## **Putting plots together**

Abhijit Dasgupta, PhD

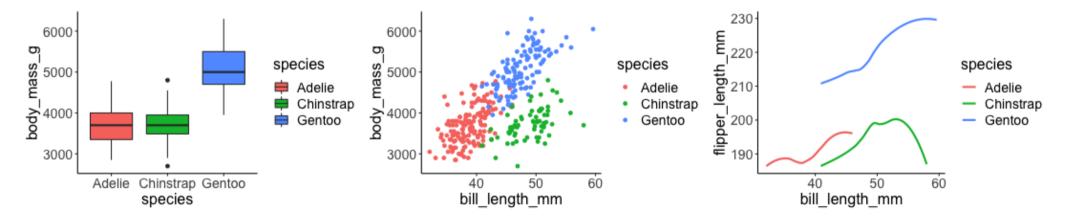
# Putting plots together

#### The packages

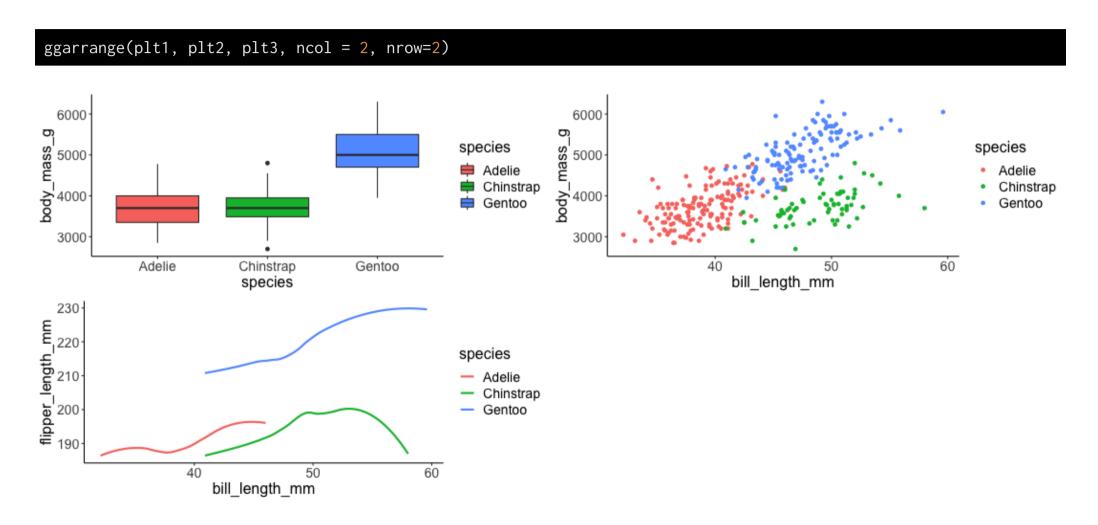
There are three excellent packages for putting separate ggplot graphs together in panels.

