

# Penguins Report

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2022-01-23

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# **1 Set Up**

## **1.1 Chunk Settings**

## **1.2 Packages**

## **1.3 knitr settings**

## 2 Raw Data

### 2.1 Default Column Names

species	island	bill_length_mm	bill_depth_mm	flipper_length_mm	body_mass_g	sex	year
Adelie	Torgersen	39.1	18.7	181	3750	male	2007
Adelie	Torgersen	39.5	17.4	186	3800	female	2007
Adelie	Torgersen	40.3	18.0	195	3250	female	2007
Adelie	Torgersen						2007
Adelie	Torgersen	36.7	19.3	193	3450	female	2007
Adelie	Torgersen	39.3	20.6	190	3650	male	2007
Adelie	Torgersen	38.9	17.8	181	3625	female	2007
Adelie	Torgersen	39.2	19.6	195	4675	male	2007
Adelie	Torgersen	34.1	18.1	193	3475		2007
Adelie	Torgersen	42.0	20.2	190	4250		2007
Adelie	Torgersen	37.8	17.1	186	3300		2007
Adelie	Torgersen	37.8	17.3	180	3700		2007
Adelie	Torgersen	41.1	17.6	182	3200	female	2007
Adelie	Torgersen	38.6	21.2	191	3800	male	2007
Adelie	Torgersen	34.6	21.1	198	4400	male	2007
Adelie	Torgersen	36.6	17.8	185	3700	female	2007
Adelie	Torgersen	38.7	19.0	195	3450	female	2007
Adelie	Torgersen	42.5	20.7	197	4500	male	2007
Adelie	Torgersen	34.4	18.4	184	3325	female	2007
Adelie	Torgersen	46.0	21.5	194	4200	male	2007
Adelie	Biscoe	37.8	18.3	174	3400	female	2007
Adelie	Biscoe	37.7	18.7	180	3600	male	2007
Adelie	Biscoe	35.9	19.2	189	3800	female	2007
Adelie	Biscoe	38.2	18.1	185	3950	male	2007
Adelie	Biscoe	38.8	17.2	180	3800	male	2007
Adelie	Biscoe	35.3	18.9	187	3800	female	2007
Adelie	Biscoe	40.6	18.6	183	3550	male	2007
Adelie	Biscoe	40.5	17.9	187	3200	female	2007
Adelie	Biscoe	37.9	18.6	172	3150	female	2007
Adelie	Biscoe	40.5	18.9	180	3950	male	2007
Adelie	Dream	39.5	16.7	178	3250	female	2007
Adelie	Dream	37.2	18.1	178	3900	male	2007

(continued)

species	island	bill_length_mm	bill_depth_mm	flipper_length_mm	body_mass_g	sex	year
Adelie	Dream	39.5	17.8	188	3300	female	2007
Adelie	Dream	40.9	18.9	184	3900	male	2007
Adelie	Dream	36.4	17.0	195	3325	female	2007
Adelie	Dream	39.2	21.1	196	4150	male	2007
Adelie	Dream	38.8	20.0	190	3950	male	2007
Adelie	Dream	42.2	18.5	180	3550	female	2007
Adelie	Dream	37.6	19.3	181	3300	female	2007
Adelie	Dream	39.8	19.1	184	4650	male	2007
Adelie	Dream	36.5	18.0	182	3150	female	2007
Adelie	Dream	40.8	18.4	195	3900	male	2007
Adelie	Dream	36.0	18.5	186	3100	female	2007
Adelie	Dream	44.1	19.7	196	4400	male	2007
Adelie	Dream	37.0	16.9	185	3000	female	2007
Adelie	Dream	39.6	18.8	190	4600	male	2007
Adelie	Dream	41.1	19.0	182	3425	male	2007
Adelie	Dream	37.5	18.9	179	2975		2007
Adelie	Dream	36.0	17.9	190	3450	female	2007
Adelie	Dream	42.3	21.2	191	4150	male	2007

## 2.2 Custom Column Names

species	island	bill length mm	bill depth mm	flipper length mm	body mass g	sex	year
Adelie	Torgersen	39.1	18.7	181	3750	male	2007
Adelie	Torgersen	39.5	17.4	186	3800	female	2007
Adelie	Torgersen	40.3	18.0	195	3250	female	2007
Adelie	Torgersen						2007
Adelie	Torgersen	36.7	19.3	193	3450	female	2007
Adelie	Torgersen	39.3	20.6	190	3650	male	2007
Adelie	Torgersen	38.9	17.8	181	3625	female	2007
Adelie	Torgersen	39.2	19.6	195	4675	male	2007
Adelie	Torgersen	34.1	18.1	193	3475		2007
Adelie	Torgersen	42.0	20.2	190	4250		2007

