Overview

This page describes the options that are available when creating template.json files.

When using the Template Engine the design is to allow you to create a template which is still a "runnable project" A "runnable project" is a project that can be executed as a normal project can. Instead of updating your source files to be tokenized you define replacements, and other processing, mostly in an external file, the template.json file. This requires that a few changes have to be done on the fly during the preparation of the package, and in the template.json we define all the operations needed to create a well working package. You can find a sample of a complex template.json file here Sample.

Category	Description
Package Definition	Metadata of the package
Content Manipulation	Configuration of content changes in source files
Output Management	Configuration of the final output

Package Definition

Name	Description	
identity	A unique name for this template	
author	The author of the template	
classifications	Zero or more characteristics of the	
	template which may be used in	
	search. In this field you define the	
	values shown as Tags in dotnet new	
name	The name for the template. This is	
	displayed as the template name when	
	using dotnet new	
groupIdentity	The ID of the group this template	
	belongs to. When combined with the	
	tagssection, this allows multiple	
	templates to be displayed as one,	
	with the decision for which one to	
	use being presented as a choice in	
	each one of the pivot categories	
	(keys) Details	

Name	Description
tags	You can use tags to improve the
	metadata of your project. To specify
	the project language you have to add
	the tag language Details, and if you
	want to make your project searchable
	via the dotnet newtype
	command you have to use the tag
	type
$\operatorname{shortName}$	A default shorthand for selecting the
	template (applies to environments
	where the template name is specified
	by the user - not selected via a GUI).
	this is the name shown as Short
	Name in dotnet new list of
	templates, and is the name to use
	command list to run this template
postActions	Enables actions to be performed after
	the project is created. See
	https://github.com/dotnet/templating/wiki/Po
	Action-Registry

Content Manipulation

Name	Description	Default
sources	The set of mappings in the template content to user directories. It's defined as any array of Source	If not specified, an implicit source is created with "source": "./" and "target": "./", all other properties in the source are set to their defaults
guids	A list of guids which appear in the template source and should be replaced in the template output. For each guid listed, a replacement guid is generated, and replaces all occurrences of the source guid in the output	

Name	Description	Default
symbols	See Below	

Source Definition

Name	Description	Default
source	The path in the template content (relative to the directory containing the .template.config folder) that should be	./
target	processed The path (relative to the directory the user has specified) that content should be written to	./
include	The set of globbing patterns indicating the content to process in the path referred to by source	["**/*"]
exclude	The set of globbing patterns indicating the content that was included by sources.include that	<pre>["**/[Bb] in/**", "**/[0o] bj/**", ".template.config/**/*" "**/*.filelist", "**/*.user", "**/*.user",</pre>
copyOnly	should not be processed The set of globbing patterns indicating the content that was included by include, that hasn't been excluded by sources.exclude that should be placed in the user's directory without modification	"**/*.lock.json"] ["**/node_modules/**/*"]

Name	Description	Default
rename	The set of explicit	
	renames to perform.	
	Each key is a path to a	
	file in the source, each	
	value is a path to the	
	target location - only	
	the values will be	
	evaluated with the	
	information the user	
	supplies	
condition	A Boolean-evaluable	
	condition to indicate if	
	the sources	
	configuration should be	
	included or ignored. If	
	the condition evaluates	
	to true or is not	
	provided, the sources	
	config will be used for	
	creating the template.	
	If it evaluates to false,	
	the sources config will	
	be ignored	
modifiers	A list of additional	
	source information	
	which gets added to the	
	top-level source	
	information, based on	
	evaluation the	
	corresponding	
	source.modifiers.conditio	n.
	Is defined as an array of	
	Modifier	

Modifier Definition

Name	Description
condition	A Boolean-evaluable condition to
	indicate if the sources.modifiers
	instance should be included or
	ignored. If the condition evaluates to
	true or is not provided, the
	sources.modifiers instance will be
	used for creating the template. If it
	evaluates to false, the
	sources.modifiers config will be
	ignored.
include	Include configuration specific to this
	sources.modifiers instance, contingent
	on the corresponding
	sources.modifiers.condition. See
	sources.include for more info.
exclude	Exclude configuration specific to this
	sources.modifiers instance, contingent
	on the corresponding
	sources.modifiers.condition. See
	sources.exclude for more info
copyOnly	CopyOnly configuration specific to
	this sources.modifiers instance,
	contingent on the corresponding
	sources.modifiers.condition. See
	sources.copyonly for more info

Symbols Introduction The symbols section defines variables and their values, the values may be the defined in terms of other symbols. When a defined symbol name is encountered anywhere in the template definition, it is replaced by the value defined in this configuration. The symbols configuration is a collection of key-value pairs. The keys are the symbol names, and the value contains key-value-pair configuration information on how to assign the symbol a value.

Name	Description	Applies to
type	Defines the high level configuration of symbol. The valid types are: parameter, computed, and generated. The type indicates how the configuration is processed to generate the symbol value: Parameter: A symbol for which the config provides literal and/or default values Computed: A symbol for which the config provides a Boolean predicate whose evaluation result is the computed symbol result Generated: A symbol whose value gets computed by a built-in symbol value generator. See Details	
dataType	Indicates limitations on the valid values a symbol may be assigned. At this point, the only valid datatype is "choice", which also requires providing symbols.choices configuration for the symbol	type=parameter
defaultValue	The value assigned to the symbol if no value for it is provided by the user or host	type=parameter
binding		
replaces	Text value that will be replaced	
fileRename	The fileRename element defines the filenames which will be replaced	

Name	Description	Applies to
description	Human readable text	
	describing the meaning	
	of the symbol. This has	
	no effect on template	
	generation	
isRequired	Indicates if the	Only used when type is
	parameter is required or	set to parameter
	not.	-
choices	List of available choices.	Only used when type is
		choice
value	Value for replacement	type=computed

There are 3 places from which a symbol can acquire its value:

- Template configuration (this).
- Host provided values, which override template configuration values. For example, the host may provide the operating system kind as "Linux", overriding a template default value of "Windows".
- User provided values, which override host & template values. The manner in which these are provided to the template generation broker is specific to the broker. This may be via additional configuration files, command line parameters, inputs to a UI, etc.

Output Management

Name	Description	Default
sourceName	The name in the source	ce
	tree to replace with th	ie
	name the user specifies	s.
	The value to be replac	eed
	with can be given usin	ıg
	the -nname options	}
	while running a templa	ate.
	The template engine w	vill
	look for any occurrance	e of
	the name present in the	ne
	config file and replace	it in
	file names and file cont	tents.
	If no name is specified	by
	the host, the current	
	directory is used.	

completely ignored expect to indicate that its containing directory should be copied. This allows creation of empty directory in the created template, by having a corresponding source directory containing just the placeholder file. Completely empty directories are ignored. A list of important output paths created during template generation. These paths need to be	Name	Description	Default
project at the end of template creation. It's defined as an array of	placeholderFilename	A filename that will be completely ignored expect to indicate that its containing directory should be copied. This allows creation of empty directory in the created template, by having a corresponding source directory containing just the placeholder file. Completely empty directories are ignored. A list of important output paths created during template generation. These paths need to be added to the newly created project at the end of template creation. It's	If not specified, a default value of "" is used.

Primary Output Definition

Name	Description
path	One instance of a primary output path.
condition	If the condition evaluates to true, the corresponding path will be included in the output list. If false, the path is ignored. If no condition is provided for a path, the condition is defaulted to true.

Creation of Multiple Templates shown as one

TODO: Coming soon