Introduction to Trees

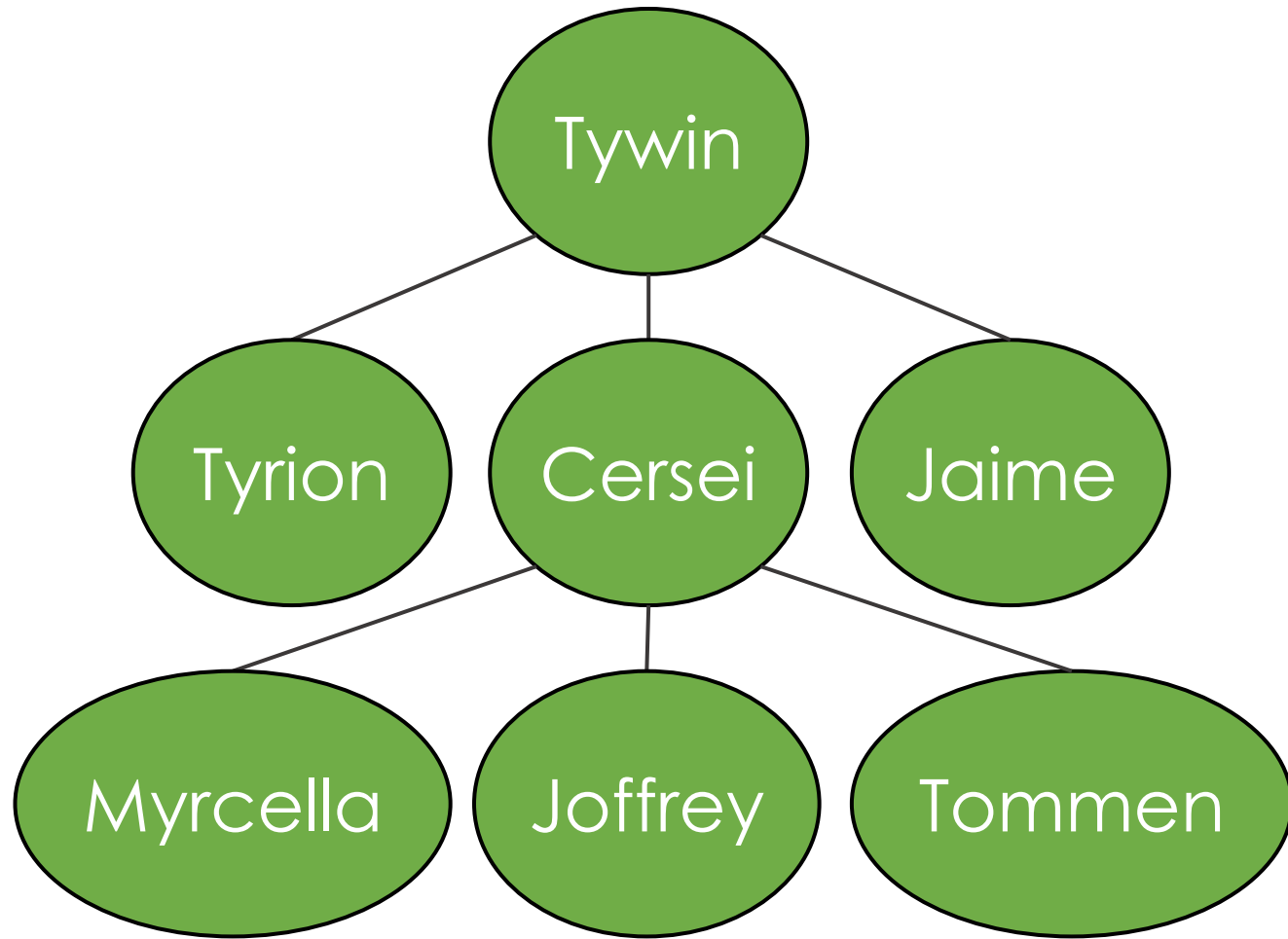# By the end of this video you will be able to...

