Análise de Regressão em Python

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Capítulo 1

Estudo sobre a variável resposta

```
data.head()
```

```
  species     island  bill_length_mm  bill_depth_mm  flipper_length_mm  \
0  Adelie  Torgersen            39.1           18.7                181
1  Adelie  Torgersen            39.5           17.4                186
2  Adelie  Torgersen            40.3           18.0                195
4  Adelie  Torgersen            36.7           19.3                193
5  Adelie  Torgersen            39.3           20.6                190

   body_mass_g     sex  year
0         3750    male  2007
1         3800  female  2007
2         3250  female  2007
4         3450  female  2007
5         3650    male  2007
```

```
data.shape
```

```
(333, 8)
```

```
data.describe()
```

```
       bill_length_mm  bill_depth_mm  flipper_length_mm   body_mass_g  \
count      333.000000     333.000000         333.000000    333.000000
mean        43.992793      17.164865         200.966967   4207.057057
std          5.468668       1.969235          14.015765    805.215802
min         32.100000      13.100000         172.000000   2700.000000
25%         39.500000      15.600000         190.000000   3550.000000
50%         44.500000      17.300000         197.000000   4050.000000
75%         48.600000      18.700000         213.000000   4775.000000
max         59.600000      21.500000         231.000000   6300.000000

              year
count    333.000000
```

```
mean    2008.042042
std        0.812944
min     2007.000000
25%     2007.000000
50%     2008.000000
75%     2009.000000
max     2009.000000
```

{'whiskers': [<matplotlib.lines.Line2D object at 0x0000023189370110>, <matplotlib.lines.Line2D object