

Penguins

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The Gentoo penguins can be found on the island(s) of: Biscoe. The total number of Gentoo penguins in the dataset is 124.

Let us analyse the Gentoo penguins by island. The results for each island are shown below.

Analysis for Biscoe

The summary statistics of penguins on Biscoe is given in Table 1 and a scatter plot of bill dimensions is shown in ?@fig-penguins-Biscoe.

Next, we fit a linear model to predict bill depth from bill length and sex of the penguins on Biscoe. The results are summarized below in Table 2.

Table 1: Summary statistics for penguins on Biscoe

sex		N	mean	sd
female	body_mass_g	58	4679.74	281.58
	bill_length_mm	58	45.56	2.05
	bill_depth_mm	58	14.24	0.54
male	body_mass_g	61	5484.84	313.16
	bill_length_mm	61	49.47	2.72
	bill_depth_mm	61	15.72	0.74

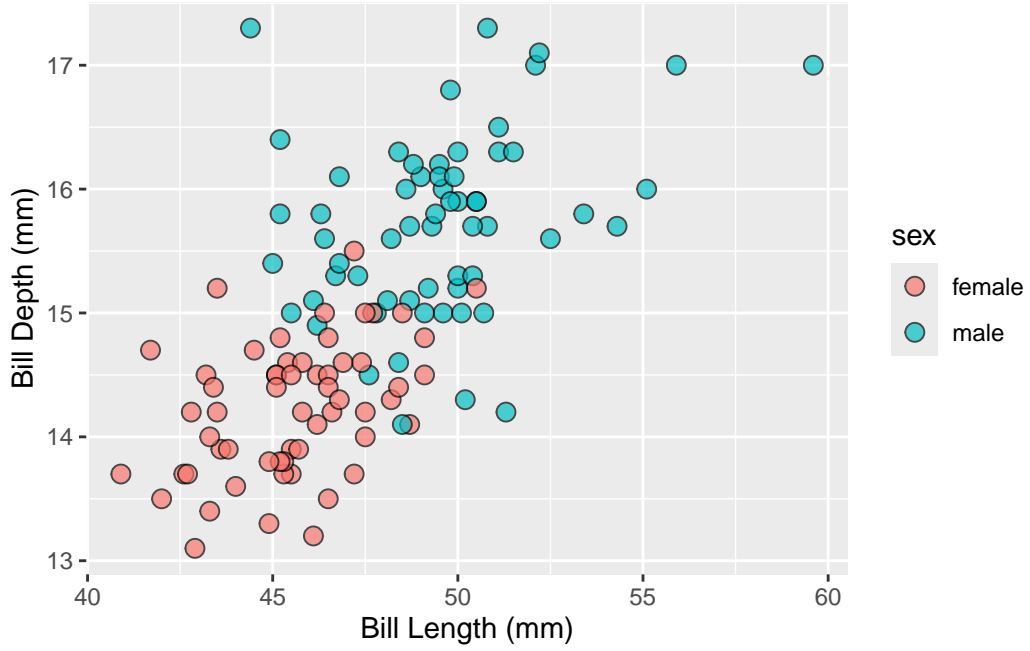


Figure 1: Scatter plot of bill dimensions for penguins on Biscoe

Table 2: Regression results for penguins on Biscoe

	(1)
(Intercept)	9.954 (1.070)
bill_length_mm	0.094 (0.023)
sexmale	1.113 (0.145)
Num.Obs.	119
R2	0.620
R2 Adj.	0.614
AIC	226.1
BIC	237.2
Log.Lik.	−109.032
F	94.811
RMSE	0.60