# COMM101: Data Visualization with ggplot

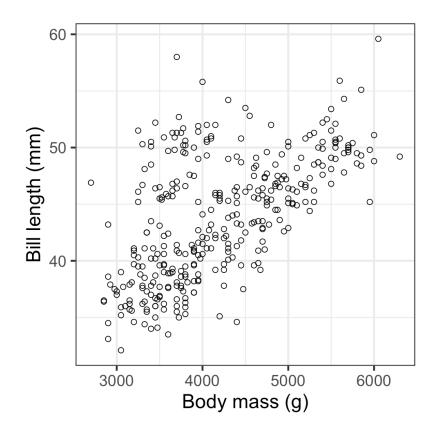
Welcome to the grammar of graphics

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### **Key concepts**

### Data, mapping, and geometries

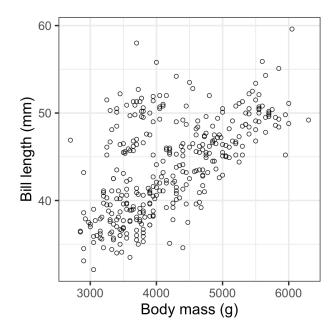
species	body_mass_g	bill_length_mm
Adelie	3750	39.1
Gentoo	5400	49.9
Chinstrap	3500	46.5

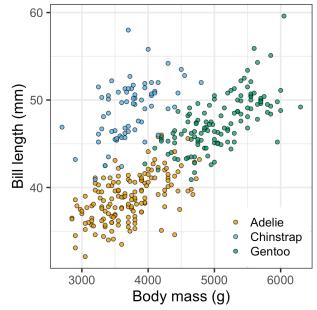


Data, mapping, and geometries

#### **Scales and themes**

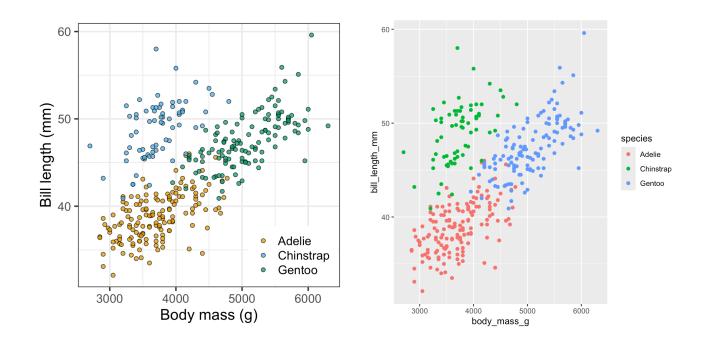
species	body_mass_g	bill_length_mm
Adelie	3750	39.1
Gentoo	5400	49.9
Chinstrap	3500	46.5





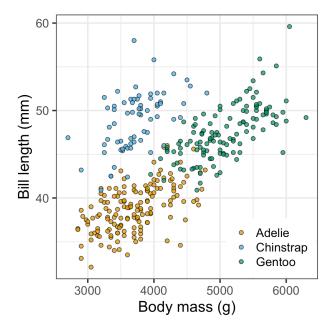
#### **Scales and themes**

## **Visualization best practices**



## Recap

species	body_mass_g	bill_length_mm
Adelie	3750	39.1
Gentoo	5400	49.9
Chinstrap	3500	46.5

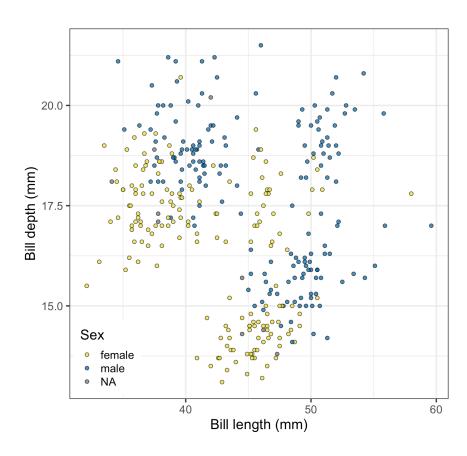


## New vocabulary and lingering questions

New vocabulary	[	Lingering questions

#### **Exercises**

Describe the grammar of graphics components (data, geometries, mapping, scales, theme) in the figure below.



