

Palmer Penguins Dataset

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```
qui reproto, project("modern_stata") roots("here")
use "$here/data/penguins.dta", clear
```

```
twoway (hist body_mass if species == 1, color(orange%40)) ///
      (hist body_mass if species == 2, color(emerald%40)) ///
      (hist body_mass if species == 3, color(purple%40)), ///
      xtitle("Body Mass (g)") ytitle("Frequency") ///
      legend(order(1 "Adelie" 2 "Chinstrap" 3 "Gentoo") pos(1) ring(0)
col(1)) ///
      plotregion(fcolor(white)) graphregion(fcolor(white))
```

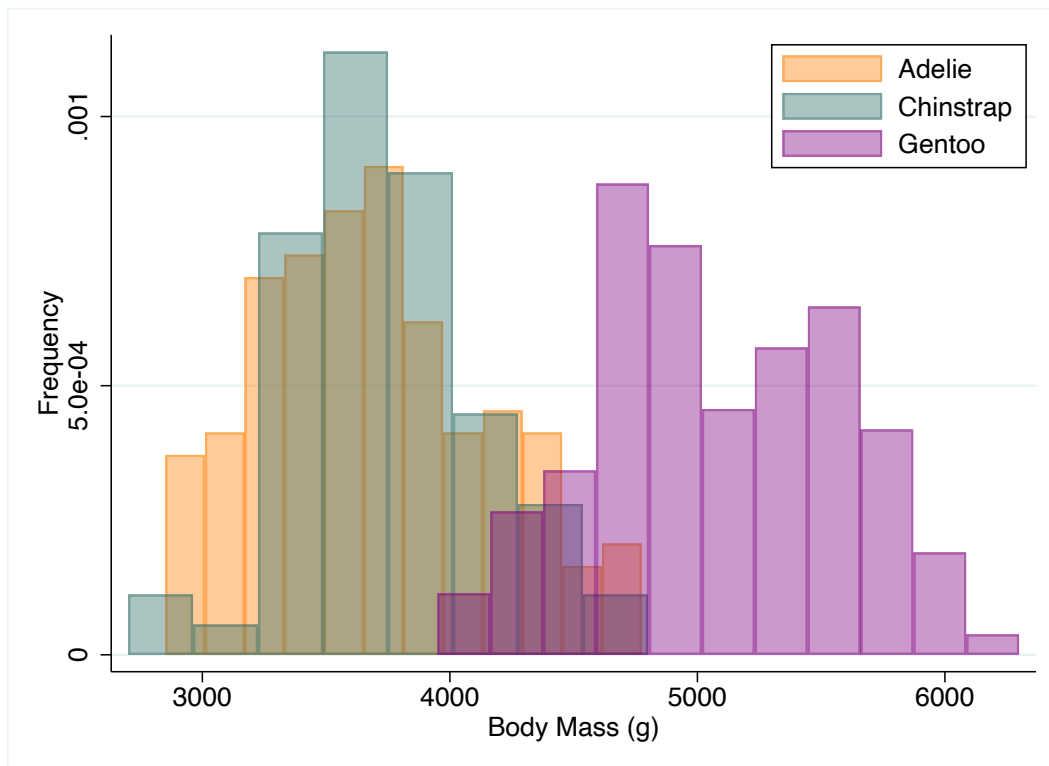


Figure 1: Histogram of Body Mass by Species

