

Defining Trees



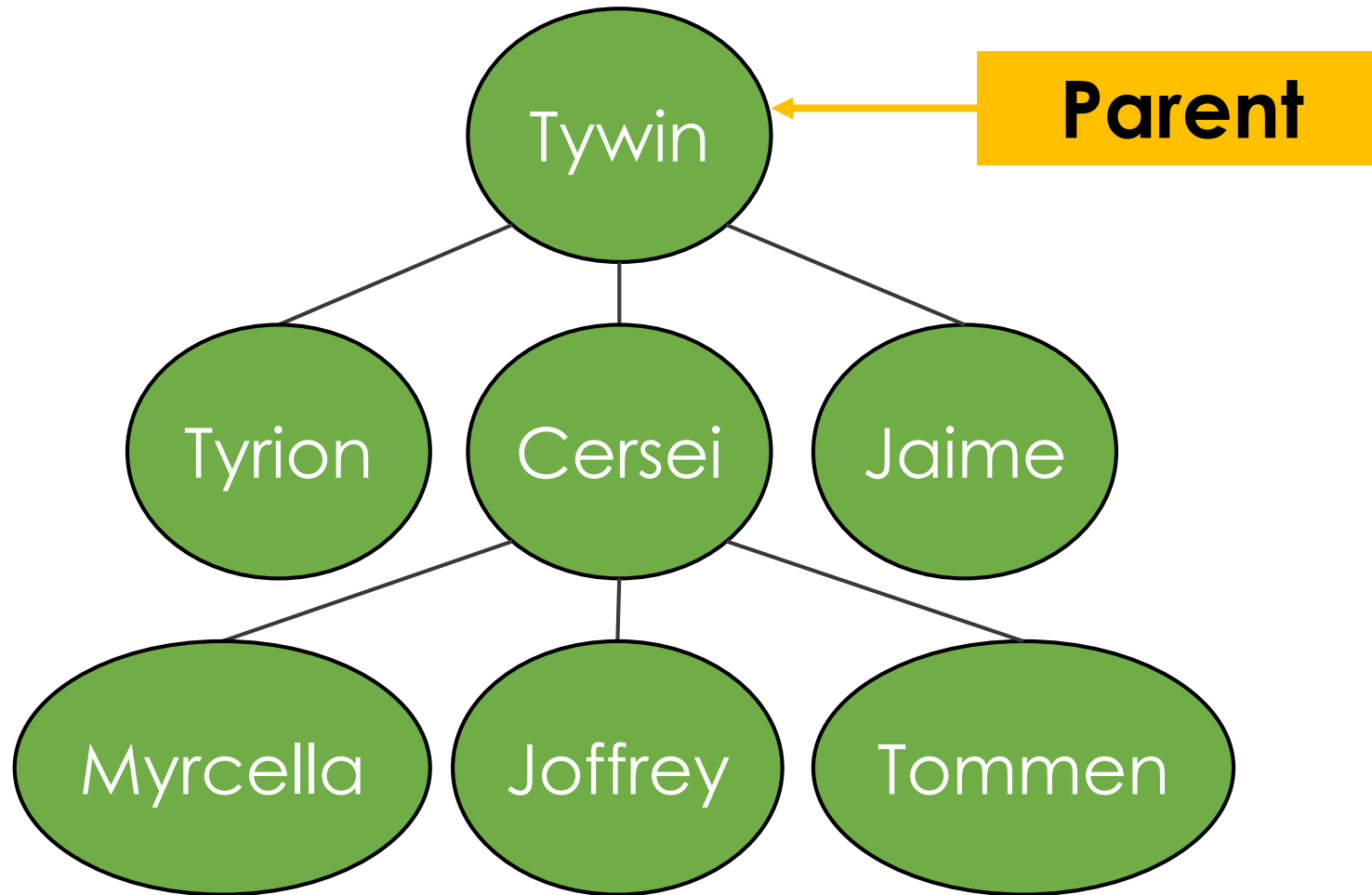
This work is licensed under a [Creative Commons Attribution-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-sa/4.0/)
by Christine Alvarado, Mia Minnes, and Leo Porter, 2015.



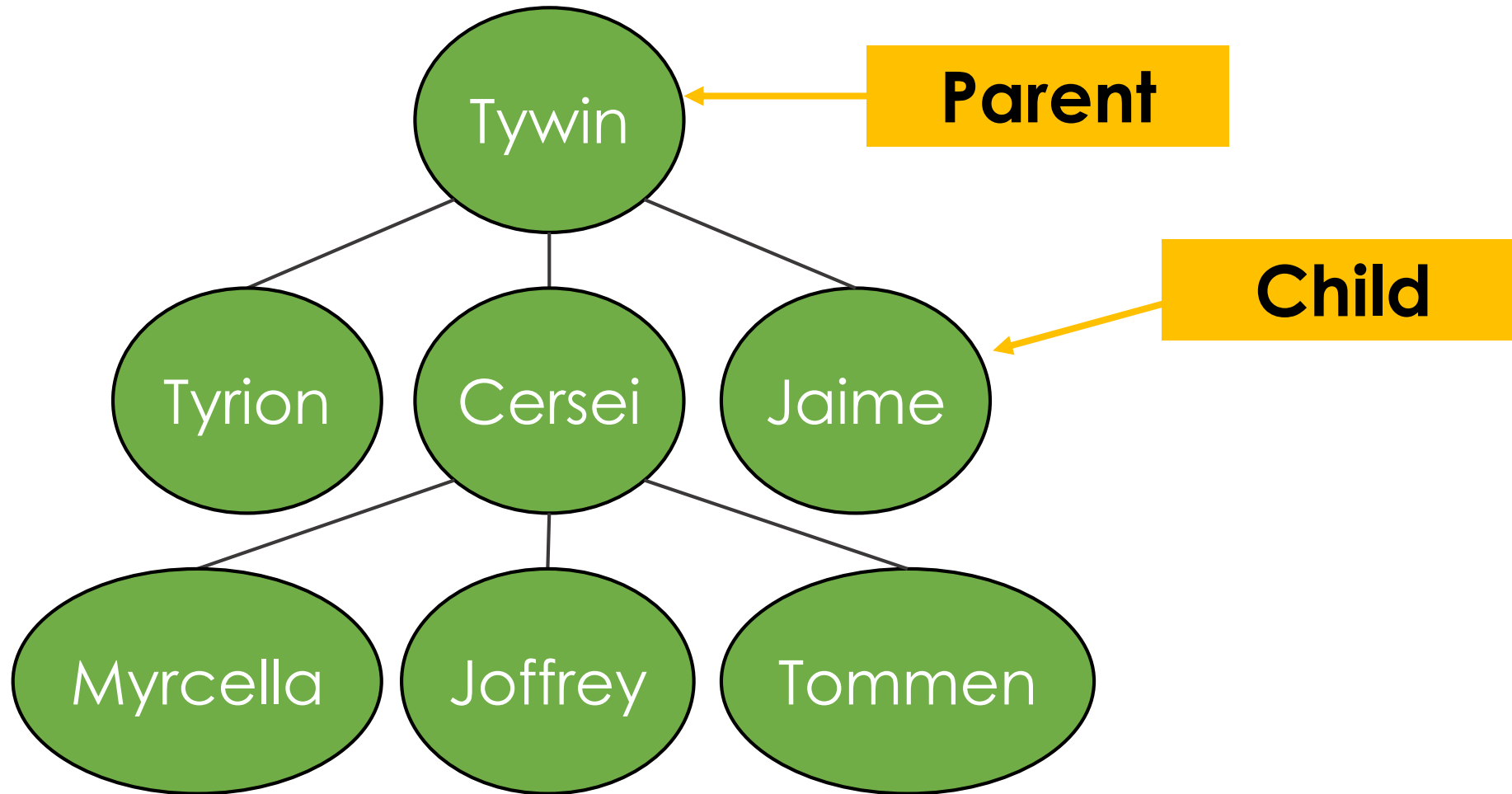
By the end of this video you will be able to...

