

## Regresión logística.

Modelo lineal para predecir el comportamiento de una variable cualitativa con dos categorías de respuesta. Presentación de la asignatura. Páginas 68 a 81.

Fichero de datos para trabajar: kyphosis de la librería rpart.

kyphosis: Data on Children who have had Corrective Spinal Surgery

Description: The kyphosis data frame has 81 rows and 4 columns. representing data on children who have had corrective spinal surgery

Format: This data frame contains the following columns:

- Kyphosis: a factor with levels absent present indicating if a kyphosis (a type of deformation) was present after the operation.
- Age: in months
- Number: the number of vertebrae involved
- Start: the number of the first (topmost) vertebra operated on.

Objective: To predict the efficacy of the surgery taking into account Age, Number, Start

Source: John M. Chambers and Trevor J. Hastie eds. (1992) Statistical Models in S, Wadsworth and Brooks/Cole, Pacific Grove, CA.

## Para cargar los datos del ejemplo:

```
library(rpart)
```

```
head(kyphosis) ## muestra los primeros casos del fichero
```

```
summary(kyphosis) ## describe las variables del fichero
```

```
## Etapas del análisis:
```

```
## Describir las variables
```

```
## Analizar las relaciones entre las variables Age, Number, Start and Kyphosis
```

```
## Utilizar la regresión logística para predecir Kyphosis
```

```
## Comentar los resultados
```