

# Module 2 – Functions

Function types, scope and recursion

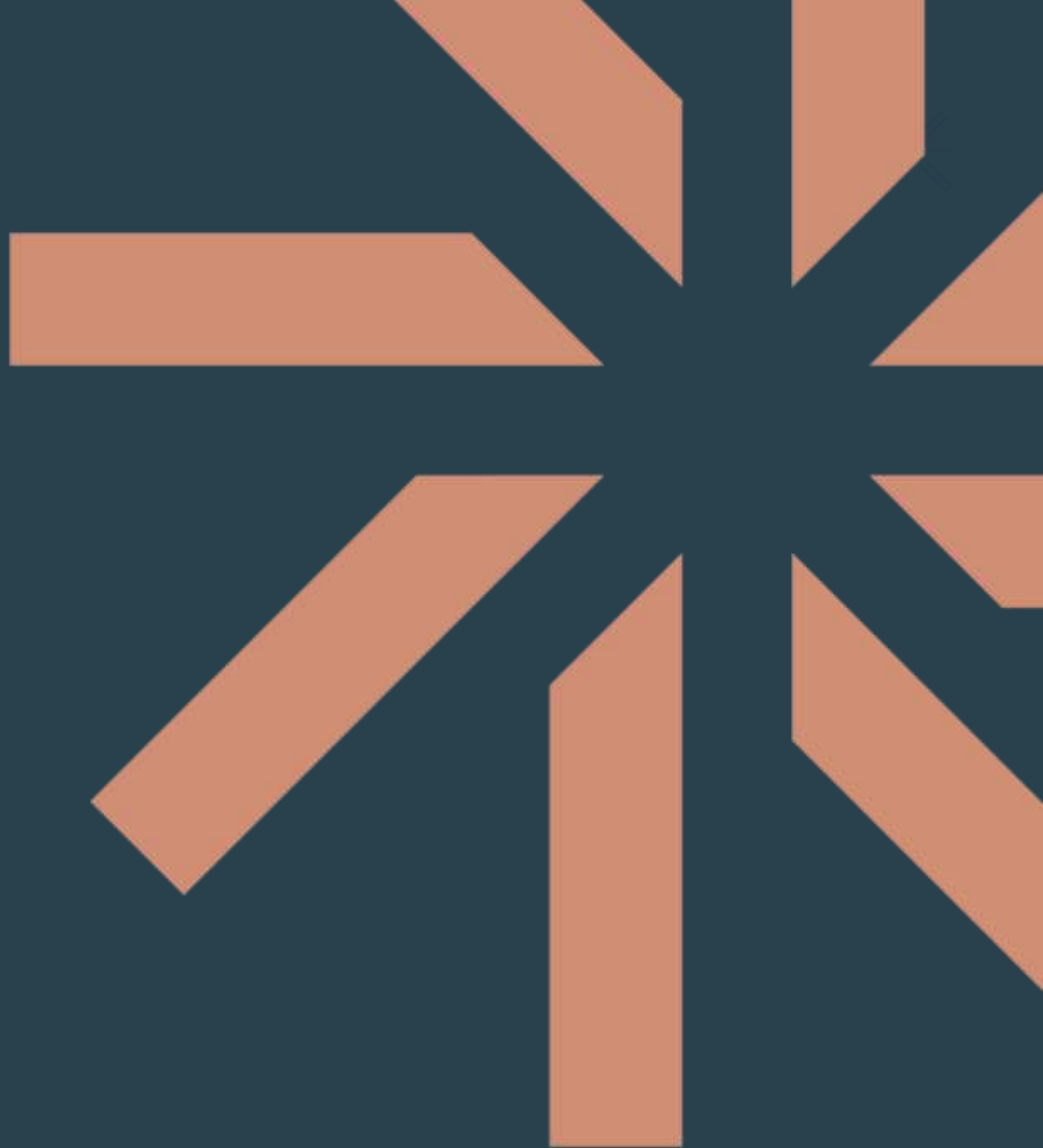
# From last class

- How do we request stuff from external sources?
- What is AJAX?
- Why is AJAX great?
- What is JSON?
- How can we transform JSON to JavaScript object?



# Class plan

- Looking back at functions
- Different function types
  - Anonymous functions
  - Arrow functions
  - Self-invoked functions
- What is recursion
- Explaining scope



# Why are functions important



- Easy representation of human concepts in code
- Organizing data easily
- Function components:
  - Parameters
  - Return
- Functions can be called multiple times, and they will always execute at the same point

# Function types



- Anonymous functions – used when we need a function at the spot without identifying it, usually when sending it as a parameter or returning it
- Arrow functions – A shorter way of writing anonymous functions (easier for callbacks, not recommended for object methods)
- Self Invoked Functions – Usually used for executing a code once in a closed scope

# Recursion



- Functions can be called in other functions
- We can also call the same function in itself
- When functions call themselves it's called recursion
- Usually there is a fail-safe mechanism in a recursive function in order to stop calling itself at some point



Questions?