

CHEATSHEET FOR DOTNET CLI

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 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`

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`

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`

RUN

Run an application
`dotnet run`

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`