Spider evolution

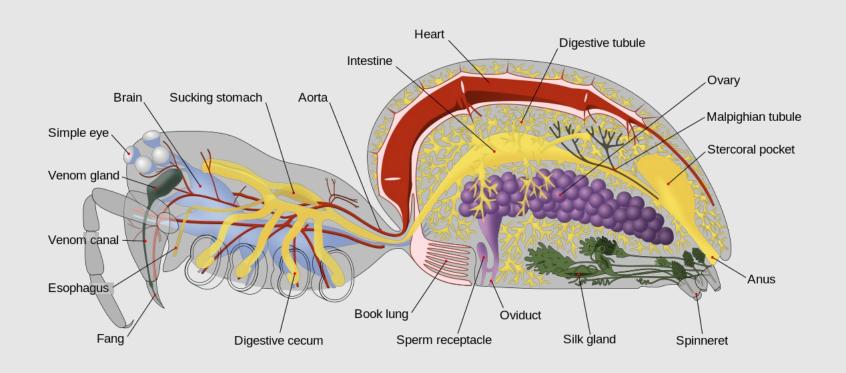
Brian O'Meara EEB464 Fall 2018

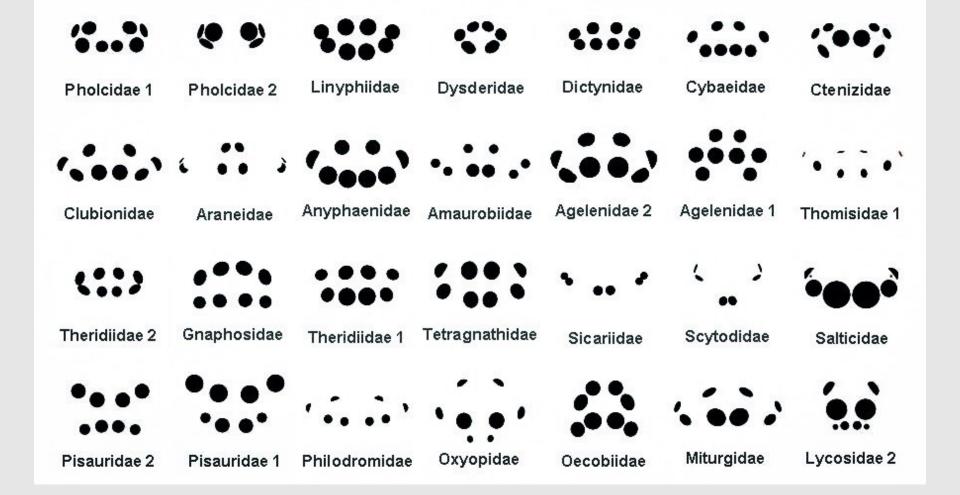
Learning objectives

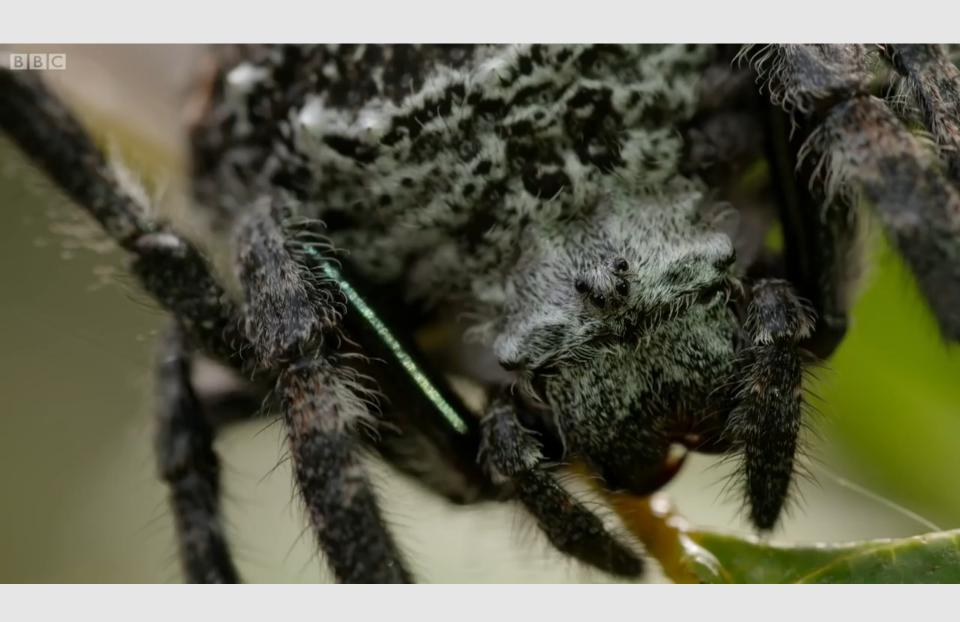
- Learn about spider diversity
- Learn how this diversity evolved, applying our knowledge of macroevolution