- 1. ggpubr
- 2. cowplot
- 3. patchwork

#### The graphs



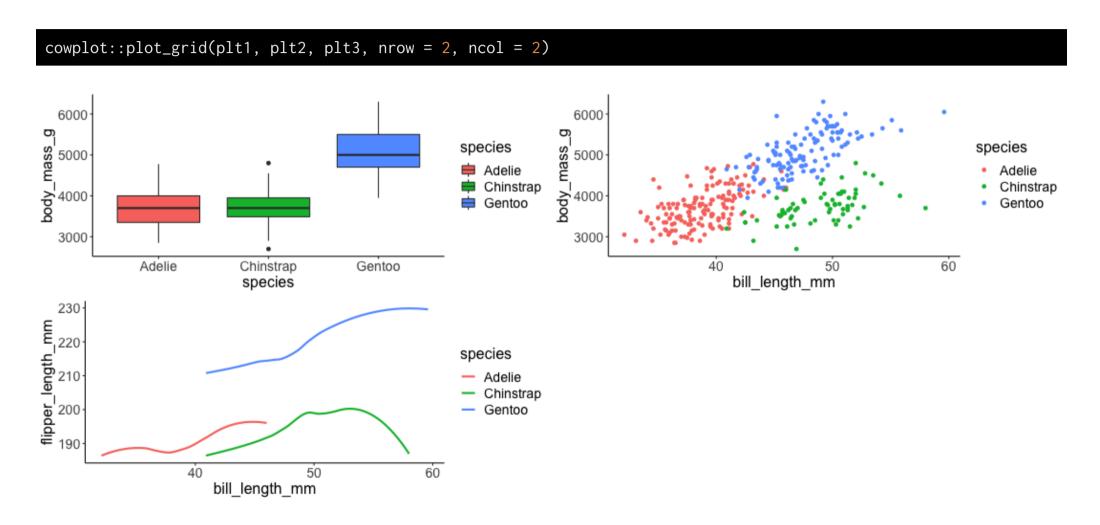
## ggpubr



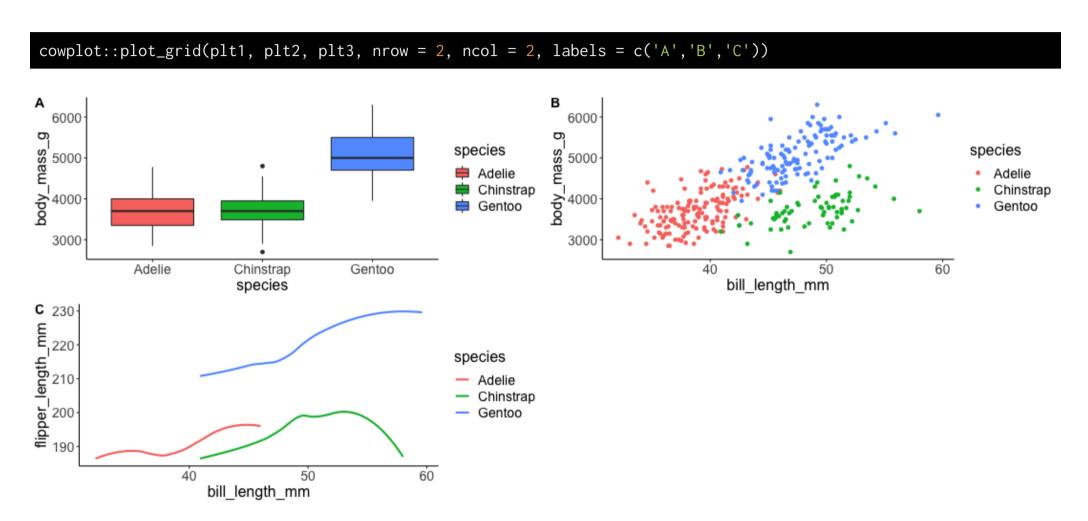
## ggpubr

ggarrange(plt1, plt2, plt3, ncol = 2, nrow=2, common.legend = TRUE) species = Adelie = Chinstrap = Gentoo 6000 6000 b sody mass g 2000-6 5000 - 3000 3000 60 Adelie Gentoo Chinstrap 40 50 species bill\_length\_mm 190-60 50 bill\_length\_mm