- Describe a Tree Data Structure

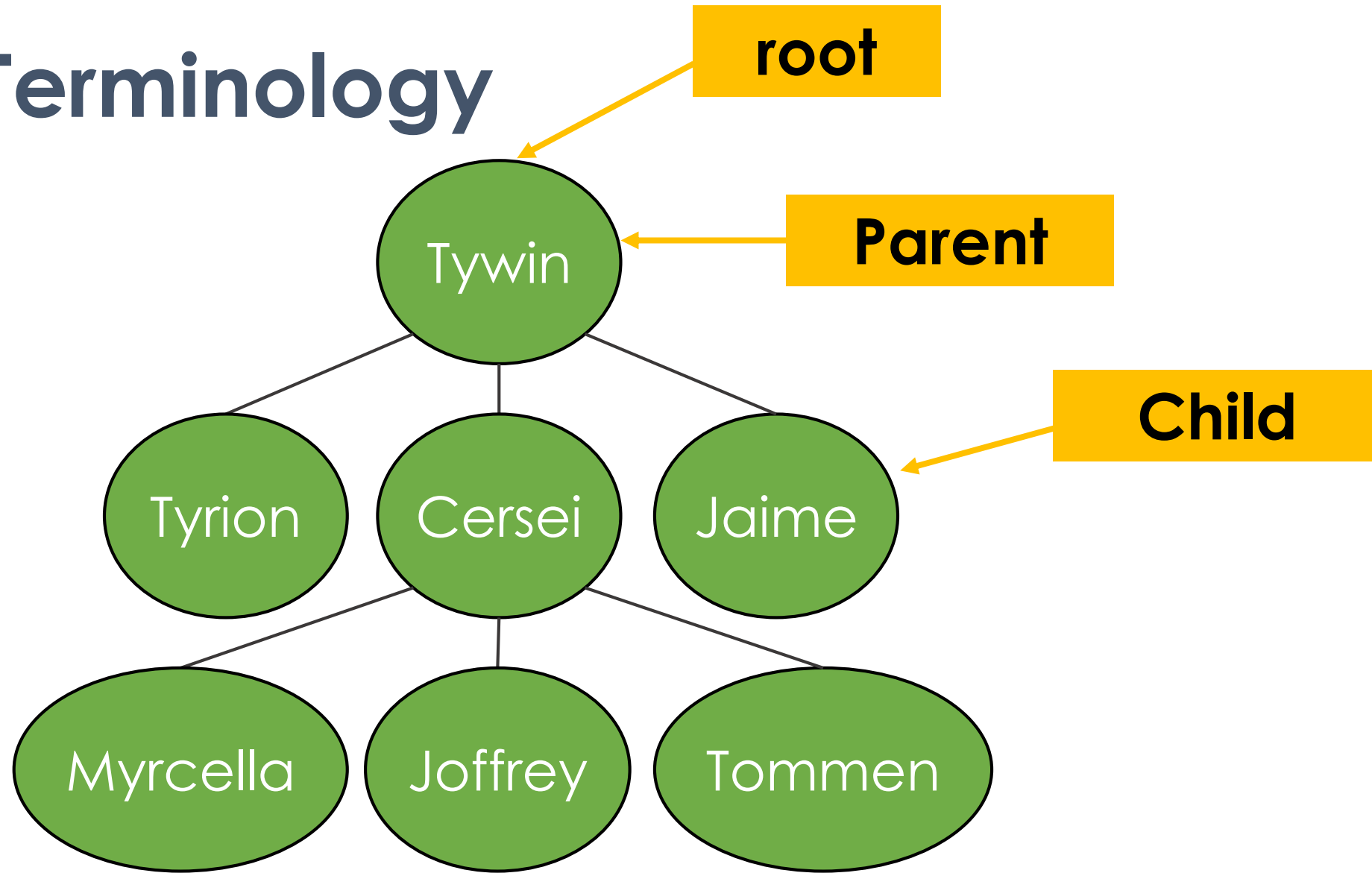
Terminology



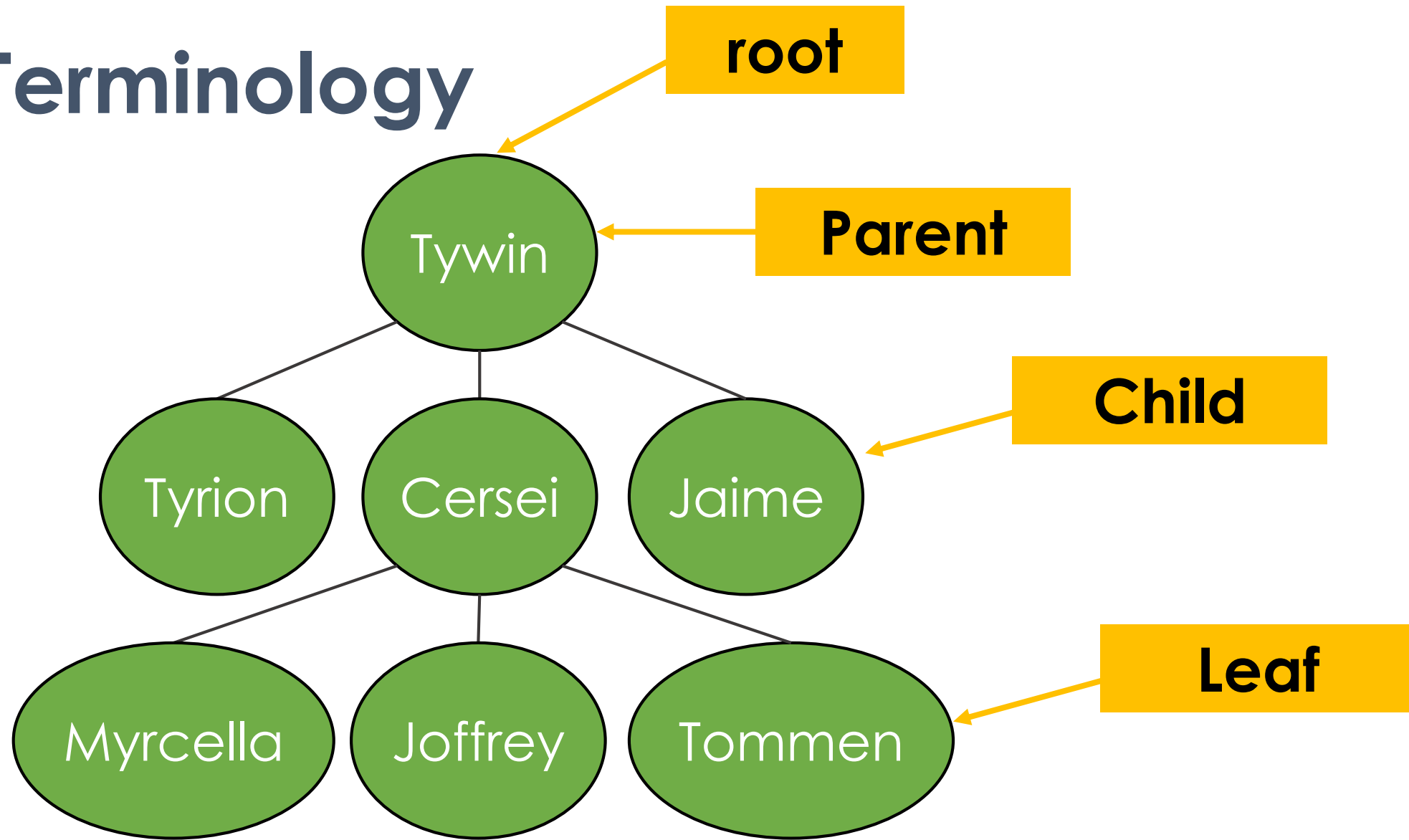
Terminology



Terminology



Terminology

