

# Appendix C. Scoped Declarations

TypeScript declarations have a rich set of behaviors needed to model types and values, and as in JavaScript, they can be overloaded in a variety of ways. This appendix covers two of these behaviors, summarizing which declarations generate types (and which generate values), and which declarations can be merged.

## Does It Generate a Type?

Some TypeScript declarations create a type, some create a value, and some create both. See to [Table C-1](#) for a quick reference.

Table C-1. Does the declaration generate a type?

Keyword	Generates a type?	Generates a value?
<code>class</code>	Yes	Yes
<code>const</code> , <code>let</code> , <code>var</code>	No	Yes
<code>enum</code>	Yes	Yes
<code>function</code>	No	Yes
<code>interface</code>	Yes	No
<code>namespace</code>	No	Yes
<code>type</code>	Yes	No

# Does It Merge?

Declaration merging is a core TypeScript behavior. Take advantage of it to create richer APIs, better modularize your code, and make your code safer.

[Table C-2](#) is reprinted from “[Declaration Merging](#)”; it’s a handy reference for which kinds of declarations TypeScript will merge for you.

Table C-2. Can the declaration be merged?

		To				Types alias
		Value	Class	Enum	Function	
From	Value	No	No	No	No	Yes
	Class	—	No	No	No	No
	Enum	—	—	Yes	No	No
	Function	—	—	—	No	Yes
	Type alias	—	—	—	—	No
	Interface	—	—	—	—	—
		Namespace	—	—	—	—
		Module	—	—	—	—

