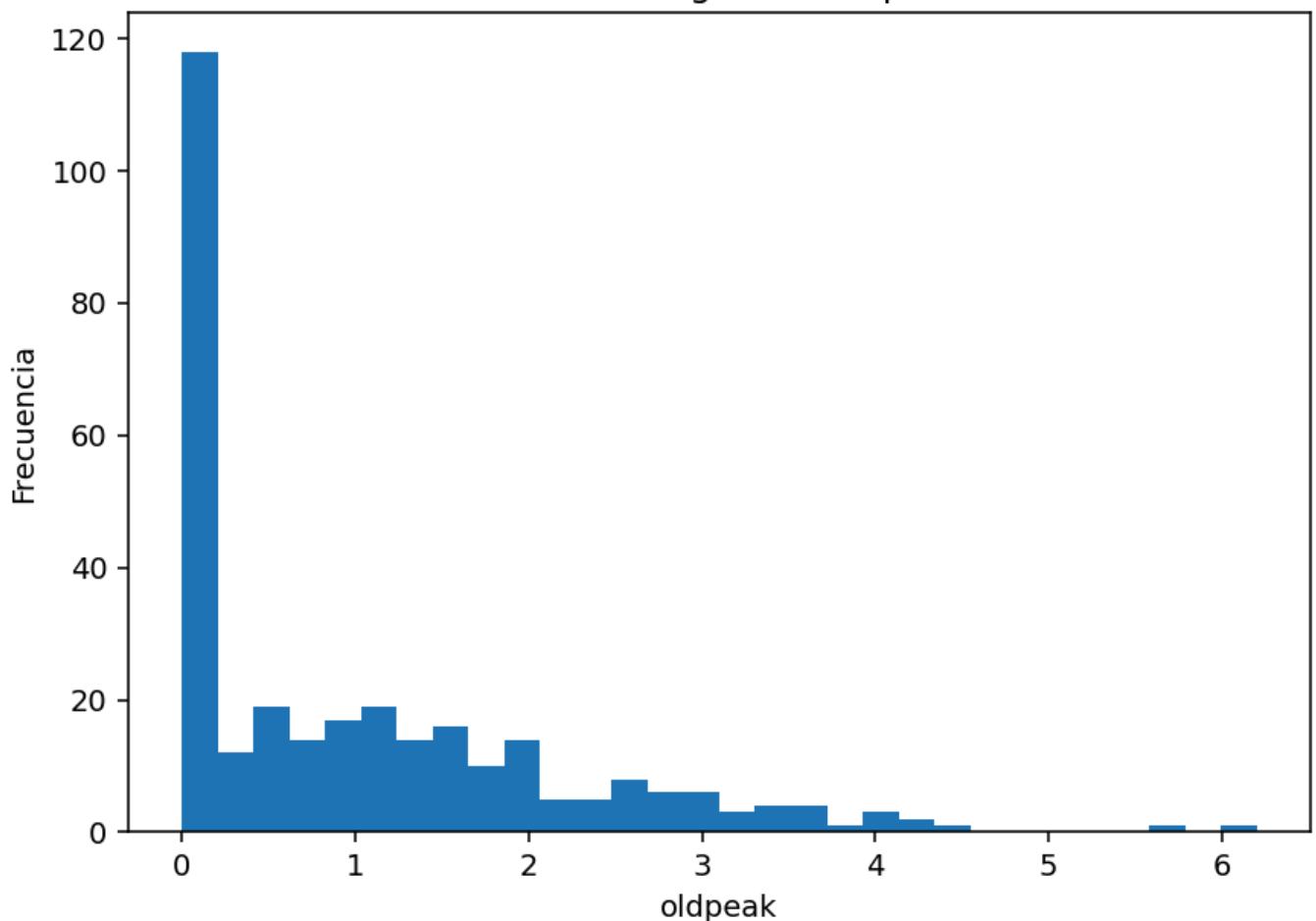
Boxplot: exang

heart · Boxplot: exang



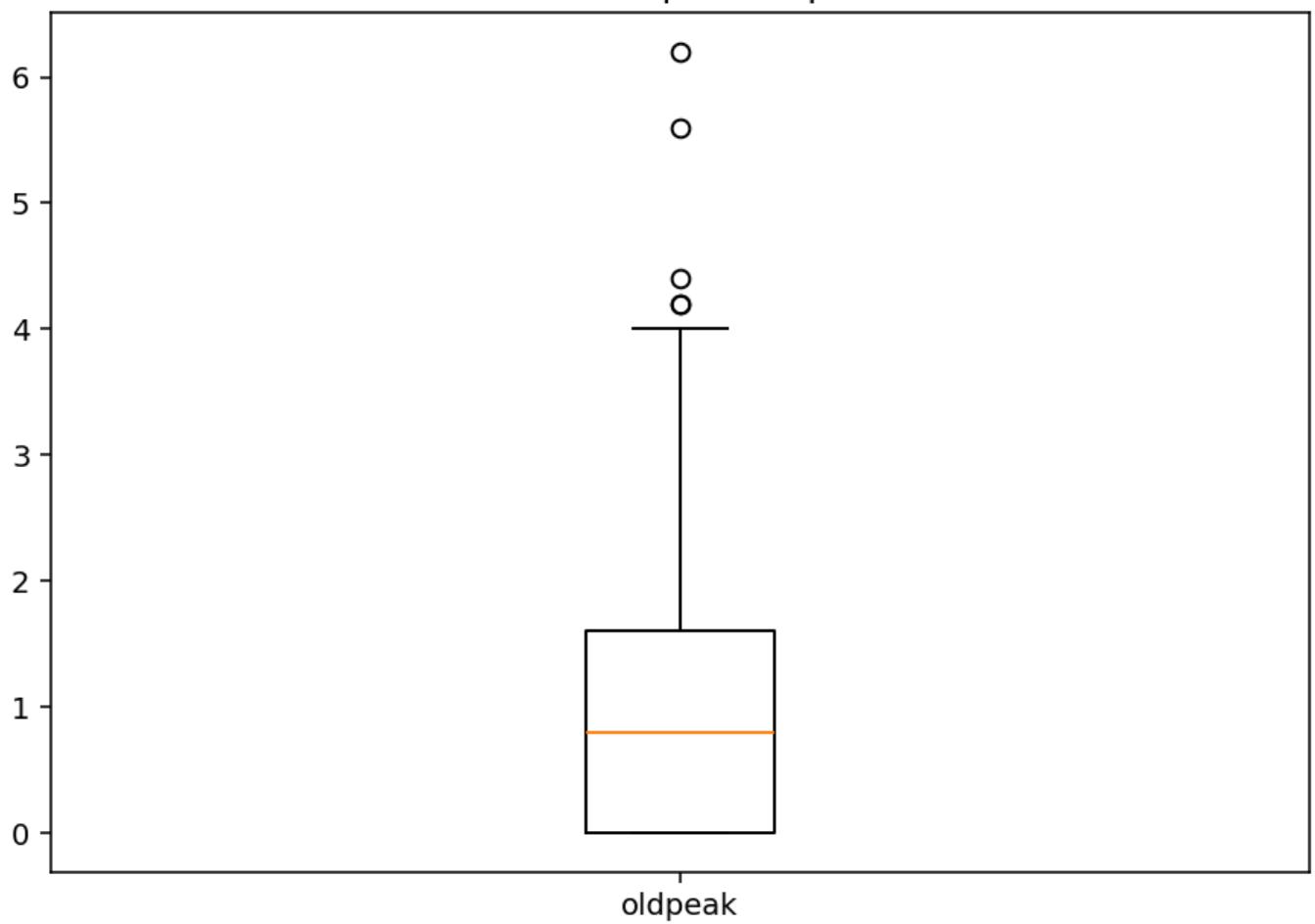