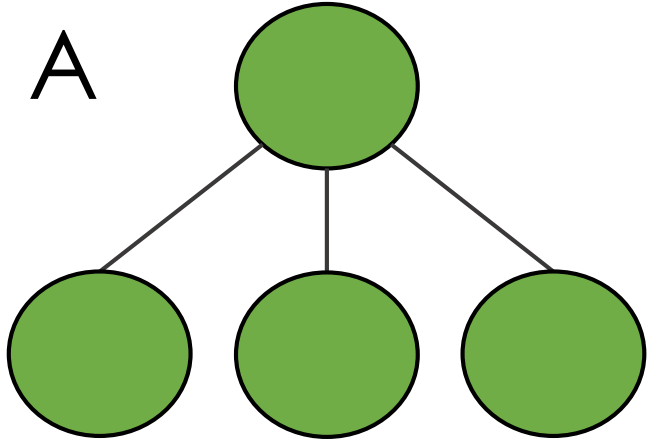


What defines a tree?

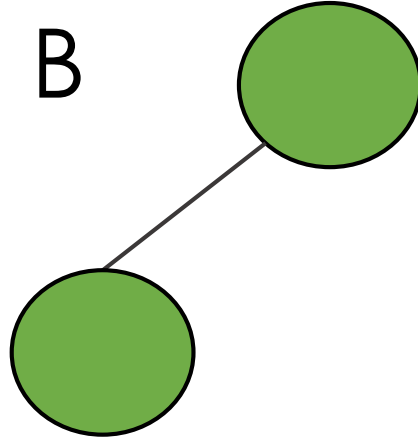
- **Single root**
- **Each node can have only one parent**
- **No cycles in a tree**

Which are trees?

