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# **cmake\_converter Documentation**

*Release 2.2*

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**Sep 28, 2021**



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### 1.1 About CMake Converter

CMake Converter is an open source software written in Python under the terms of the [GNU Affero General Public License](#) .

This application is for developers and integrators who want to automate the creation of `CMakeLists.txt` for their build systems from Visual Studio solution files.

### 1.2 Features

CMake Converter converts your `*.sln` file (`vcxproj` and `vfproj` are supported only) into corresponding tree of `CMakeLists.txt`. It tries to translate data such as compile and link flags, project files, project dependencies, outputs of the produced binaries and more into CMake language.

### 1.3 Release cycle

CMake Converter has no strict schedule for releasing.

Other features will come in the next versions and you can propose new features through [project issues](#). Each feature is discussed in a separate issue.

### 1.4 About CMake

In this documentation, you'll find some reminders about CMake and how the script handles your project's data inside. For example, how the generated `CMakeLists.txt` manage dependencies.

But a minimum of knowledge on [CMake](#) is **recommended** !





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## Install CMake Converter

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### 2.1 Requirements

You must have **Python 3** installed to make this library work.

**Note:** CMake Converter is **not compatible** with Python 2 !

### 2.2 Installation (from Pip)

You can install cmake-converter as a standard python library, with pip:

```
pip install cmake_converter
```

Install last pre-release or development version of cmake-converter:

```
pip install --pre cmake_converter
```

### 2.3 Installation (from Sources)

#### 2.3.1 Clone and install

To install from sources, you've to clone this repository and make a pip install:

```
git clone https://github.com/algorys/cmakeconverter.git
cd cmakeconverter
pip install .
```

## **2.3.2 External Libraries**

You need to install Python modules that are listed in `requirements.txt` file with `pip`:

```
colorama
lxml
```

### 3.1 Quick Use

To use `cmake-converter`, simply give your `*.sln` file to `cmake-converter` command:

```
cmake-converter -s <path/to/file.sln>
```

### 3.2 Advance Usage

The `cmake-converter` command accepts a lot of parameters to try to suit the majority of situations.

#### 3.2.1 Main

Manage script arguments and launch

### 3.3 Solution Conversion

With `cmake-converter`, you can convert full Visual Studio solutions.

The script will extract data from all supported `*proj` files and create the corresponding **CMakeLists.txt**.

With the following project structure:

```
project/  
├── msvc  
│   ├── libone  
│   │   └── libone.vcxproj  
│   ├── libtwo  
│   │   └── libtwo.vcxproj
```

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```
└─ myexec
  └─ myexec.sln
  └─ myexec.vcxproj
```

Then you'll run cmake-converter as follow:

```
cmake-converter \
--solution=project/msvc/myexec/myexec.sln \
--verbose-mode \
--private-include-directories \
--warning-level=3
```

And you'll have the following CMakeLists.txt generated:

```
project/
└─ msvc
  └─ libone
    └─ CMakeLists.txt      *
    └─ libone.vcxproj
  └─ libtwo
    └─ CMakeLists.txt      *
    └─ libtwo.vcxproj
  └─ myexec
    └─ CMake                *
      └─ Default*.cmake    *
      └─ Utils.cmake        *
    └─ CMakeLists.txt      *
    └─ myexec.sln
    └─ myexec.vcxproj
```

## 3.4 Hints

You can add CMake/GlobalSettingsInclude.cmake file for global custom CMake settings.

Pay attention on warnings and do proposed fixes.

Run cmake-converter --help for more info.

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## Generated CMakeLists.txt

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All **CMakeLists.txt** generated by cmake-converter follow the same hierarchy. If you converted a solution, each converted directory with \*.proj file will have its own file.

In order to facilitate their understanding, the generated files are organized by “section”. Here is a description for each of them. Actually each section at generated scripts is separated with comment and can be read well.

### 4.1 Root of CMake tree

After conversion the root of CMake tree appears beside \*.sln file. So, give the path of the root CMakeLists.txt to cmake to parse all converted tree. Root CMakeLists.txt contains info about:

1. Architectures used **in** solution.
2. Solution configuration names.
3. Windows SDK version used.
4. Sets cmake minimum required version.
5. Includes optional GlobalSettingsInclude.cmake
6. Adds **all** converted subdirectories **with** projects.

### 4.2 Top of file (project)

Creating of corresponding Visual Studio project with used languages.

### 4.3 Files & Targets

#### 4.3.1 Files (source groups)

Converter will collect all your source files and add them to the corresponding target. The files will be added according source groups and sorted alphabetically.

**IMPORTANT:** names of source groups must be without special symbols (only CMake like variable). Spaces are accepted.

### 4.3.2 Library & Executable (target)

After script get all information, he create your library (*STATIC* or *SHARED*) or your executable. Also here may be used `add_precompiled_header` if `PCH` is turned on.

### 4.3.3 Property files (\*.props)

Converter does not support translation of property. It adds links to correspondent files at the same location. Example: if we have following link at source xml:

```
f1/f2/my-settings.props
```

You'll get usage of similar cmake file that should be created manually:

```
use_props(${PROJECT_NAME}      "${CMAKE_CONFIGURATION_TYPES}"      "f1/f2/my-  
settings.cmake")
```

In case of absence of cmake file CMake will throw warning:

```
Corresponding cmake file from props <cmake-file-name> doesn't exist
```

## 4.4 Include directories

Adds include directories from corresponding visual studio project. Includes are `PUBLIC` by default. But you may use `-private-include-directories` to make them private and make your solution smarter.

## 4.5 Compile definitions

Adds compile definitions from corresponding visual studio project.

## 4.6 Compile and link options

The biggest part of the work done by CMake Converter. CMake-converter will add flags for each `$<CONFIG>`. Only `MSVC` and `ifort` compilers are supported. Flags applied with `target_compile_options` and `target_link_options`.

### 4.6.1 Linux

On Linux only translation of `ifort` options is supported.

### 4.6.2 Windows

`MSVC` and `ifort` options are supported.

## 4.7 Dependencies

Dependencies are binaries you have set in “Additional Dependencies” of your **\*proj** project, like shared or static libraries or references to other solution projects. `add_dependencies` command contains corresponding references. `target_link_libraries` command contains references that need to link and other external dependencies. `target_link_directories` may be used here as well.

Also cmake converter tries to read info about used NuGet packages and makes stubs for using it with `use_package` function.





CMake Converter try to take as much information as possible from your **\*proj** file. However, it's recommended to read and test the generated **CMakeLists.txt** before using it in production !

Once CMake Converter has generated a **CMakeLists.txt** file, to compile with CMake, type the following commands:

```
# Go to CMake tree root (not necessary, may be relative):  
cd path/to/Root/of/CMake/tree  
# Generate the "Makefile"  
cmake -S . -B build  
# Launch compilation  
cmake --build build
```

You can also provide a specific **Generator** with `-G "<GENERATOR_NAME>"`. Please refer to [CMake Generator Documentation](#).

You can provide the build type by add `-DCMAKE_BUILD_TYPE=<BUILD_TYPE>`.

CMake provides a lot of other options that you can discover in their official documentation.



## 6.1 DataConverter

Manage conversion of data into CMake

**class** `cmake_converter.data_converter.DataConverter`

Bases: `object`

Base class for converters

**static** `collect_data` (*context*)

Collect data for converter.

**convert\_project** (*context*, *xml\_project\_path*, *cmake\_lists\_destination\_path*)

Method template for data collecting and writing

**static** `copy_cmake_utils` (*cmake\_lists\_path*)

Copy necessary util files into CMake folder

**do\_conversion** (*project\_context*, *input\_data\_for\_converter*)

Executes conversion with given projects input data

**merge\_data\_settings** (*context*)

Merge common settings found among configuration settings (reduce copy-paste)

**Parameters** *context* –

**Returns**

**run\_conversion** (*subdirectory\_targets\_data*)

Routine that converts projects located at the same directory

**verify\_data** (*context*)

Verify procedure after gathering information from source project

**static** `write_data` (*context*, *cmake\_file*)

Write data defined in converter.

**Parameters**

- **context** (*Context*) – converter context
- **cmake\_file** (*\_io.TextIOWrapper*) – CMakeLists IO wrapper

## 6.2 Context object descriptor

**class** `cmake_converter.context.Context`

Bases: `object`

Converter context

**clone** ()

Deep clone of Context

**Returns**

**static** `get_project_initialization_dict` ()

Get initializer functors mapped to path keys

**init** (*source\_project\_path*, *cmake\_lists\_destination\_dir*)

Initialize instance of Context with Initializer

**Parameters**

- **source\_project\_path** –
- **cmake\_lists\_destination\_dir** –

**Returns**

**set\_cmake\_lists\_path** (*cmake\_lists*)

Set CMakeLists.txt path in context, for given project

**Parameters** **cmake\_lists** (*str*) – path of CMakeLists related to project name

## 6.3 Data Files

Manage the **VS Project** data and creation of **CMakeLists.txt** file

`cmake_converter.data_files.get_cmake_lists` (*context*, *cmake\_path=None*, *open\_type='w'*)

Create CMakeLists.txt file in wanted “cmake\_path”

**Parameters**

- **context** (*Context*) – the context of converter
- **cmake\_path** (*str*) – path where CMakeLists.txt should be open
- **open\_type** (*str*) – type that CMakeLists.txt should be opened

**Returns** cmake file wrapper opened

**Return type** `_io.TextIOWrapper`

`cmake_converter.data_files.get_definitiongroup` (*target\_platform*)

Return ItemDefinitionGroup namespace depends on platform and target

**Parameters** **target\_platform** (*tuple[str, str]*) – wanted target: debug | release

**Returns** wanted ItemDefinitionGroup namespace

**Return type** `str`

`cmake_converter.data_files.get_propertygroup(target_platform, attributes=)`  
 Return “property\_groups” value for wanted platform and target

**Parameters**

- **target\_platform** (*tuple[str, str]*) – wanted target: debug | release
- **attributes** (*str*) – attributes to add to namespace

**Returns** “property\_groups” value

**Return type** *str*

`cmake_converter.data_files.get_vcxproj_data(context, vs_project)`  
 Return xml data from “vcxproj” file

**Parameters**

- **context** (*Context*) – the context of converter
- **vs\_project** (*str*) – the vcxproj file

**Returns** dict with VS Project data

**Return type** *dict*

`cmake_converter.data_files.get_xml_data(context, xml_file)`  
 Return xml data from “xml” file

**Parameters**

- **context** (*Context*) – the context of converter
- **xml\_file** (*str*) – the xml file

**Returns** dict with VS Project data

**Return type** *dict*

`cmake_converter.data_files.search_file_path(context, xml_file)`  
 Util function for checking file in path.

## 6.4 Dependencies

Manage directories and libraries of project dependencies

**class** `cmake_converter.dependencies.Dependencies`

Bases: *object*

Class who find and write dependencies of project, additional directories...

**static** `get_dependency_target_name(context, vs_project)`

Return dependency target name

**Parameters**

- **context** (*Context*) – the context of converter
- **vs\_project** (*str*) – path to “vcxproj” file

**Returns** target name

**Return type** *str*

**static** `set_additional_include_directories(aid_text, setting, context)`

Return additional include directories of given context

**Parameters**

- **aid\_text** (*str*) – path to sources
- **setting** (*str*) – current setting (Debug|x64, Release|Win32,...)
- **context** (*Context*) – current context

**Returns** include directories of context, separated by semicolons

**Return type** *str*

**static set\_target\_additional\_dependencies\_impl** (*context, dependencies\_text, splitter*)

Implementation of Handler for additional link dependencies

## 6.5 Flags

Manage compilation flags of project

**class** `cmake_converter.flags.Flags`

Bases: `object`

Class who manage flags of projects

**static get\_no\_default\_lib\_link\_flags** (*flag\_value*)

Helper to get list of /NODEFAULTLIB flags

## 6.6 ProjectFiles

Manages the recovery of project files

**class** `cmake_converter.project_files.ProjectFiles`

Bases: `object`

Class that collects and store project files

**add\_file\_from\_node** (*context, \*\*kwargs*)

Adds file into source group and creates file context using into from xml node

**apply\_files\_to\_context** (*context*)

Analyzes collected set of files and initializes necessary variables

**find\_cmake\_target\_languages** (*context*)

Add CMake Project