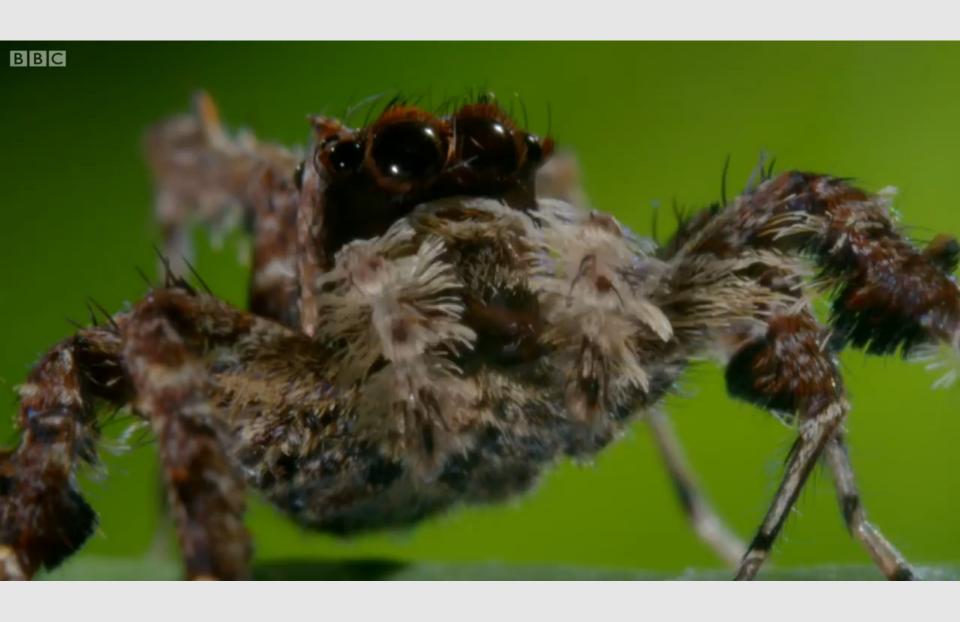


Termininja Marshal Hedin (File: Aptostichus female. jpg Dr. David Midgley (File:Supunna sp.jpg) James Gathany (File:Black widow spider 985 4 lores.jpg Thomas Shahan (File:Phidippus putnami mal e.jpg) Viridiflavus (File: Eresus Sandaliatus Hog eVeluwe.JPG) Mkullen (File:Gasteracantha cancrifo rmis 2.ipq George Chernilevsky (File:Brachypelma smithi 20 09 G09.jpg) JJ Harrison (File:Thomisidae sp.jpq) Luis Miguel Bugallo Sánche (File:Segestria florentina.jpg) Marshal Hedin (File:Female Calisoga sp. (M arshal Hedin).jpg) Fir0002 (File:Victorian funnelweb sid e.jpg) Akio Tanikawa File:Pandava.laminata.fema le.-.tanikawa.jpg) André Karwath (File:Metellina mengei (aka). ipq) Fritz Geller-Grimm (File:Linothele fq01.jpq) Marshal Hedin (File:Titiotus.sp.(Marshal.He din).jpg) OpenCage (File Atura Legraphi in al