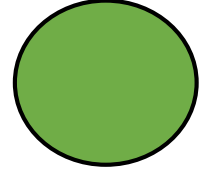
A



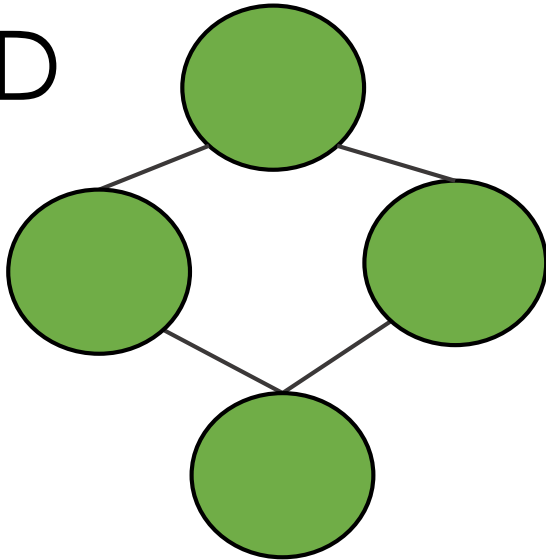
B



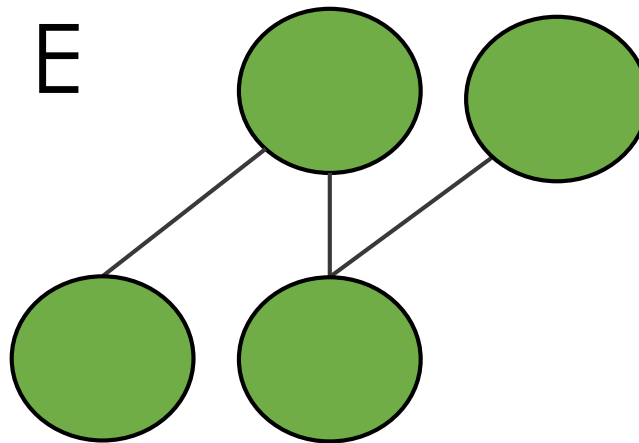
C



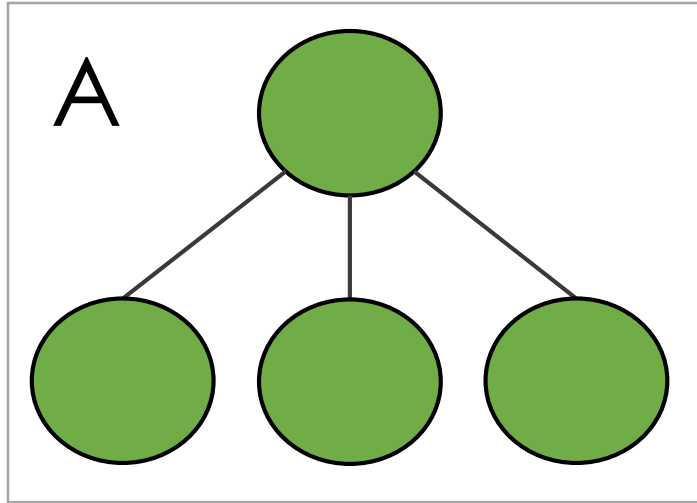
D



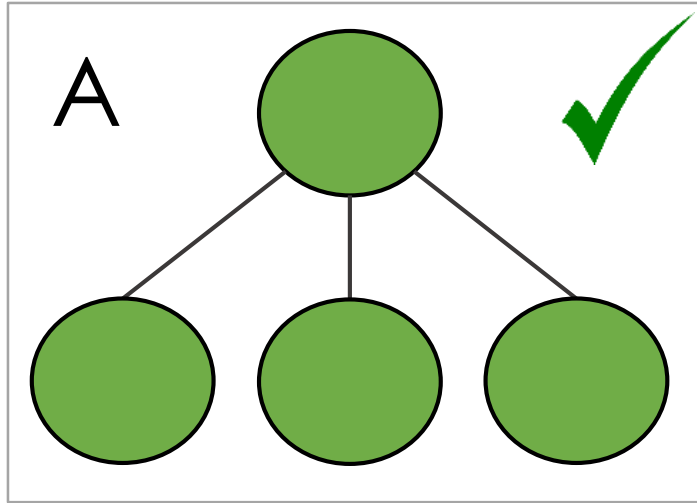
E



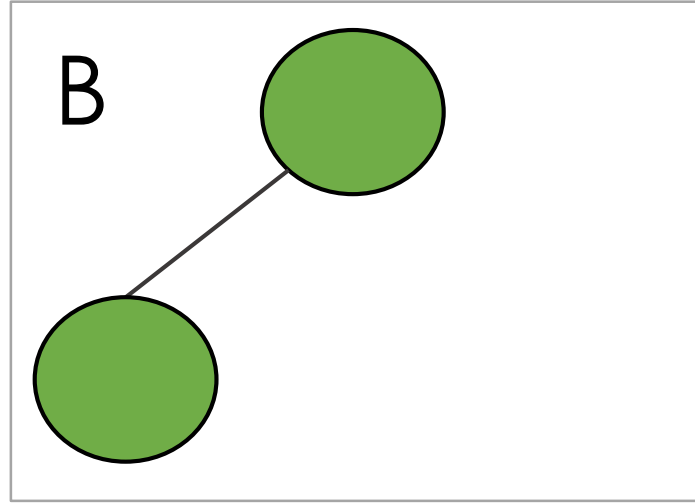
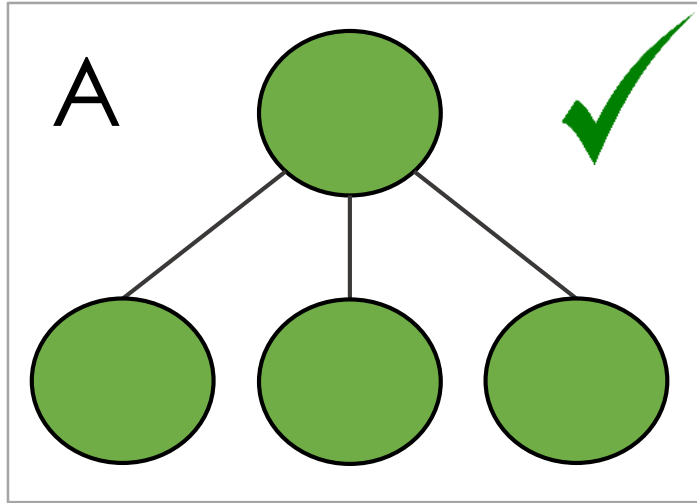
Which are trees?



