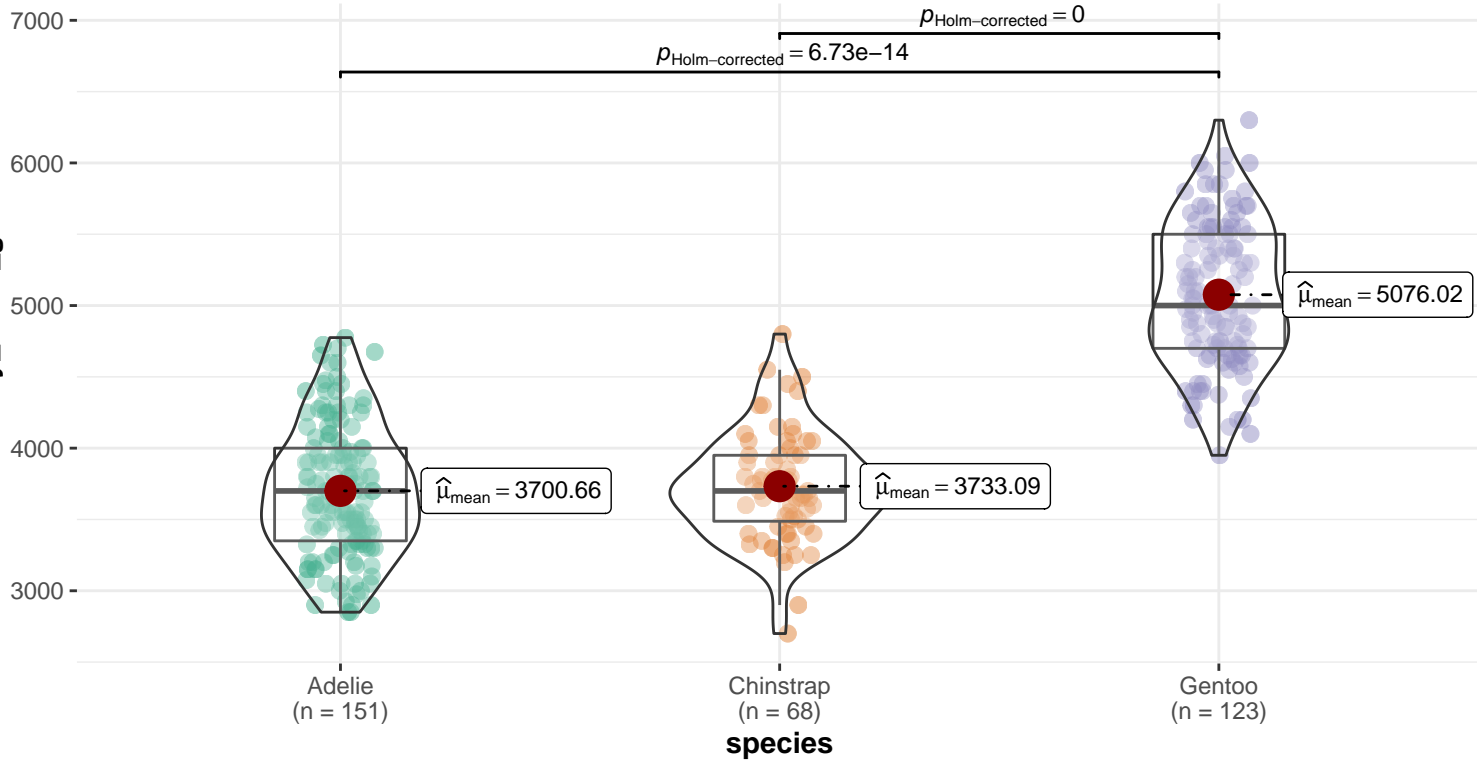$F_{\text{Welch}}(2,189.48) = 317.57$, $p = 3.09\text{e}{-61}$, $\widehat{\omega}_p^2 = 0.77$, $\text{CI}_{95\%}$ [0.71, 0.81], $n_{\text{obs}} = 342$

$p_{\text{Holm-corrected}} = 0$

$p_{\text{Holm-corrected}} = 6.73\text{e}{-14}$

$\widehat{\mu}_{\text{mean}} = 5076.02$

$\widehat{\mu}_{\text{mean}} = 3700.66$

$\widehat{\mu}_{\text{mean}} = 3733.09$

Adelie
(n = 151)

Chinstrap
(n = 68)

Gentoo
(n = 123)

species

$\log_e(\text{BF}_{01}) = -181.11$, $\widehat{R^2}_{\text{Bayesian}}^{\text{posterior}} = 0.67$, $\text{CI}_{95\%}^{\text{HDI}}$ [0.63, 0.70], $r_{\text{Cauchy}}^{\text{JZS}} = 0.71$

Pairwise test: **Games–Howell test**; Comparisons shown: **only significant**