

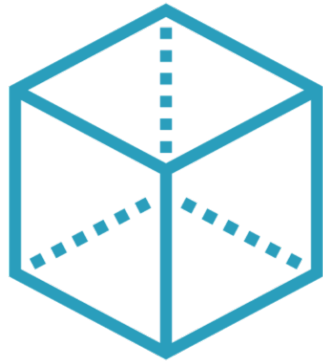
# Creating Ambient Modules

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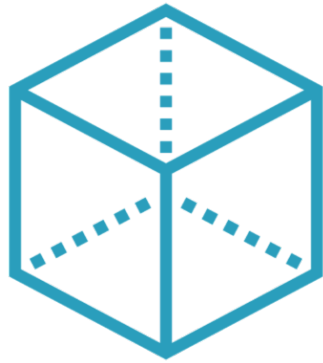
**Dan Wellman**  
LEAD UI DEVELOPER



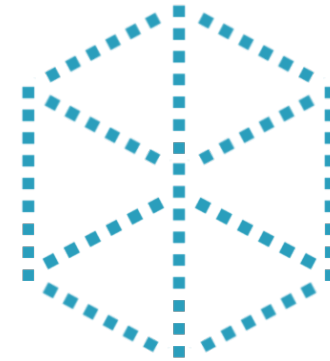


Regular modules implement values  
and behaviours



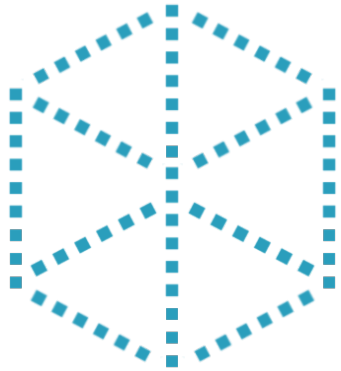


Regular modules implement values  
and behaviours



Ambient modules  
describe implementations





Ambient modules are usually used to describe JavaScript modules



# Overview



How to create an ambient module manually

How to create an ambient module using the compiler

How to use third-party ambient modules

How to augment ambient modules

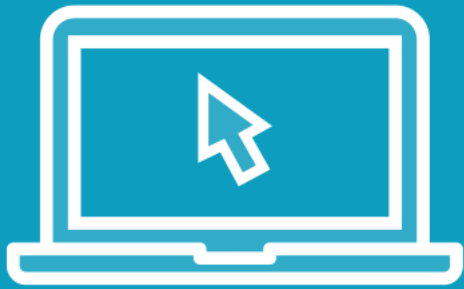


# Creating Ambient Modules

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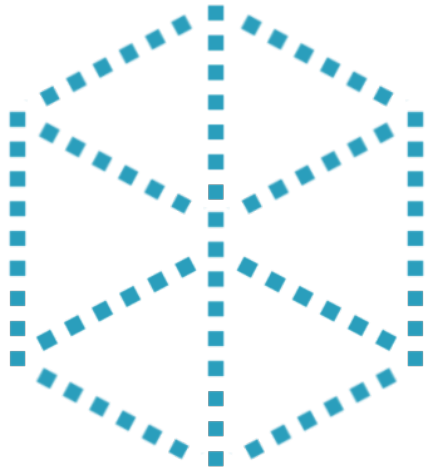


# Demo



Using a JavaScript module inside a TypeScript module





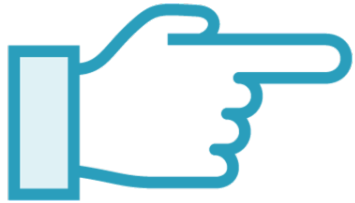
## Ambient modules:

- Have .d.ts extensions
- Referred to as declaration files
- Have the same name as the file they describe



ES modules must be  
referenced by path  
not by name





Next up, using third-party types



# Using Third-party Types

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NPM dependencies are not  
included by the compiler  
by default





Next up, augmenting ambient modules



# Augmenting Ambient Modules

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Use a module loader to  
include NPM dependencies



# Summary



**Ambient modules describe  
JavaScript modules**

**Have a .d.ts extension**

**Also known as declaration files**

**Used to provide type information for  
non-TypeScript files**





# Summary



## In this module we learned

- How to create a simple ambient module manually
- How to create ambient modules automatically
- How to use third-party ambient modules
- How to augment ambient modules





Next up, module resolution deep-dive

