

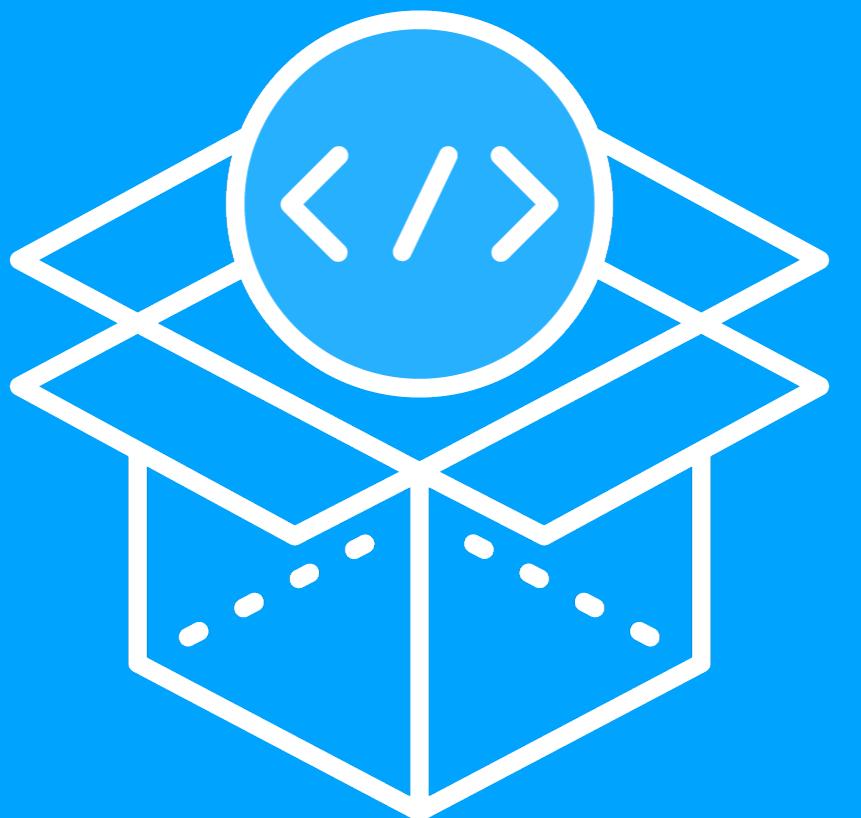
Creating a Type Declaration File in TypeScript 5