- Describe the value of trees
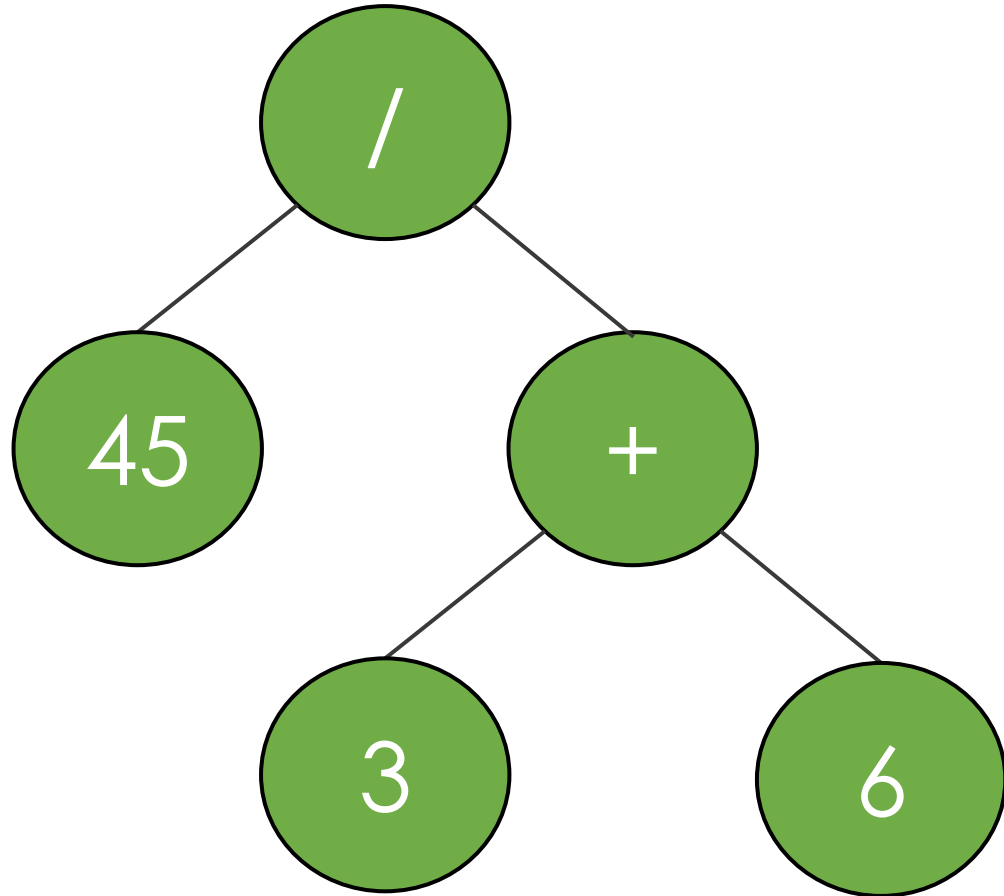
Family Trees