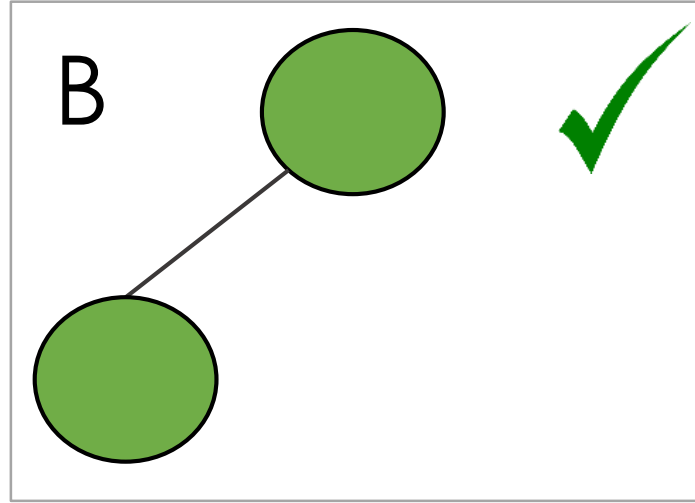
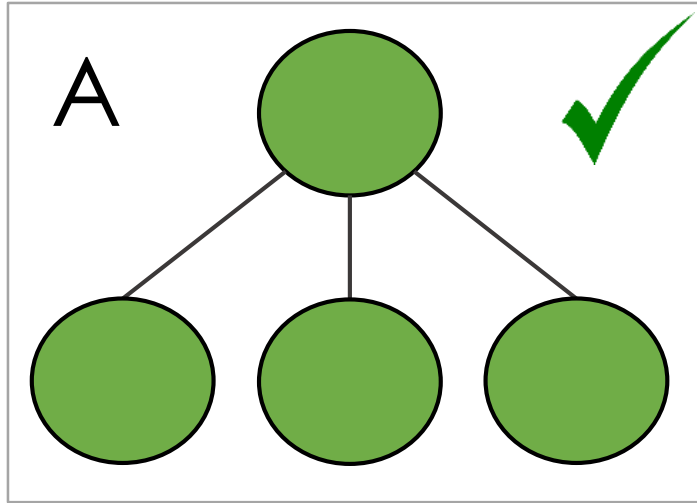
Which are trees?



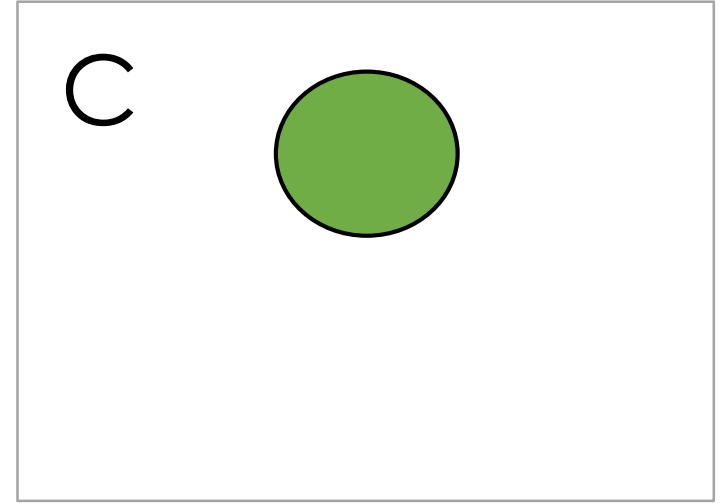
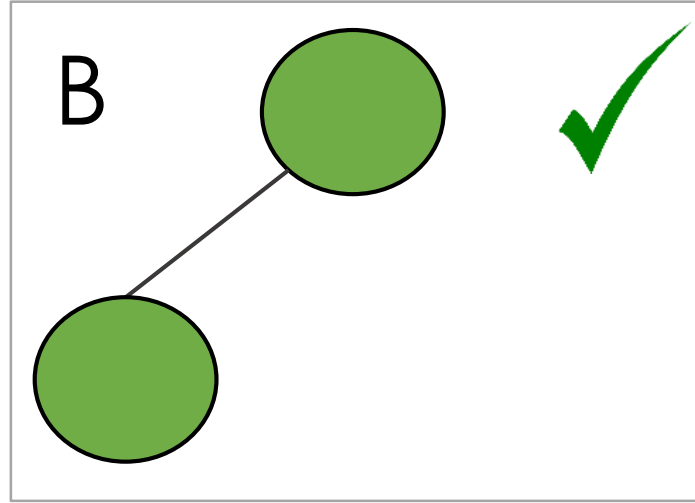
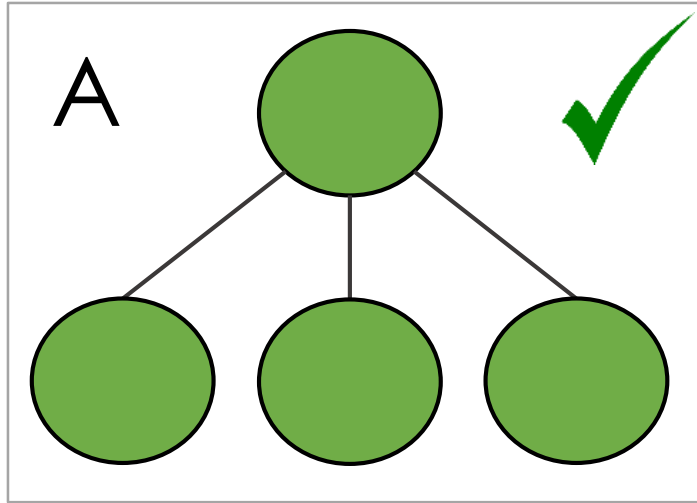
Which are trees?