#### cowplot



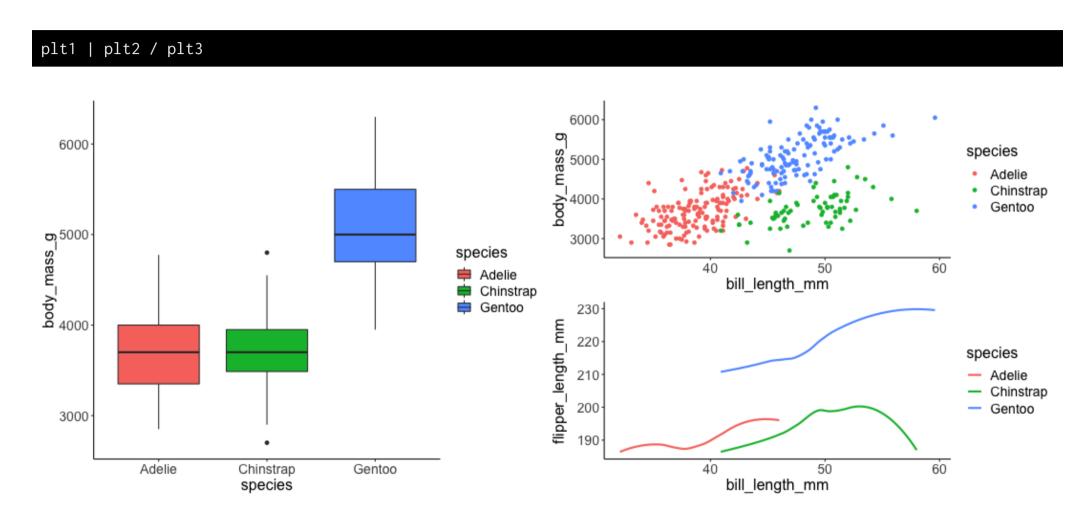
## cowplot



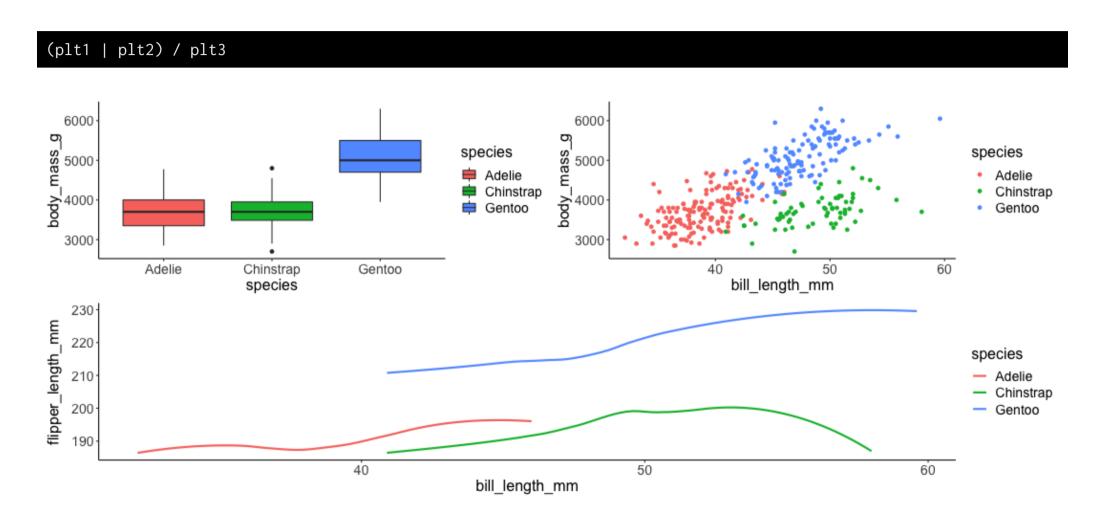
#### cowplot

```
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Α
 6000
                                   6000
body_mass_g
                                  D)
                                 5000 5000 Appendix 5000
                                                                                                     species
                       species
                         Adelie
                                                                                                       Adelie
                         Chinstrap
                                                                                                       Chinstrap
                         Gentoo
                                                                                                       Gentoo
  3000
                                   3000
      AdelieChinstrapGentoo
                                                                            50
                                                                                                60
                                                         40
                                                               bill_length_mm
          species
C 230-
1900-
                                                                                                     species
                                                                                                     Adelie
                                                                                                     Chinstrap
                                                                                                     Gentoo
                                 40
                                                                50
                                                                                               60
                                              bill_length_mm
```

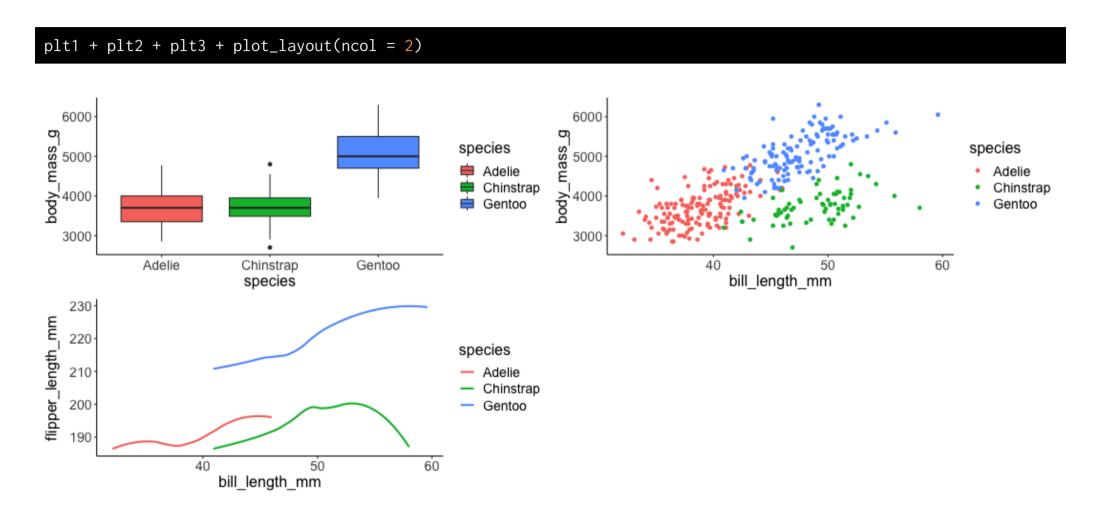
#### patchwork



### patchwork



### patchwork



#### **Further references**

ggpubr: https://rpkgs.datanovia.com/ggpubr/

cowplot: https://wilkelab.org/cowplot/index.html and Fundamentals of Data Visualization

patchwork: https://patchwork.data-imaginist.com/index.html