**Histograma: oldpeak**

heart · Histograma: oldpeak



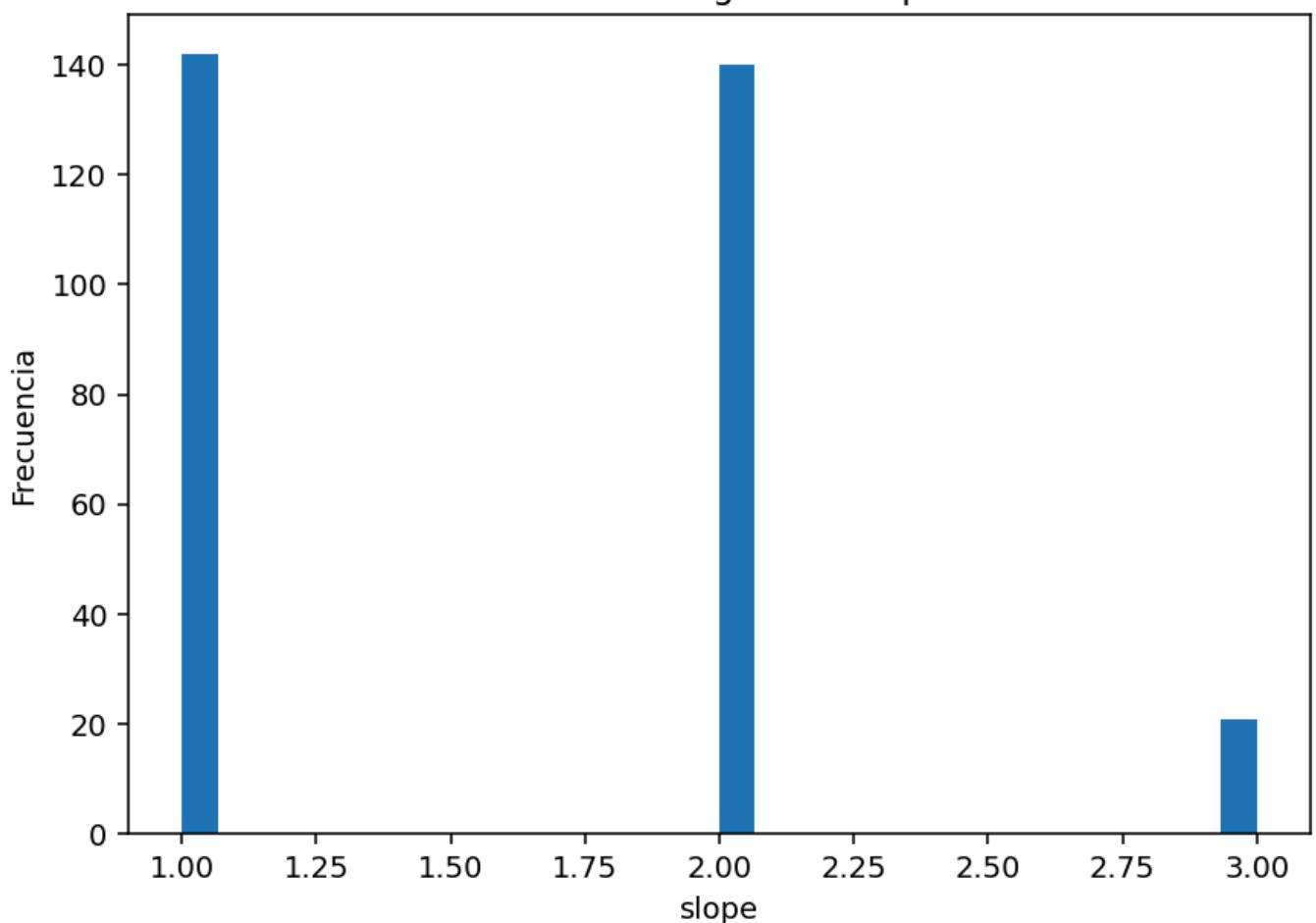