(continued)

species	island	bill length mm	bill depth mm	flipper length mm	body mass g	sex	year
Adelie	Torgersen	37.8	17.1	186	3300		2007
Adelie	Torgersen	37.8	17.3	180	3700		2007
Adelie	Torgersen	41.1	17.6	182	3200	female	2007
Adelie	Torgersen	38.6	21.2	191	3800	male	2007
Adelie	Torgersen	34.6	21.1	198	4400	male	2007
Adelie	Torgersen	36.6	17.8	185	3700	female	2007
Adelie	Torgersen	38.7	19.0	195	3450	female	2007
Adelie	Torgersen	42.5	20.7	197	4500	male	2007
Adelie	Torgersen	34.4	18.4	184	3325	female	2007
Adelie	Torgersen	46.0	21.5	194	4200	male	2007
Adelie	Biscoe	37.8	18.3	174	3400	female	2007
Adelie	Biscoe	37.7	18.7	180	3600	male	2007
Adelie	Biscoe	35.9	19.2	189	3800	female	2007
Adelie	Biscoe	38.2	18.1	185	3950	male	2007
Adelie	Biscoe	38.8	17.2	180	3800	male	2007
Adelie	Biscoe	35.3	18.9	187	3800	female	2007
Adelie	Biscoe	40.6	18.6	183	3550	male	2007
Adelie	Biscoe	40.5	17.9	187	3200	female	2007
Adelie	Biscoe	37.9	18.6	172	3150	female	2007
Adelie	Biscoe	40.5	18.9	180	3950	male	2007
Adelie	Dream	39.5	16.7	178	3250	female	2007
Adelie	Dream	37.2	18.1	178	3900	male	2007
Adelie	Dream	39.5	17.8	188	3300	female	2007
Adelie	Dream	40.9	18.9	184	3900	male	2007
Adelie	Dream	36.4	17.0	195	3325	female	2007
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Adelie	Dream	36.5	18.0	182	3150	female	2007
Adelie	Dream	40.8	18.4	195	3900	male	2007
Adelie	Dream	36.0	18.5	186	3100	female	2007
Adelie	Dream	44.1	19.7	196	4400	male	2007

*(continued)*

species	island	bill length mm	bill depth mm	flipper length mm	body mass g	sex	year
Adelie	Dream	37.0	16.9	185	3000	female	2007
Adelie	Dream	39.6	18.8	190	4600	male	2007
Adelie	Dream	41.1	19.0	182	3425	male	2007
Adelie	Dream	37.5	18.9	179	2975		2007
Adelie	Dream	36.0	17.9	190	3450	female	2007
Adelie	Dream	42.3	21.2	191	4150	male	2007

### 3 Summary Data

#### 3.1 Default column names

Characteristic	Adelie, N = 152	Chinstrap, N = 68	Gentoo, N = 124
<b>island</b>			
Biscoe	44 (29%)	0 (0%)	124 (100%)
Dream	56 (37%)	68 (100%)	0 (0%)
Torgersen	52 (34%)	0 (0%)	0 (0%)
<b>bill_length_mm</b>	38.8 (36.8, 40.8)	49.5 (46.3, 51.1)	47.3 (45.3, 49.5)
Unknown	1	0	1
<b>bill_depth_mm</b>	18.40 (17.50, 19.00)	18.45 (17.50, 19.40)	15.00 (14.20, 15.70)
Unknown	1	0	1
<b>flipper_length_mm</b>	190 (186, 195)	196 (191, 201)	216 (212, 221)
Unknown	1	0	1
<b>body_mass_g</b>	3,700 (3,350, 4,000)	3,700 (3,488, 3,950)	5,000 (4,700, 5,500)
Unknown	1	0	1
<b>sex</b>			
female	73 (50%)	34 (50%)	58 (49%)
male	73 (50%)	34 (50%)	61 (51%)
Unknown	6	0	5
<b>year</b>			
2007	50 (33%)	26 (38%)	34 (27%)
2008	50 (33%)	18 (26%)	46 (37%)
2009	52 (34%)	24 (35%)	44 (35%)
<sup>1</sup> n (%); Median (IQR)			

#### 3.2 Custom column names

Characteristic	Adelie N = 152	Chinstrap N = 68	Gentoo N = 124
<b>island</b>			
Biscoe	44 (29%)	0 (0%)	124 (100%)
Dream	56 (37%)	68 (100%)	0 (0%)



(continued)

Characteristic	Adelie N = 152	Chinstrap N = 68	Gentoo N = 124
Torgersen	52 (34%)	0 (0%)	0 (0%)
<b>bill_length_mm</b>	38.8 (36.8, 40.8)	49.5 (46.3, 51.1)	47.3 (45.3, 49.5)
Unknown	1	0	1
<b>bill_depth_mm</b>	18.40 (17.50, 19.00)	18.45 (17.50, 19.40)	15.00 (14.20, 15.70)
Unknown	1	0	1
<b>flipper_length_mm</b>	190 (186, 195)	196 (191, 201)	216 (212, 221)
Unknown	1	0	1
<b>body_mass_g</b>	3,700 (3,350, 4,000)	3,700 (3,488, 3,950)	5,000 (4,700, 5,500)
Unknown	1	0	1
<b>sex</b>			
female	73 (50%)	34 (50%)	58 (49%)
male	73 (50%)	34 (50%)	61 (51%)
Unknown	6	0	5
<b>year</b>			
2007	50 (33%)	26 (38%)	34 (27%)
2008	50 (33%)	18 (26%)	46 (37%)
2009	52 (34%)	24 (35%)	44 (35%)

<sup>1</sup> Median (IQR); n (%)