

# Case: Brain

## Story

The dataset *brainweight* contains measurements of the weight of both brain and body for different mammals

## Variables

variable name	description
art	type of mammal
body	weight of body (kg)
brain	weight of brain (gram)

## Exercise

1. Make a scatterplot of body against brain. Do you see any correlation?
2. Make a log transform of both body and brain. Make a scatterplot of the transformed variables. Compute the correlation.
3. Fit a regression model between  $\log(\text{body})$  and  $\log(\text{brain})$
4. Is there any outlier in the data?
5. How would you evaluate the fit of the model?
6. Save the results of your analysis in a text document (e.g. latex, word or star-office)

## Hints

To make the transformed variables, try

```
brainweight$logbody <- log(brainweight$body)
```

```
brainweight$logbrain <- log(brainweight$brain)
```