http://www.hbo.com/game-of-thrones
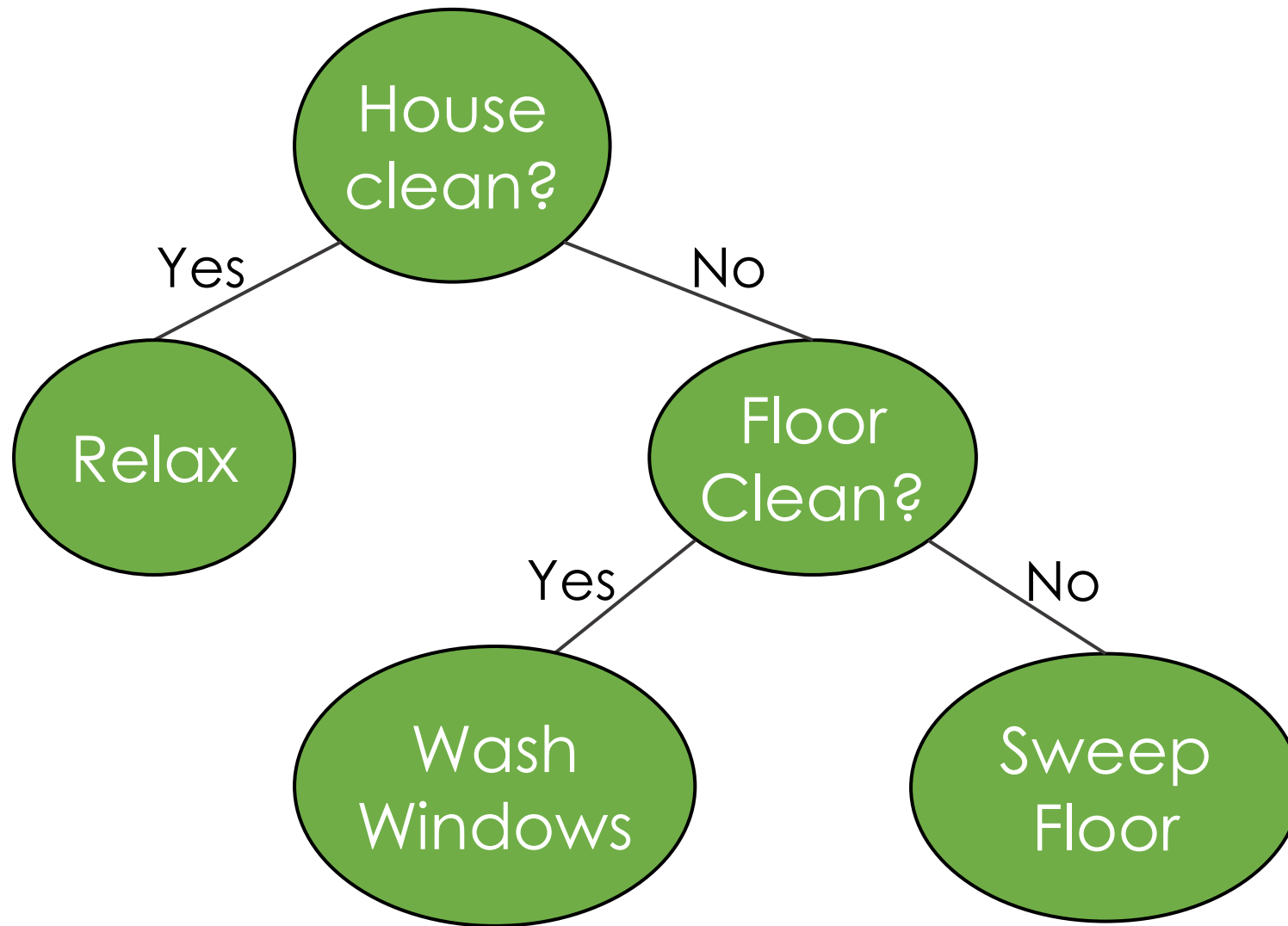