**include\_directive\_case\_check** (*context, file\_path\_name, file\_lists\_for\_include\_paths*)

Dummy to fix crash

**init\_file\_lists\_for\_include\_paths** (*context*)

For include directive case ad path checking. Works only with vfproj. :param context: :return:

## 6.7 ProjectVariables

Manage creation of CMake variables that will be used during compilation

**class** `cmake_converter.project_variables.ProjectVariables`

Bases: `object`

Class that manages project variables

**static** `set_output_dir_impl` (*context*, *output\_node\_text*)

**Parameters**

- `context` –
- `output_node_text` –

**Returns**

**static** `set_output_file_impl` (*context*, *output\_file\_node\_text*)

Common routine for evaluating path and name of output file

**static** `set_path_and_name_from_node` (*context*, *node\_name*, *file\_path*, *path\_property*, *name\_property*)

Common routine for evaluating path and name from node text

**static** `set_target_name` (*context*, *target\_name\_value*)

Evaluates target name and sets it into project context

## 6.8 Utils

Utils manage function needed by converter

**class** `cmake_converter.utils.Utils`

Bases: `object`

Basic Class for holding util functions needed by converter

**init\_context\_current\_setting** (*context*)

Define settings of converter.

**Parameters** `context` (`Context`) – converter context

**static** `lists_of_settings_to_merge` ()

Lists of keys of settings at context that will be merged

`cmake_converter.utils.check_for_relative_in_path` (*context*, *path*, *remove\_relative=True*)

Return path by adding CMake variable or current path prefix, to remove relative

**Parameters**

- `context` (`Context`) – the context of converter
- `path` (*str*) – original path
- `remove_relative` (*bool*) – flag

**Returns** formatted path without relative

**Return type** `str`

`cmake_converter.utils.cleaning_output` (*context*, *output*)

Clean Output string by remove VS Project Variables

**Parameters**

- `context` (`Context`) – the context of converter
- `output` (*str*) – Output to clean

**Returns** clean output

**Return type** `str`

`cmake_converter.utils.escape_string` (*context*, *wrong\_chars\_regex*, *input\_str*)

Removes wrong chars from input string

`cmake_converter.utils.get_actual_filename` (*context*, *name*)

Return actual filename from given name if file is found, else return None

**Parameters**

- **context** (`Context`) – the context of converter
- **name** (`str`) – name of file

**Returns** None | `str`

**Return type** None | `str`

`cmake_converter.utils.get_dir_name_with_vars` (*context*, *path*)

Tries to split directory and filename from given path

`cmake_converter.utils.get_global_project_name_from_vcproj_file` (*vcproj*)

Return global project name from “.vcproj” file

**Parameters** **vcproj** (`dict`) – vcproj data

**Returns** project name

**Return type** `str`

`cmake_converter.utils.get_mapped_architectures` (*sln\_setting\_2\_project\_setting*, *arch*)

Get all projects architectures that mapped onto given solution one

`cmake_converter.utils.get_mount_point` (*path*)

Returns mount point of given path

`cmake_converter.utils.init_colorama` ()

Initialization of colorful console output

`cmake_converter.utils.insensitive_glob` (*path*)

Searches given path case insensitive

`cmake_converter.utils.is_settings_has_data` (*sln\_configurations\_map*, *settings*, *settings\_key*, *sln\_arch=None*, *conf=None*)

Checker of available settings in context

`cmake_converter.utils.make_cmake_configuration` (*context*, *sln\_configuration*)

Tries to make cmake configuration name from sln\_configuration

`cmake_converter.utils.make_cmake_literal` (*context*, *input\_str*)

Tries to make cmake literal from input string

`cmake_converter.utils.make_os_specific_shell_path` (*output*)

Tries to make path readable with CMake

`cmake_converter.utils.message` (*context*, *text*, *status*)

Displays a message while the script is running

**Parameters**

- **context** (`Context`) – the context of converter
- **text** (`str`) – content of the message
- **status** (`str`) – level of the message (change color)



`cmake_converter.utils.normalize_path` (*context*, *working\_path*, *path\_to\_normalize*, *remove\_relative=True*, *unix\_slash=True*)

Normalize path from working path

**Parameters**

- **context** (*Context*) – the context of converter
- **working\_path** (*str*) – current working path
- **path\_to\_normalize** (*str*) – path to be normalized
- **remove\_relative** (*bool*) – remove relative from path flag
- **unix\_slash** (*bool*) – apply UNIX slash

**Returns** normalized path

**Return type** *str*

`cmake_converter.utils.prepare_build_event_cmd_line_for_cmake` (*context*, *build\_event*)

Tries to fit build event command to be compliant CMake language

`cmake_converter.utils.replace_vs_var_with_cmake_var` (*context*, *var*)

Translate Visual studio variable into CMake variable

`cmake_converter.utils.replace_vs_vars_with_cmake_vars` (*context*, *output*)

Translates variables at given string to corresponding CMake ones

`cmake_converter.utils.resolve_path_variables_of_vs` (*context*, *path\_with\_vars*)

Evaluates paths with visual studio variables

`cmake_converter.utils.set_native_slash` (*raw\_path*)

Set native slash

**Parameters** **raw\_path** (*str*) – any style path

**Returns** unix style path

**Return type** *str*

`cmake_converter.utils.set_unix_slash` (*win\_path*)

Set windows path to unix style path

**Parameters** **win\_path** (*str*) – windows style path

**Returns** unix style path

**Return type** *str*

`cmake_converter.utils.take_name_from_list_case_ignore` (*context*, *search\_list*, *name\_to\_search*)

Return real name of name to search

**Parameters**

- **context** (*Context*) – the context of converter
- **search\_list** (*list*) – list to make research
- **name\_to\_search** (*str*) – name to search in list

**Returns** real name

**Return type** *str*



# CHAPTER 7

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