Boxplot: oldpeak

heart · Boxplot: oldpeak



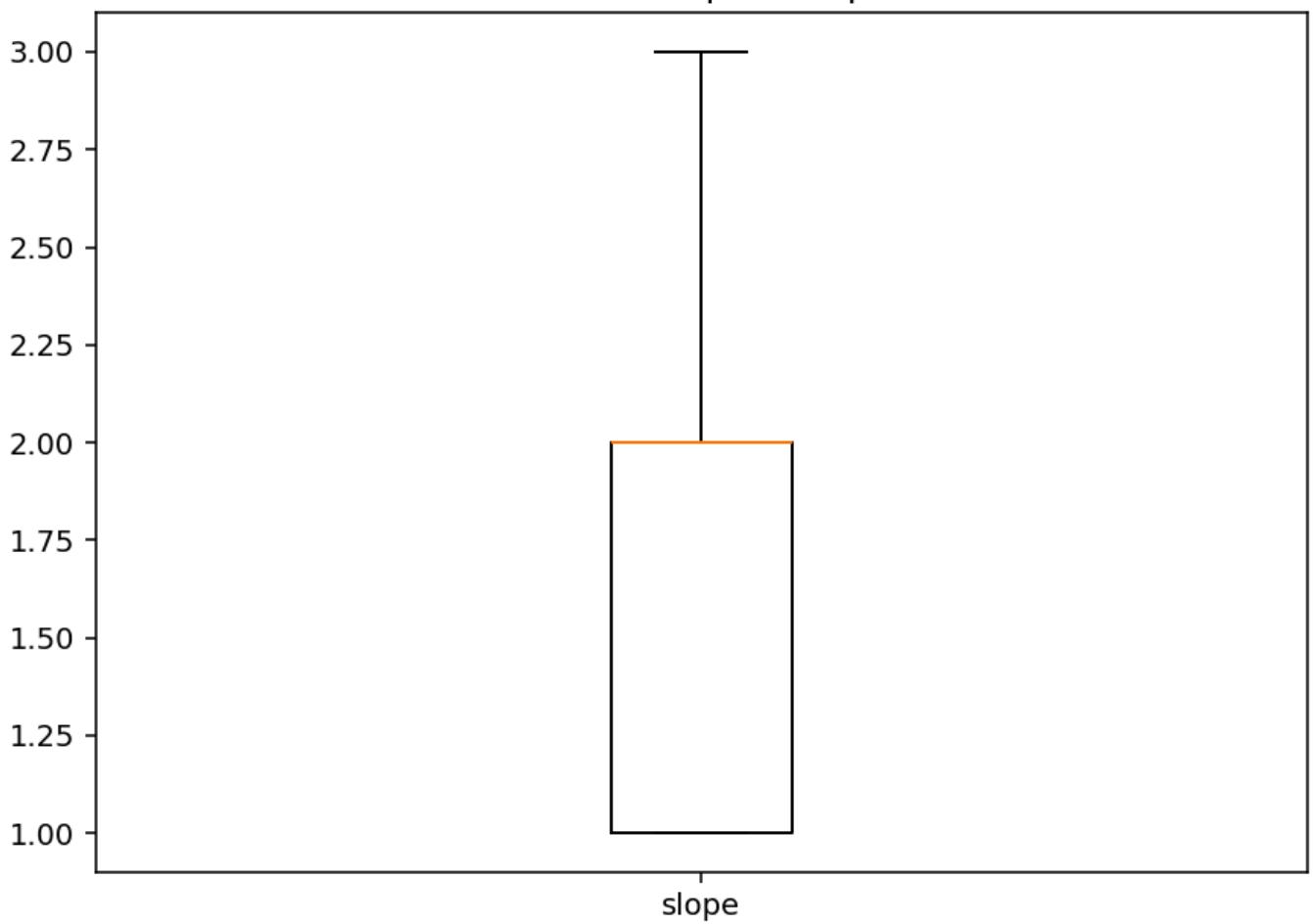
