

02441 Applied Statistics and Statistical Software

Exercise 2B - Brain

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

Variable name	Description
<code>art</code>	type of mammal
<code>body</code>	weight of body (kg)
<code>brain</code>	weight of brain (gram)

1. Make a scatterplot of body against brain. Do you see any correlation?

Start by loading the data

```
# Code here
```

Plot body against brain

```
# Code here
```

2. Make a log transform of both body and brain. Make a scatterplot of the transformed variables. Compute the correlation.

```
# Code here
```

3. Fit a regression model between $\log(\text{body})$ and $\log(\text{brain})$

```
# Code here
```

4. Is there any outlier in the data?

```
#Code here
```

5. How would you evaluate the fit of the model?

```
# Code here
```