Publishing Declaration Files



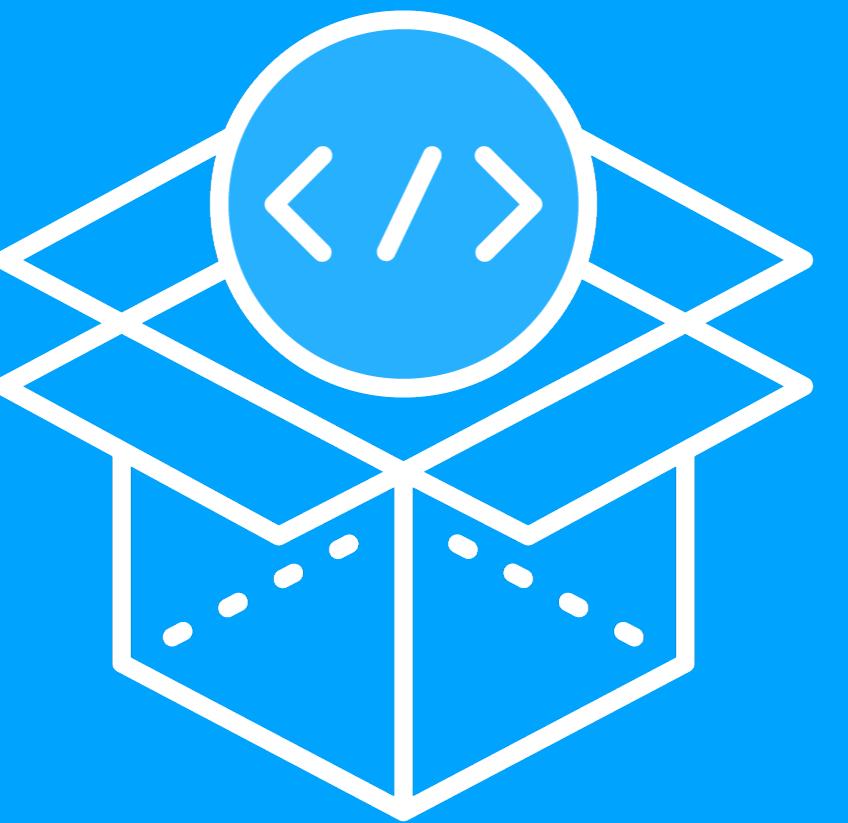
Dan Wellman

Senior Developer



Publishing Declarations with a Modern Library

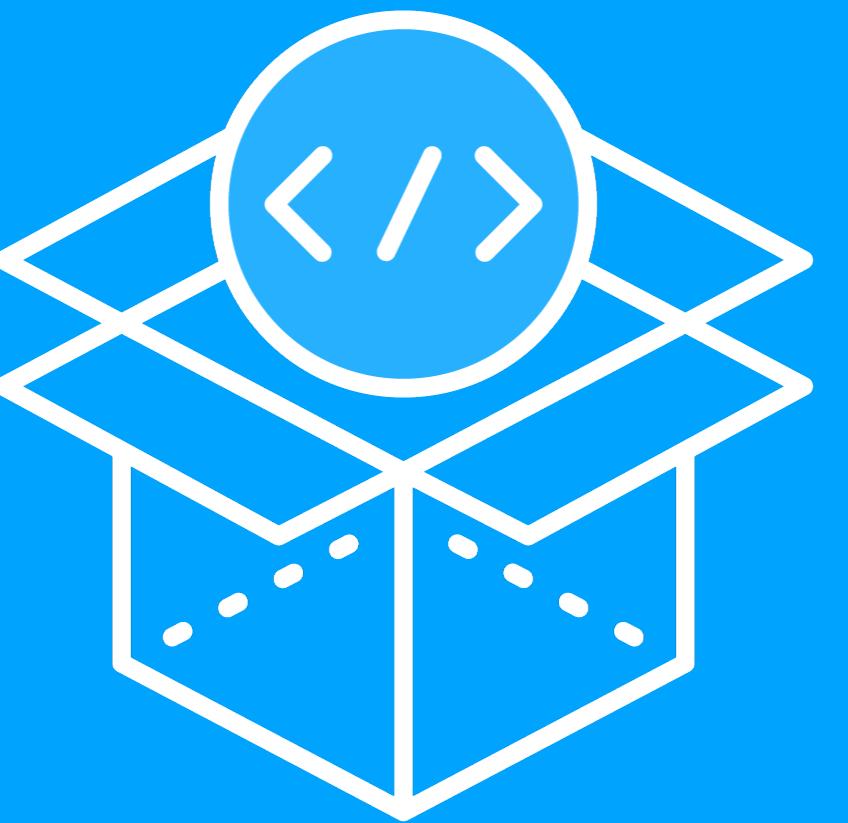




Publishing Declarations with a Modern Library

- Publishing to NPM

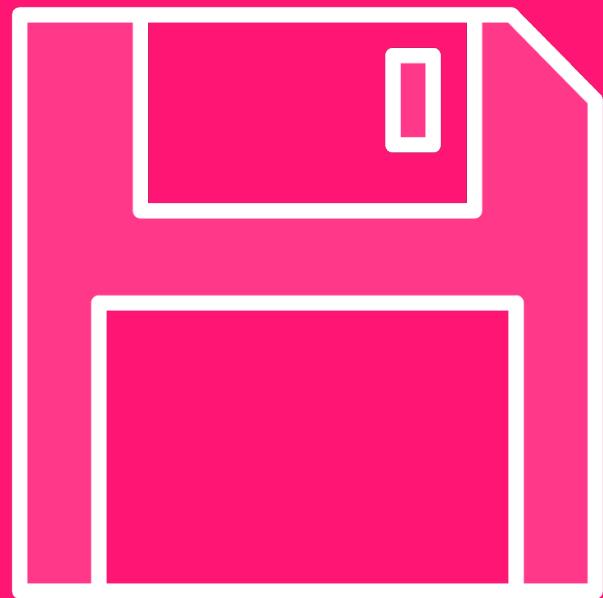




Publishing Declarations with a Modern Library

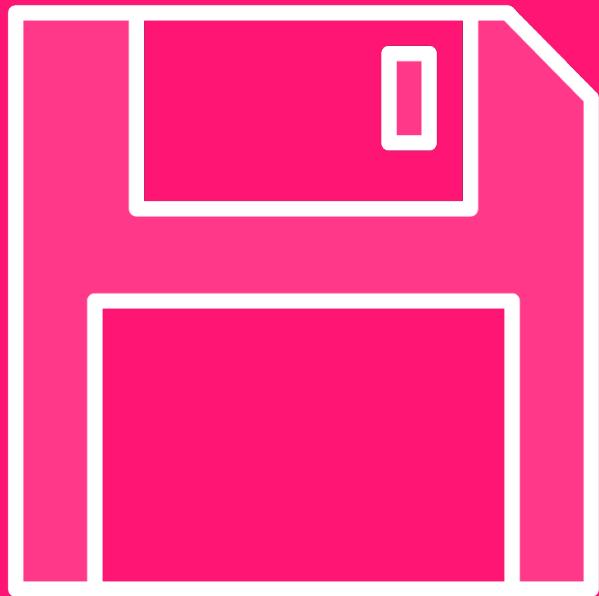
- Publishing to NPM
- From a consumer's perspective





Publishing Declarations for a Legacy Library





Publishing Declarations for a Legacy Library

- Publishing to DefinitelyTyped



A vibrant hot air balloon with horizontal stripes in purple, yellow, red, and blue is the central focus, positioned on the left side of the frame. It is flying over a lush green vineyard with numerous rows of grapevines. In the background, there are rolling hills covered in dense green forests under a vast sky transitioning from blue to warm orange and yellow hues of a setting sun.

Publishing with a Modern Library



Publishing Declarations with Your Library



**Use generated declarations
in active projects with on-
going development**



Create declaration files
manually for JavaScript
projects that aren't being
worked on



A vibrant hot air balloon with a patterned envelope of red, yellow, orange, and purple stripes is the central focus. It is positioned on the left side of the frame, flying over a lush green vineyard. The landscape extends to a dense forest and rolling hills under a vast sky filled with soft, warm-colored clouds at sunset.

Publishing to DefinitelyTyped

