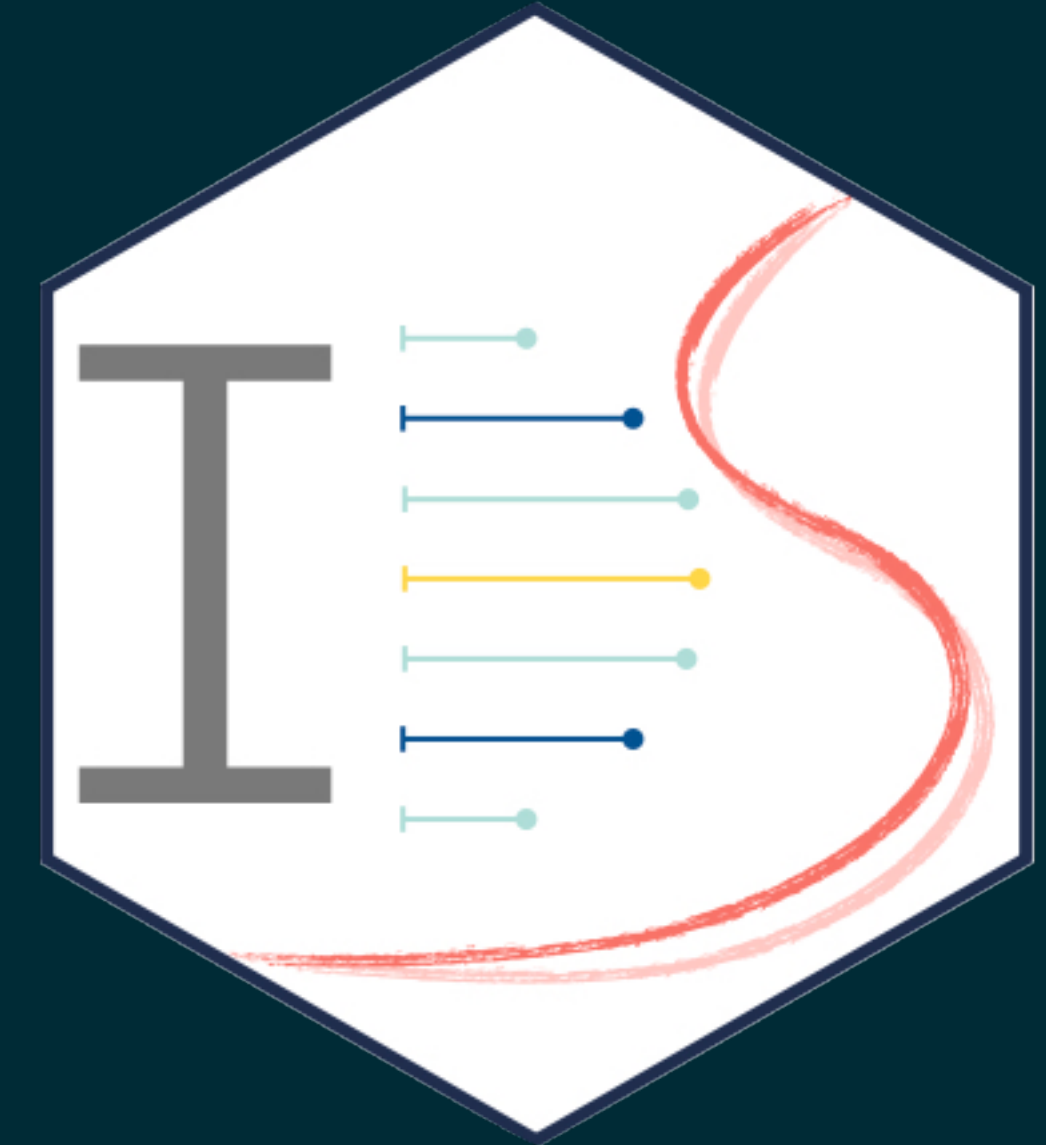




















keeping up with



week 11

# Week 10 - Model validation & uncertainty quantification

No.	Title	YouTube	MediaHopper	Slides	Length
1	Keeping up with IDS: Week 10				6:54
2	Cross validation				44:20
3	AE - The Office, Part 1				30:45
4	AE - The Office, Part 2				19:53
5	Quantifying uncertainty				28:50
6	Bootstrapping				15:06

# Quiz recap - RMSE

Which of the following is false about RMSE?