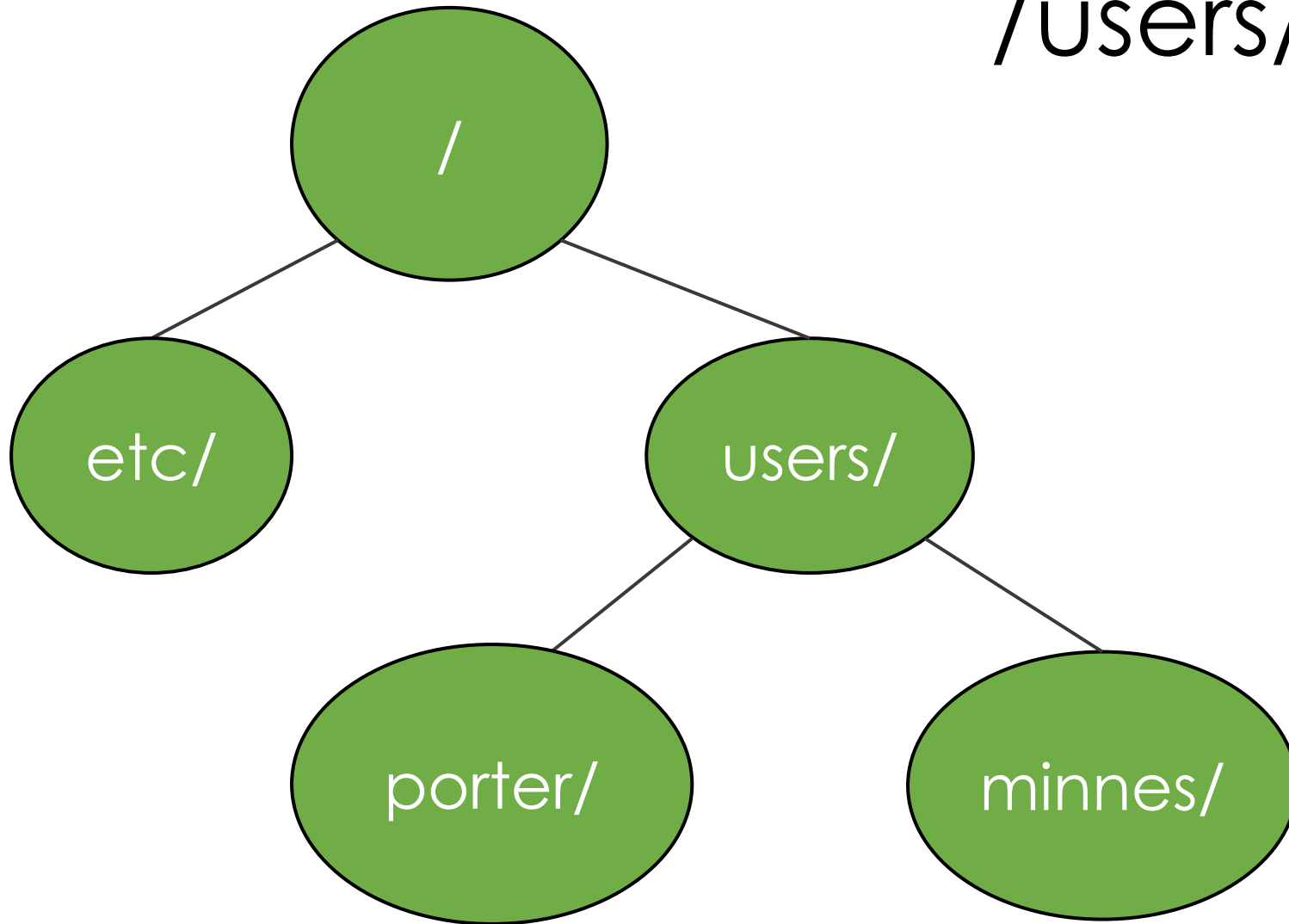
Decision Trees