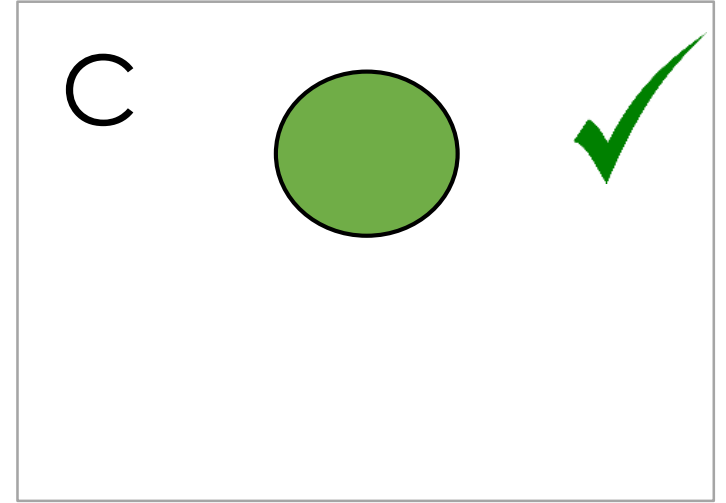
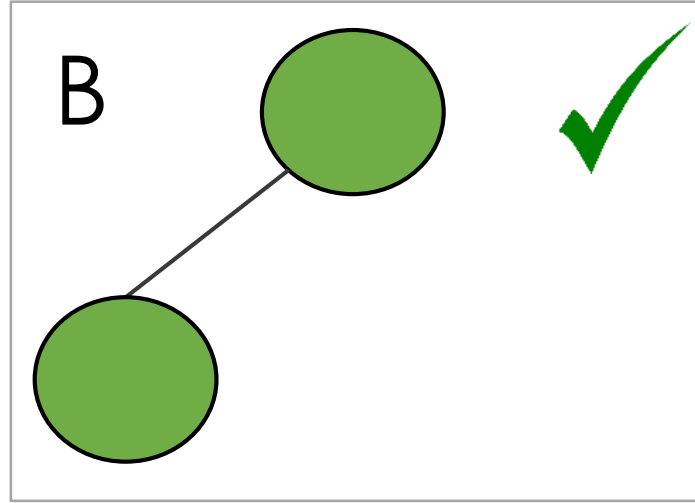
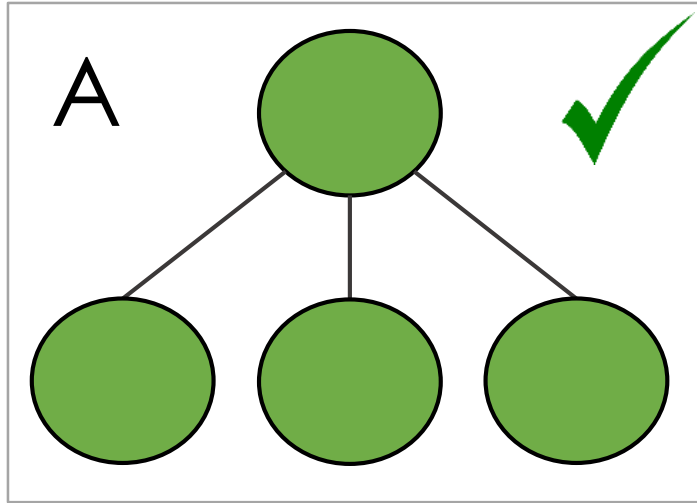
Which are trees?



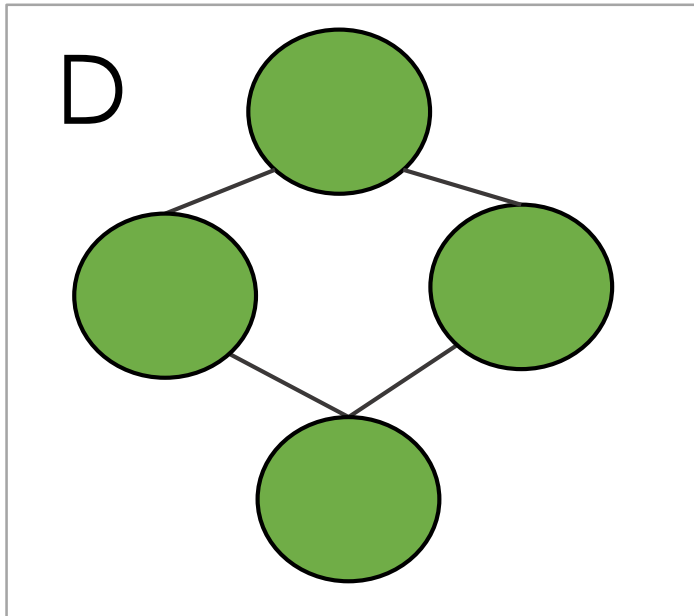
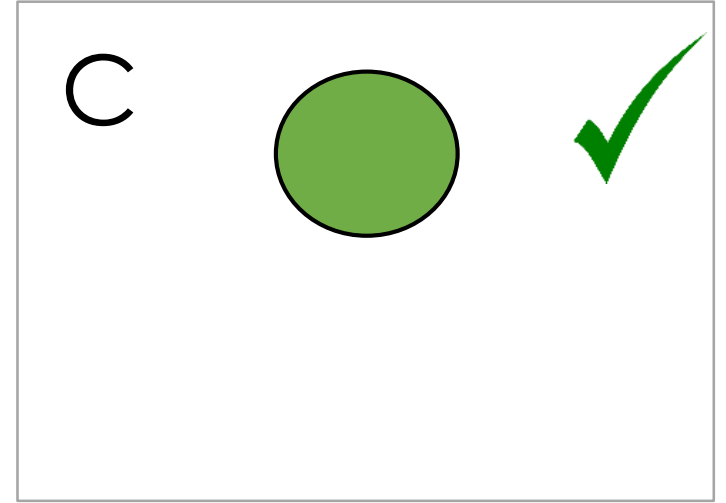
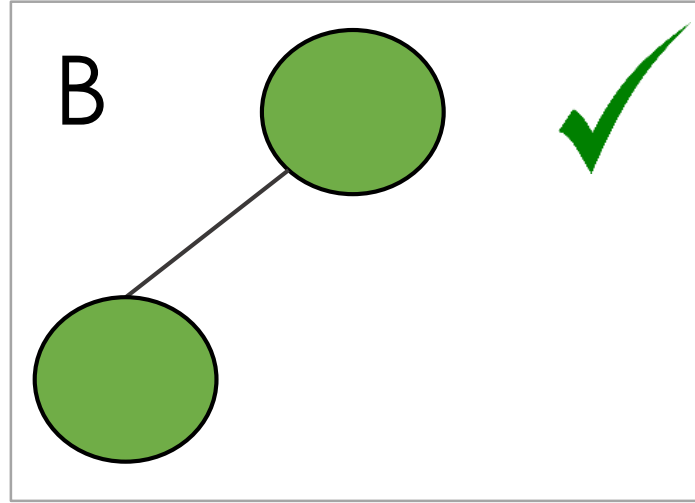
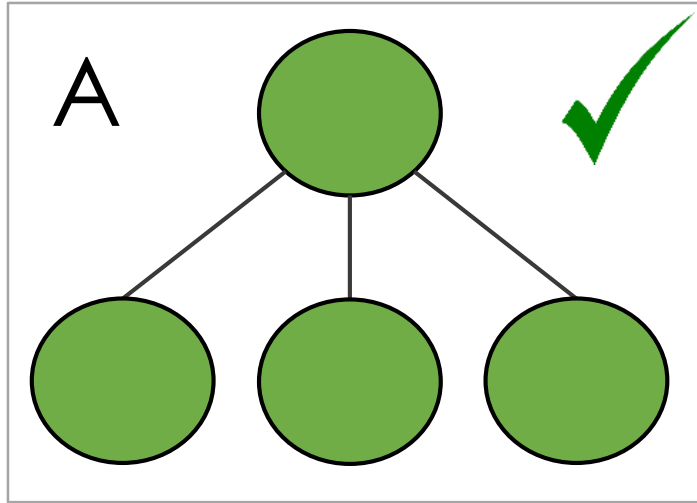
Which are trees?