### Histograma: slope

heart · Histograma: slope



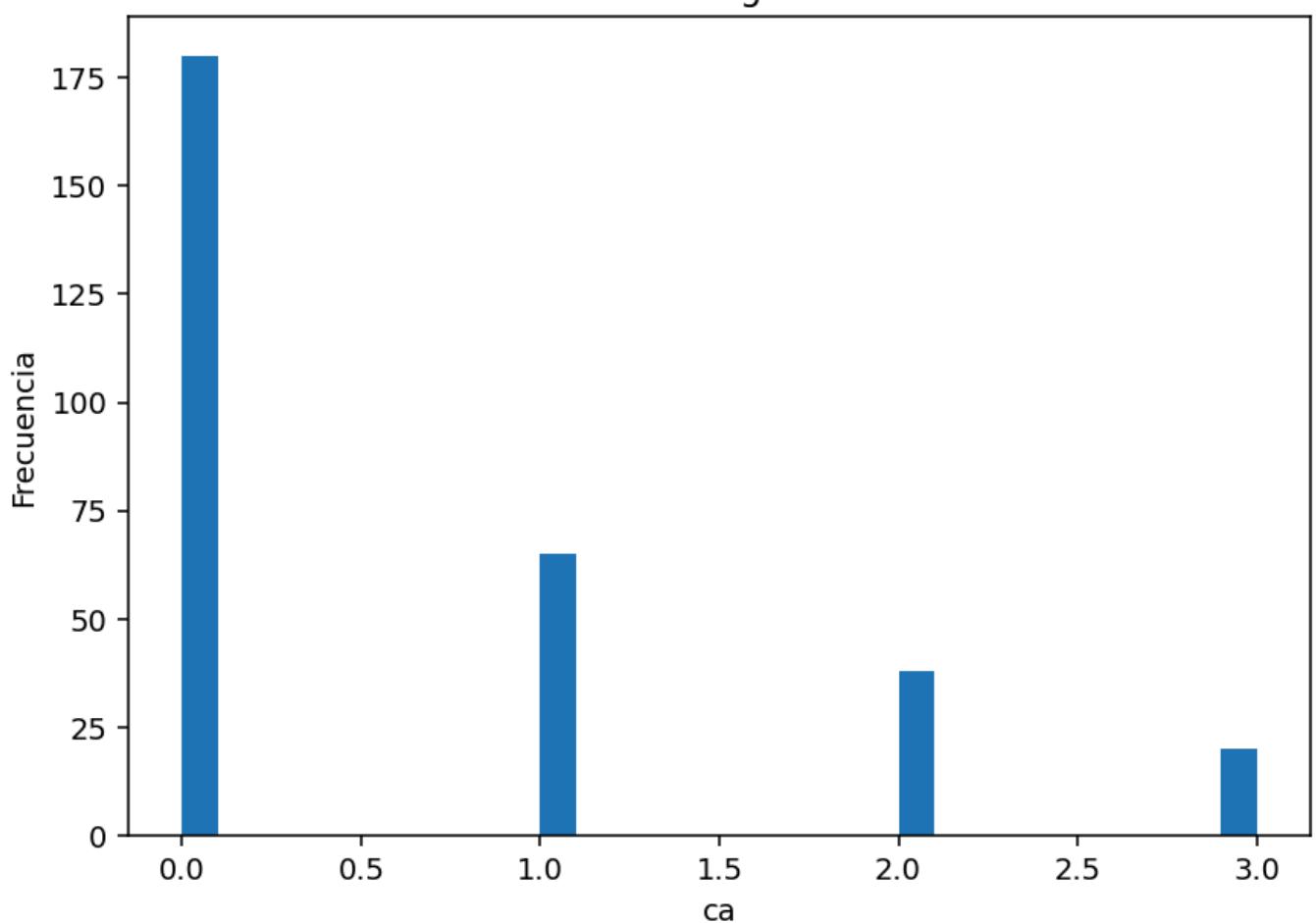
Boxplot: slope