Expression Trees

Evaluate:
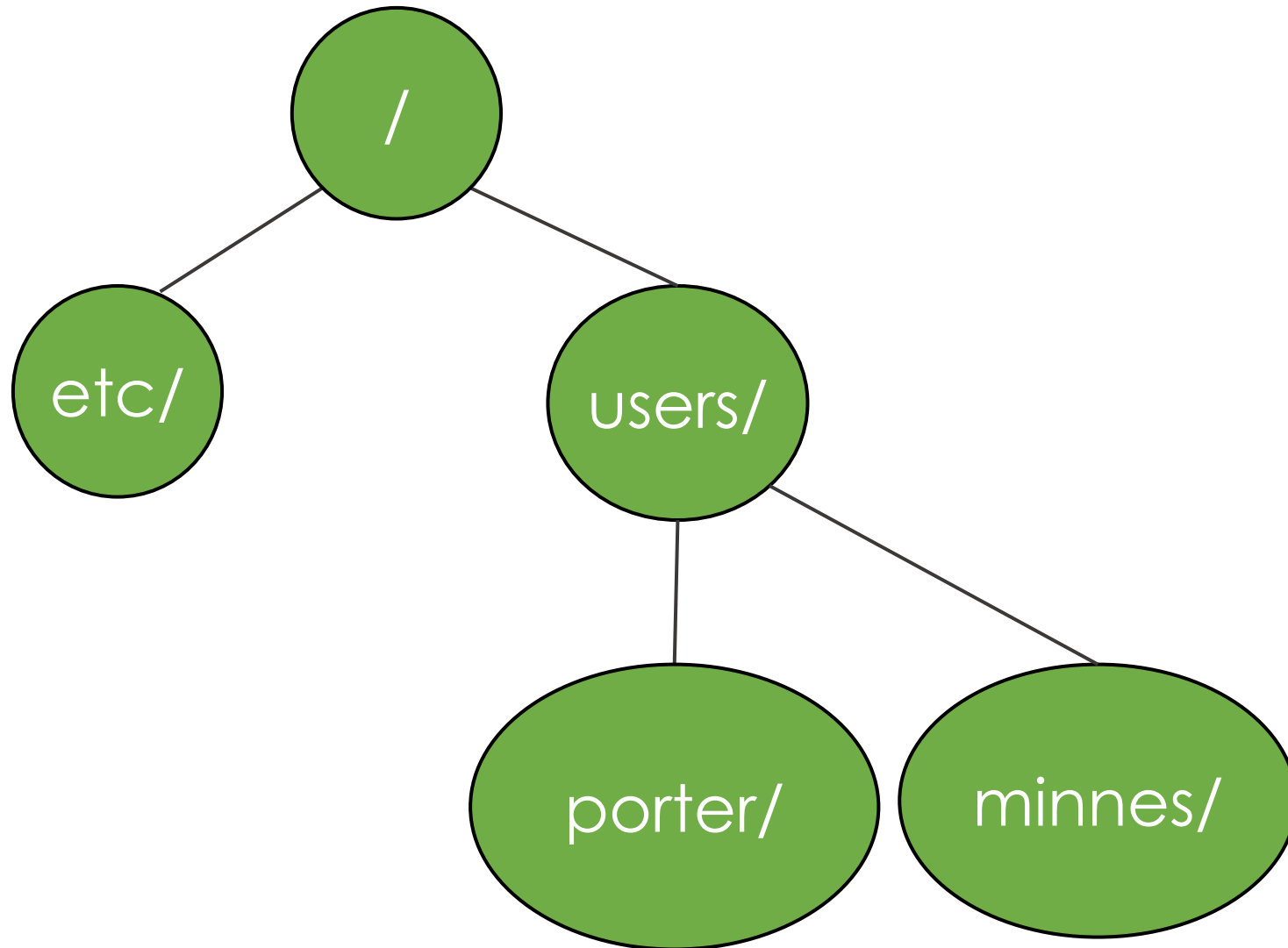45 / (3 + 6)