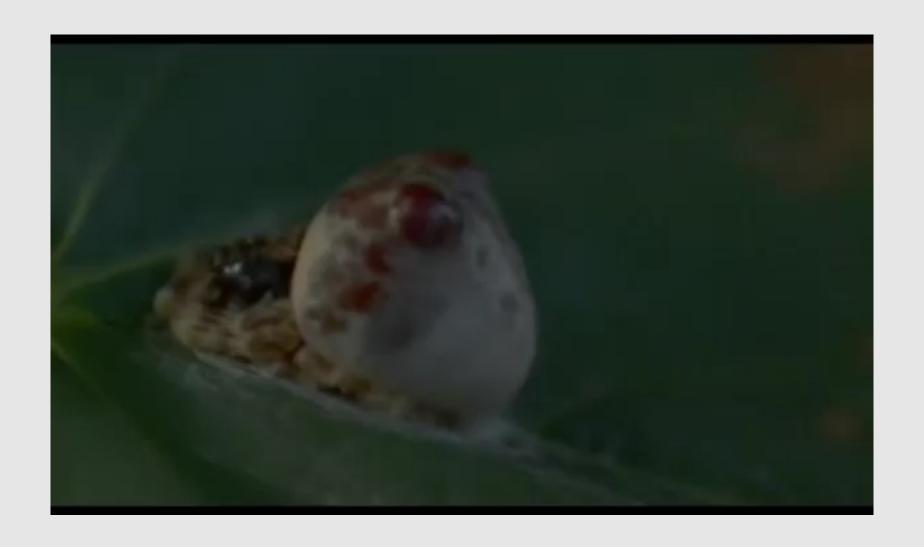


BBC Earth, The Hunt https://www.youtube.com/watch?v=UDtlvZGmHYk. Jumping spider

Do you agree with the narrator that this shows intelligence?

How could this have evolved?

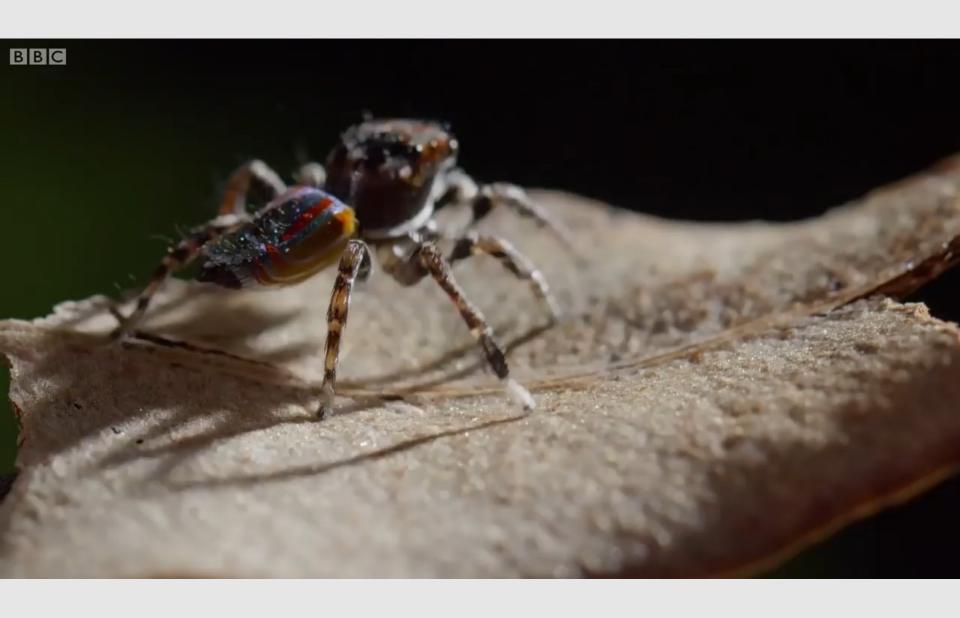
How could you test these ideas?



BBC Earth, Life in the Undergrowth https://www.youtube.com/watch?v=EWec266Lo3Q. Bolas spider

How could this foraging strategy have evolved?

How could you test these ideas?



BBC Earth, Life Story https://www.youtube.com/watch?v=PQbScg3r1oQ. Spider courtship

Why might this courtship dance have evolved?

How could you test these ideas?