heart · Boxplot: slope



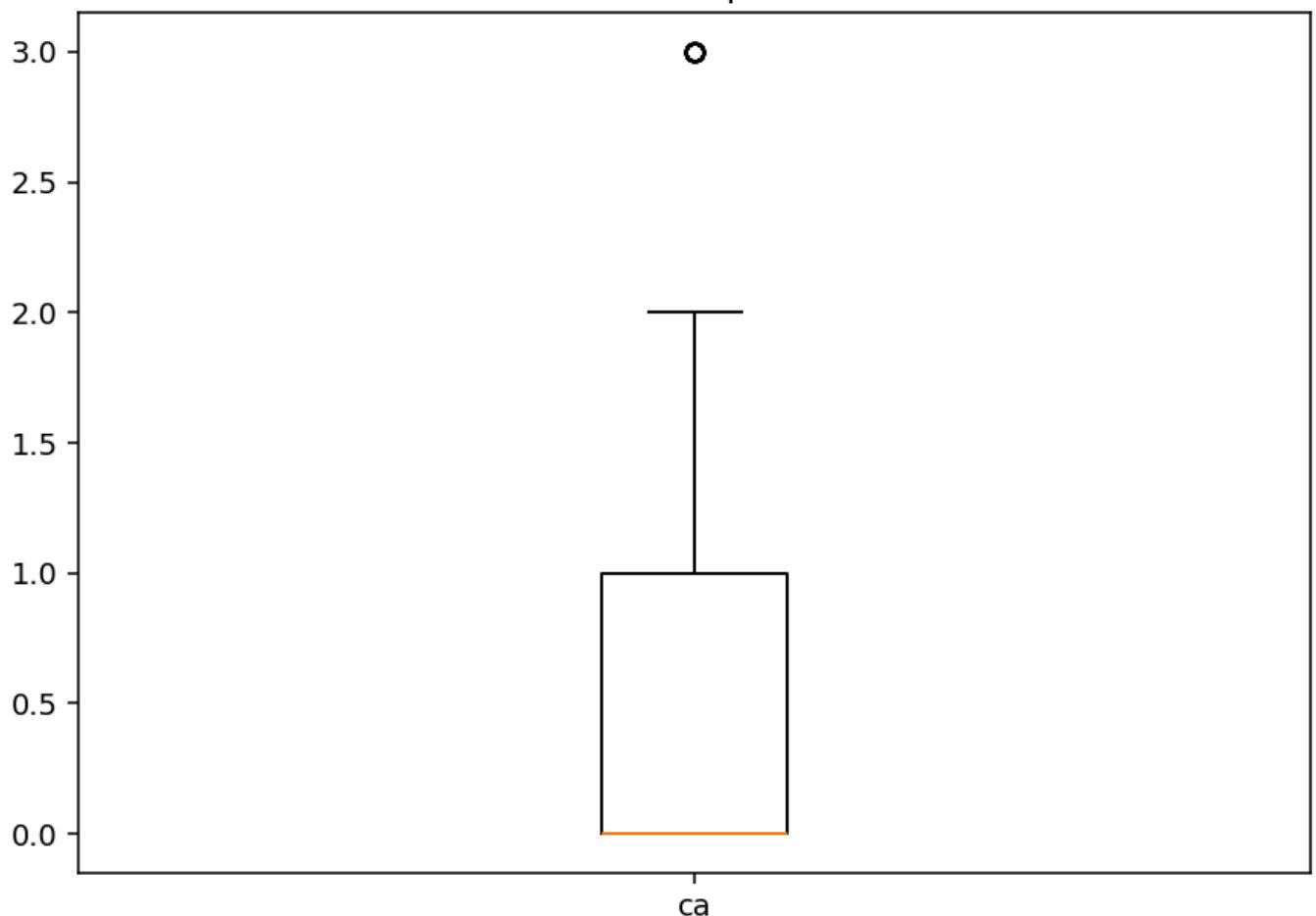
### Histograma: ca

heart · Histograma: ca



Boxplot: ca

heart · Boxplot: ca



## Matriz de correlaciones

heart · Matriz de correlaciones (Pearson)