- RMSE is short for root mean squared error. ✗
- RMSE has the same units as the outcome variable. ✗
- RMSE ranges between 0 to 1. ✓
- Between two models with the same outcome variable, we prefer the one with lower RMSE. ✗

Correct!

# Quiz recap - regression

The model below predicts the heart weight (in g) of cats from their body weight (in kg). The coefficients are estimated using a dataset of 144 domestic cats.

term <chr>	estimate <dbl>	std.error <dbl>	statistic <dbl>	p.value <dbl>
(Intercept)	-0.3566624	0.6922770	-0.5152019	6.072131e-01
Bwt	4.0340627	0.2502615	16.1193908	6.969045e-34

2 rows

Which of the following is false?

- The correlation coefficient would not change if body weights were measured in pounds. ✗
- The slope estimate would not change if body weights were measured in pounds. ✓
- The intercept is meaningless in context of the data and only serves to adjust the height of the regression line. ✗
- The explanatory variable is body weight, and the response variable is heart weight. ✗

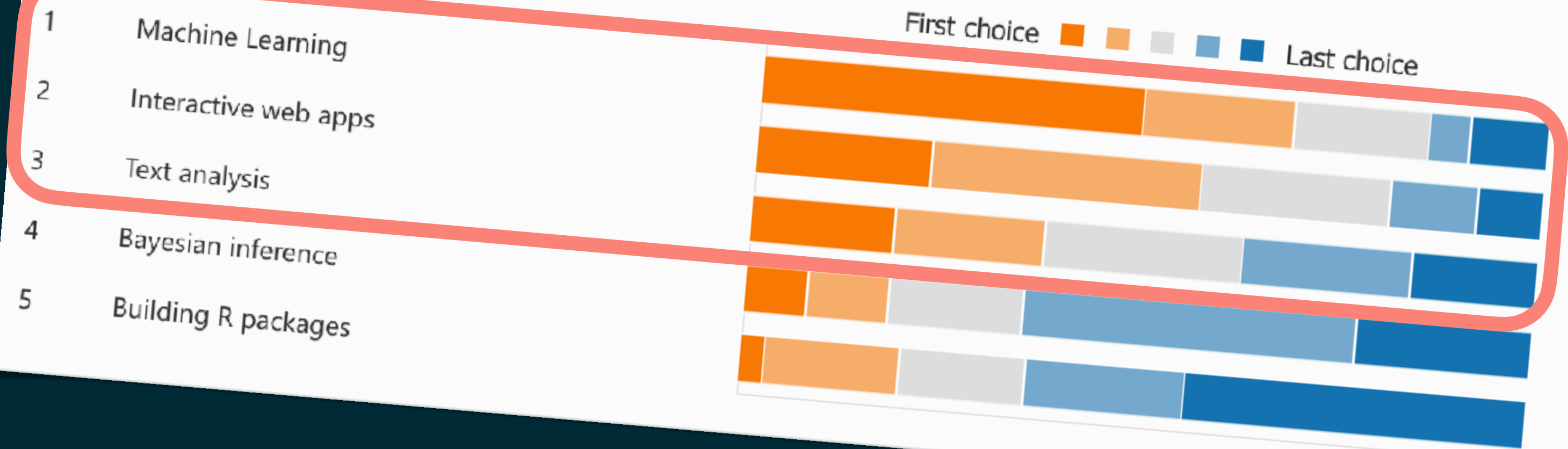
Correct!

# Week 11 - Looking ahead

I'd love to cover a couple of topics of interest to you during Week 11. Rank the following in order of your interest (1 - most interested, 5 - least interested). Each of these topics could be a semester-length course, so my goal is not a thorough treatment of any of them, but to provide a brief introduction to the topic.

[More Details](#)

**Rank Options**



# Week 11 - Looking ahead

Week 11	M Nov 30	T <b>Progress</b> Dec 1	W	Th Dec 2	F <b>Project</b> Dec 3	Sa <b>Peer</b> Dec 4	Su <b>Q 10</b> Dec 5
Week 12	M Dec 7	T Dec 8	W Dec 9	Th <b>HW 5</b> Dec 10	F <b>Errata</b> Dec 11	Sa Dec 12	Su Dec 13