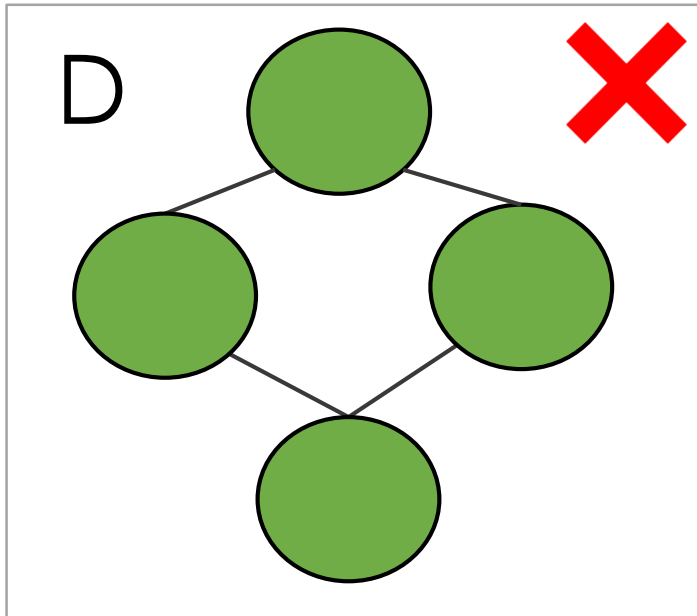
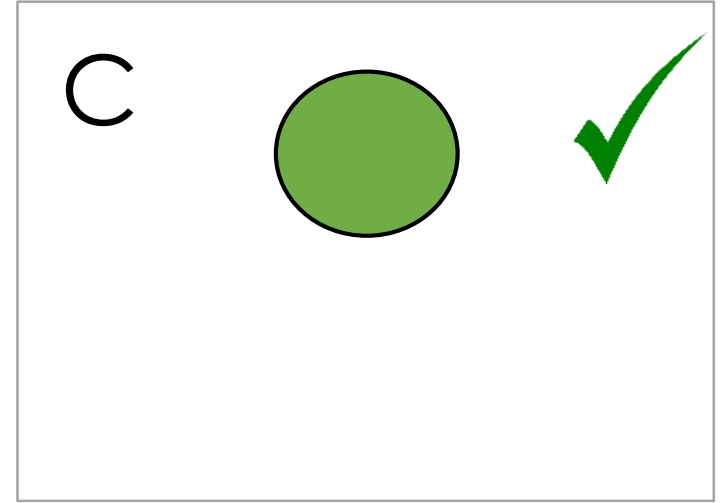
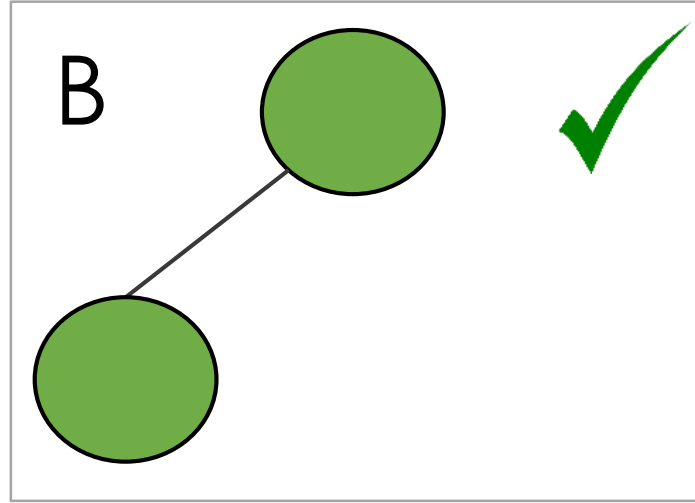
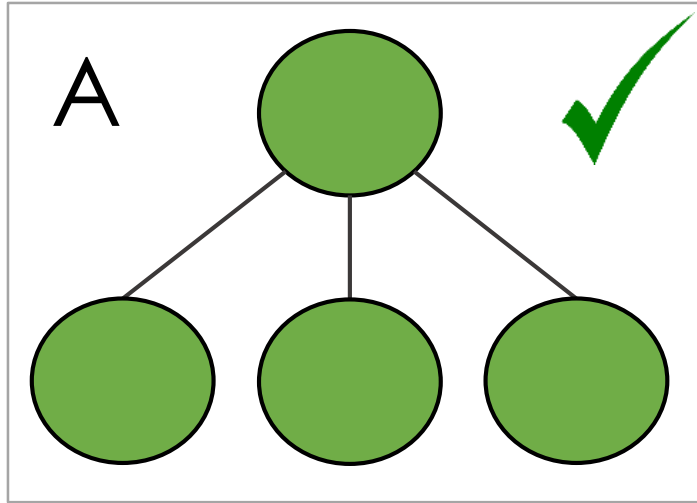
Which are trees?