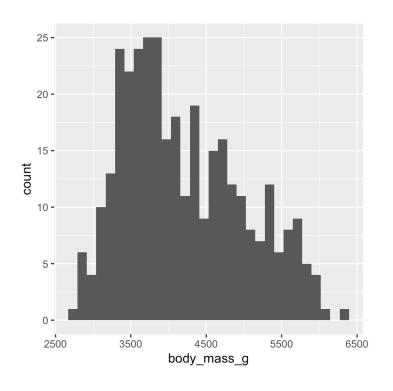
# COMM101: Data Visualization with ggplot

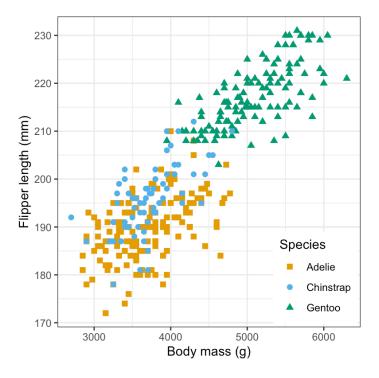
**Introducing ggplot** 

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### **Key concepts**

## Demo in R





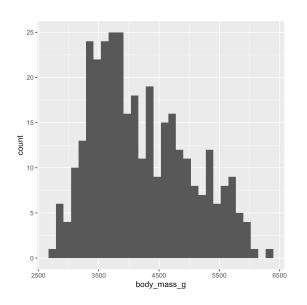
## Recap

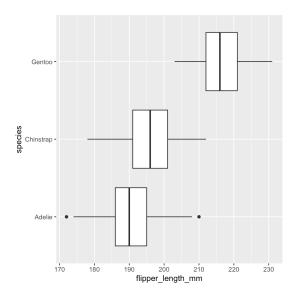
## New vocabulary and lingering questions

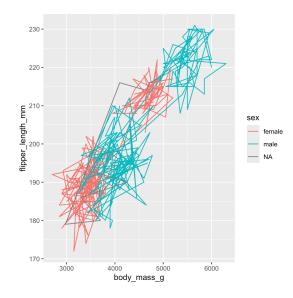
New vocabulary	[	Lingering questions

#### **Exercises**

Here are three figures. Edit the code in comm101b.R so the outputs match the figures below.





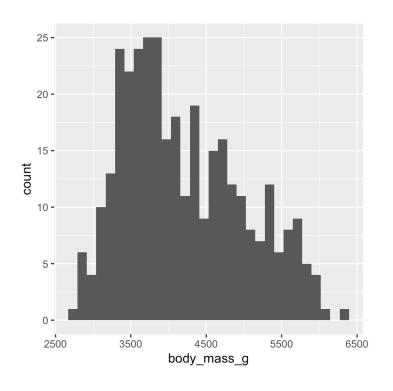


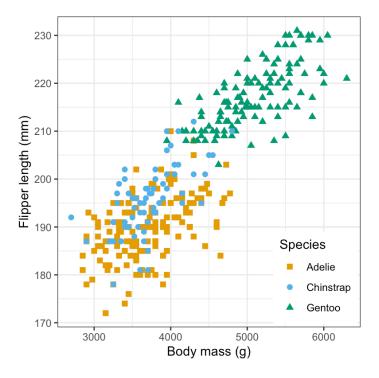
# COMM101: Data Visualization with ggplot

**Customization with scales and themes** 

### **Key concepts**

## Demo in R





## Recap

## New vocabulary and lingering questions

New vocabulary	[	Lingering questions

#### **Exercises**

comm101c.R contains the code to make the figure below. Edit the code to use scales and themes to improve the visual presentation.

