

CREATE A NEW PROJECT

Create a new project in the current folder
dotnet new [TEMPLATE]
dotnet new web

Create a new project in a subfolder
dotnet new [TEMPLATE] -o [NAME]
dotnet new web -o Backend
dotnet new mvc -o MyApp
dotnet new console -o MyApp
dotnet new classlib -o MyLib
dotnet new mstest -o MyLib.Test
dotnet new nunit -o MyLib.Test

Get the list of installed templates
dotnet new

MANAGE SOLUTIONS FILES (.SLN)

Create a new .sln file
dotnet new sln

Create a new .sln file in a subfolder
dotnet new sln -o MySolution

List all projects in the solution
dotnet sln list

Add a project to the solution
dotnet sln add [PROJECT_PATH]
dotnet sln add MyLib\MyLib.csproj

Remove a project from the solution
dotnet sln remove [PROJECT_PATH]
dotnet sln remove MyLib/MyLib.csproj

RUN

Run an application
dotnet run

MANAGE PROJECT DEPENDENCIES

Add a reference to another project
dotnet add reference [PROJECT_PATH]
dotnet add reference ../MyLib/MyLib.csproj

Remove a project reference
dotnet remove reference [PROJECT_PATH]
dotnet remove reference ../MyLib/MyLib.csproj

List all project references
dotnet list reference

Add a Nuget package
dotnet add package [PACKAGE]
dotnet add Newtonsoft.Json

Remove a Nuget package
dotnet remove package [PACKAGE]
dotnet remove Newtonsoft.Json

List all project references
dotnet list package

BUILD

Build the project or solution in the current folder
dotnet build

Build the Release configuration
dotnet build -c Release

Build the project or solution
dotnet build [PROJECT/SOLUTION]
dotnet build MySolution.sln

NUGET

Create a nuget package
dotnet pack

Publish a nuget package
dotnet nuget push

TEST

Run the tests
dotnet test

Run the tests and create test report
dotnet test --logger "trx;LogFileName=results.trx"

List all tests without running them
dotnet test -t

Run specific tests
dotnet test --filter "[FILTER]"
dotnet test --filter Unit
dotnet test --filter "TestCategory=Database"
dotnet test --filter "TestCategory!=Slow"
dotnet test --filter "Unit&(TestCategory=Cat1)"

PUBLISH

Publish the project or solution from the current folder
dotnet publish

Publish specific project or solution
dotnet publish [FOLDER]
dotnet publish MyApp

Build a self-contained executable for Windows
dotnet publish -c Release -r win-x64 -f netcoreapp2.2

Build a self-contained executable for Linux
dotnet publish -c Release -r linux-x64 -f netcoreapp2.2

GLOBAL TOOLS

Install a global tool
dotnet tool install -g [TOOLNAME]

Uninstall a global tool
dotnet tool uninstall -g [TOOLNAME]

List all globally installed tools
dotnet tool list -g