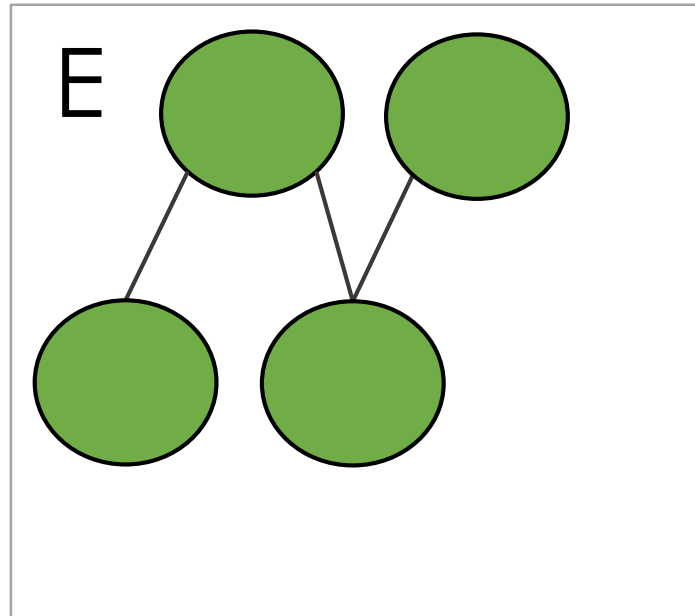
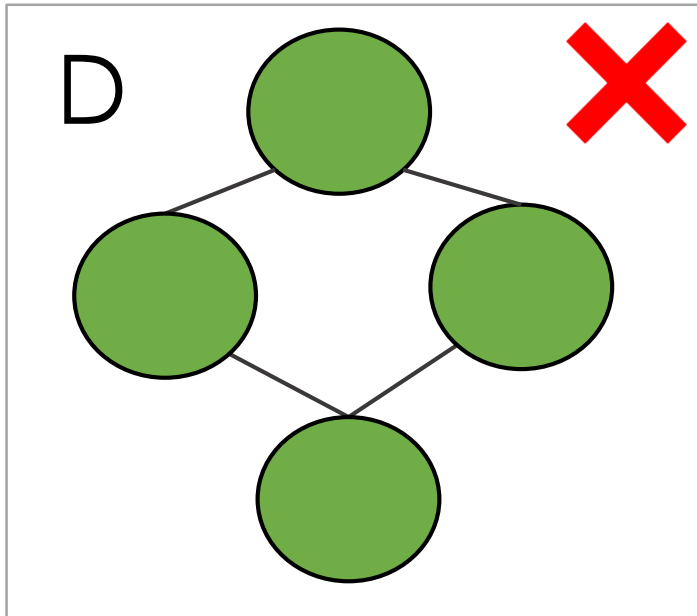
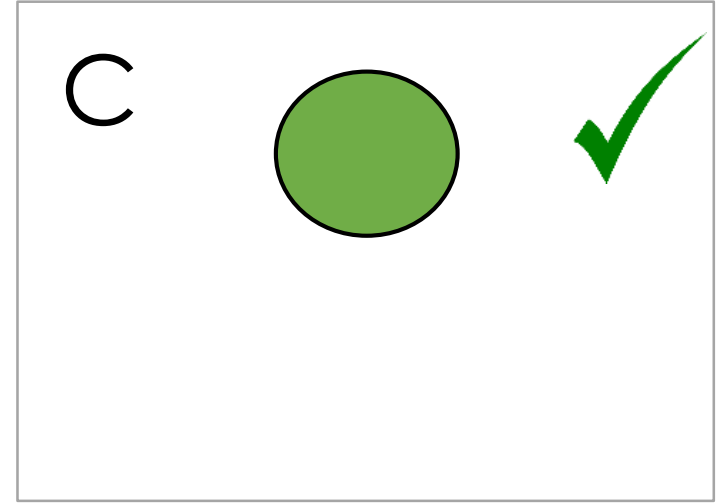
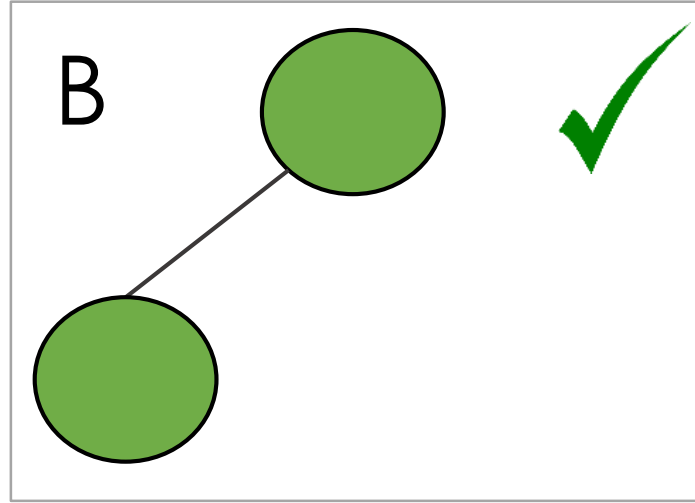
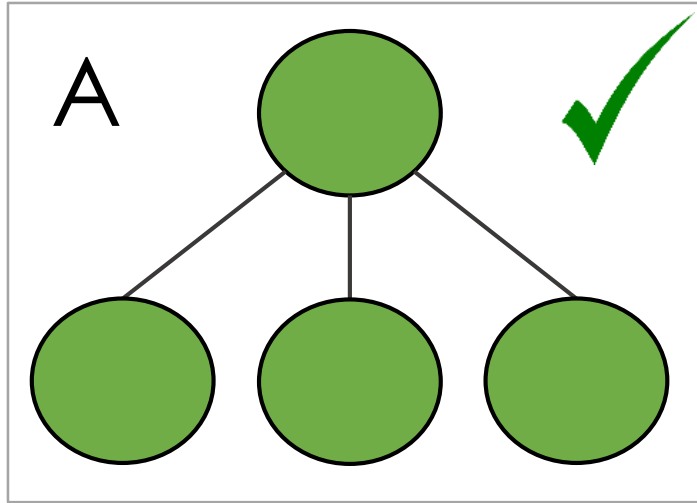
Which are trees?



Which are trees?



Which are trees?



Which are trees?