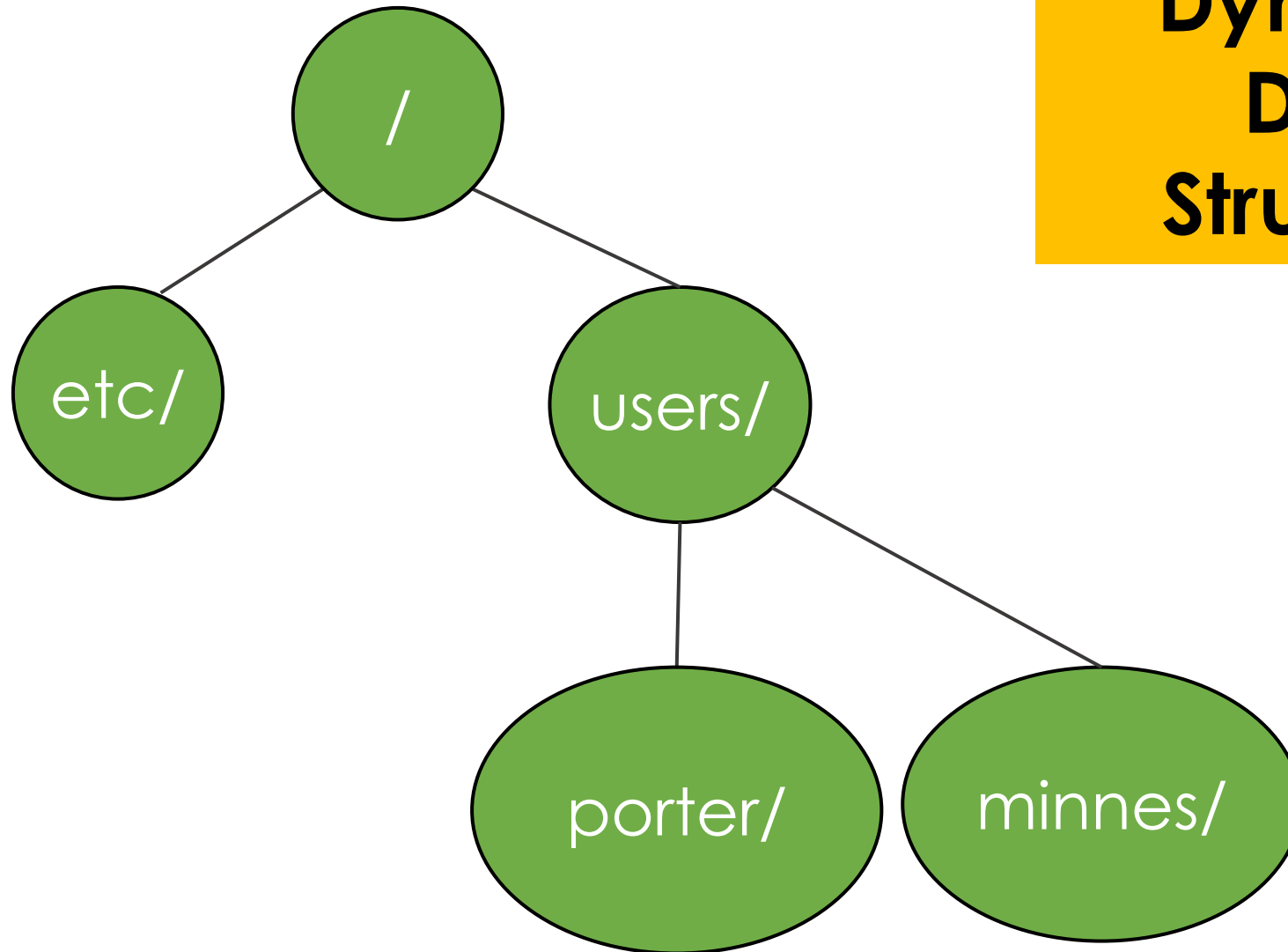# File System

/users/porter/

Trees!