Publishing to DefinitelyTyped



**Publishing to
DefinitelyTyped is for older
libraries that don't include
declarations already**



**Publishing to
DefinitelyTyped is for older
libraries that don't include
declarations already, and
when we might write them
manually!**



Summary



**When creating a modern
TypeScript/JavaScript library we
should always include the declarations**



Summary



- Set the declaration property to true in tsconfig.json



Summary



- Set the declaration property to true in `tsconfig.json`
- Use the types field to link to your declarations in `package.json`



Summary



How to publish to DefinitelyTyped



Summary



Course recap



Summary



Declaration files are:

- Used to enforce types in the compiler/editor
- Files with the extension d.ts
- Files that contain ambient type information but no implementation



Summary



Declaration files can:

- Be created by the compiler or manually
- Describe type information for variables, functions, and classes
- Be used for global or modular code



Summary



Declaration files should:

- Be distributed alongside your library
- Be published to DefinitelyTyped if the original library doesn't include its own



A vibrant hot air balloon with a multi-colored envelope (purple, yellow, red, blue) is the central focus, positioned on the left side of the frame. It is flying over a lush green vineyard with numerous rows of grapevines. In the background, there are rolling hills covered in dense green forests under a vast sky transitioning from blue to warm orange and yellow hues of a setting sun.

Thanks for watching!