```

cap drop body_mass?
qui separate body_mass, by(species)
twoway scatter body_mass? flipper_len, ///
    mcolor(orange emerald purple) mlab("") ///
    msymbol(0 T S) ///
    xtitle("Flipper Length (mm)") ytitle("Body Mass (g)") ///
    legend(order(1 "Adelie" 2 "Chinstrap" 3 "Gentoo") pos(11) ring(0)
col(1)) ///
    plotregion(fcolor(white)) graphregion(fcolor(white))

```

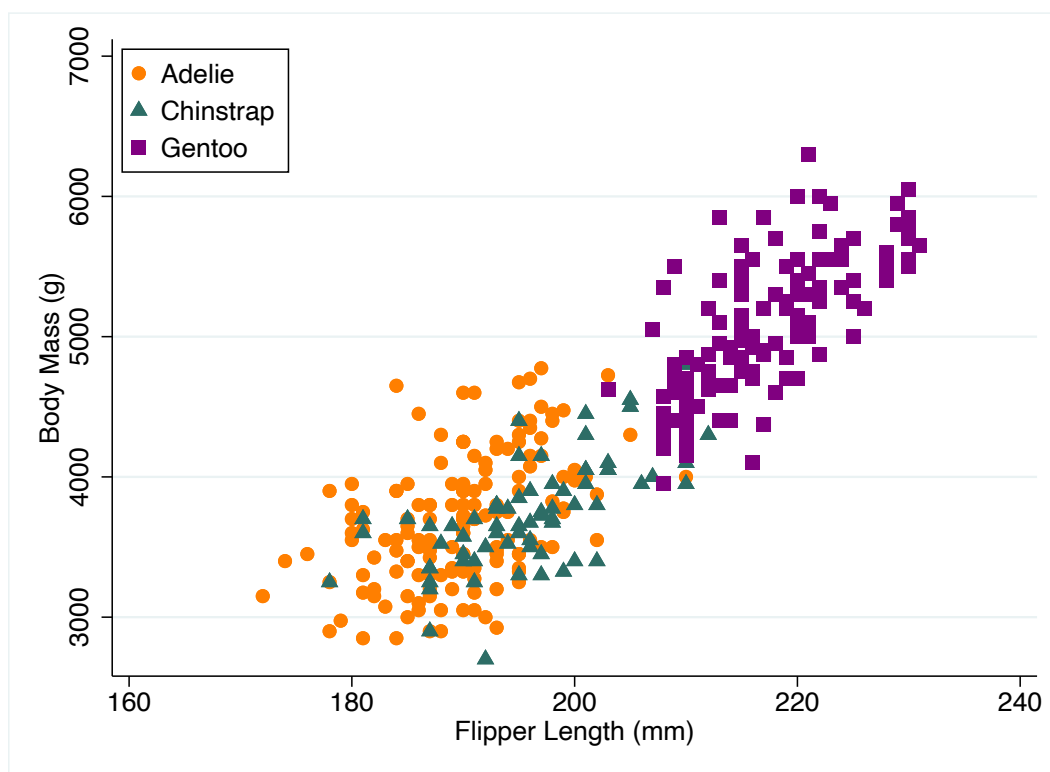


Figure 2: Body Mass vs. Flipper Length by Species

```

qui{
    eststo clear
    eststo: reg bill_len i.species, robust
    eststo: reg bill_len i.species sex, robust
    eststo: reg bill_len i.species sex year, robust
}
esttab

```

(1) (2) (3)

	bill_len	bill_len	bill_len
1.species	0 (.)	0 (.)	0 (.)
2.species	10.04*** (21.91)	10.01*** (28.61)	10.04*** (28.60)
3.species	8.713*** (24.71)	8.698*** (30.53)	8.693*** (30.82)
sex		3.694*** (14.54)	3.694*** (14.61)
year			0.324* (2.02)
_cons	38.79*** (178.78)	33.28*** (81.19)	-617.9 (-1.92)
N	342	333	333

t statistics in parentheses
 * p<0.05, ** p<0.01, *** p<0.001

```

qui{
  eststo clear
  eststo: reg body_mass i.species, robust
  eststo: reg body_mass i.species sex, robust
  eststo: reg body_mass i.species sex year, robust
}
esttab

```

	(1) body_mass	(2) body_mass	(3) body_mass
1.species	0 (.)	0 (.)	0 (.)
2.species	32.43 (0.54)	26.92 (0.55)	27.23 (0.55)
3.species	1375.4*** (23.37)	1377.9*** (36.24)	1377.8*** (36.15)

sex		667.6*** (19.25)	667.6*** (19.22)
year			3.629 (0.17)
_cons	3700.7*** (99.06)	2704.8*** (49.92)	-4582.9 (-0.11)

N	342	333	333

t statistics in parentheses
 * p<0.05, ** p<0.01, *** p<0.001