There are tons of trees in computer science. Why?
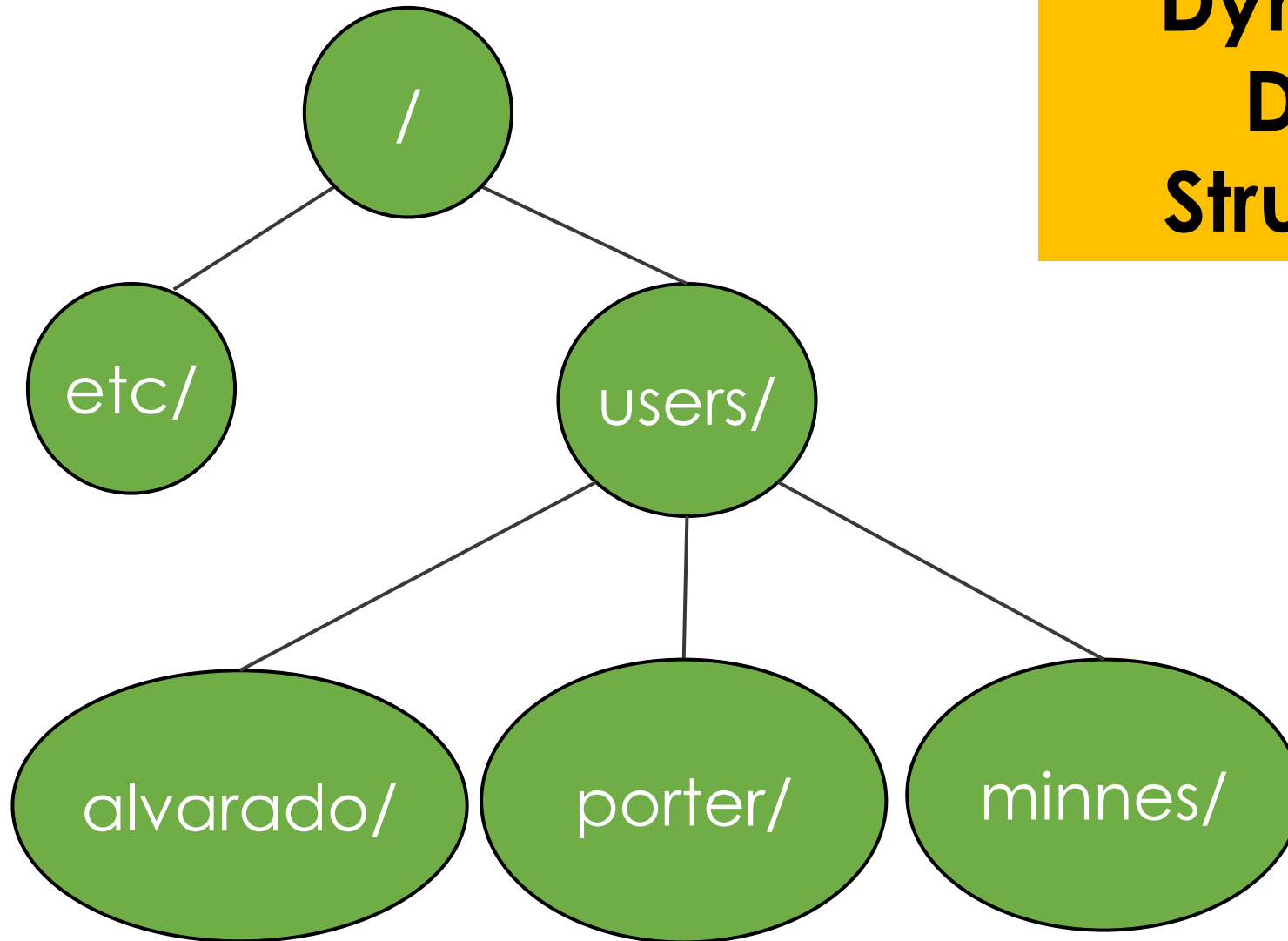
Why trees?

Why trees?

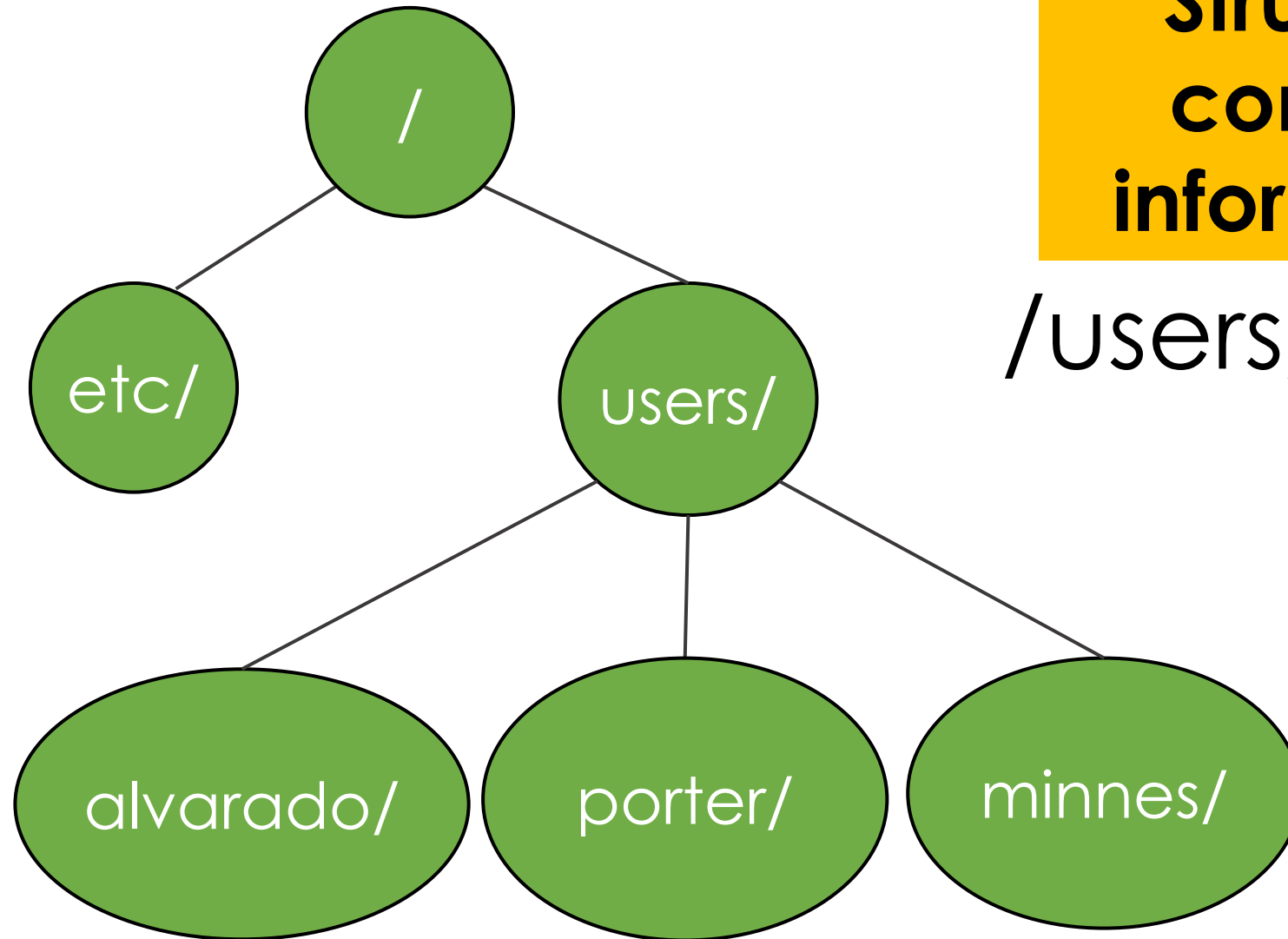**Dynamic Data Structure**

Why trees?

Dynamic Data Structure

Why trees?

Structure conveys information

/users/porter/

Different organizations → Different Trees

- Root is most important – Heap
- Organized by character frequency – Huffman Tree
- Organized by node ordering – Search Trees
- Etc…

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- Etc…

We'll look in detail at a few trees in this lesson…