

# WRPlive

## Introduction

Docfx is a powerful tool but easy to use for most regular use cases, once you understand the basic concepts.

Docfx can be used as a static site generator, but the real value of the tool is in bringing together static documentation pages and .NET API documentation. Docfx supports both C# and VB projects (although currently the output of tool is limited to C# syntax), and relies on the long-established [XML comment syntax](#) for C# (and [similarly for VB](#)). For example, the following C# code:

```
/// <summary>
/// Calculates the age of a person on a certain date based on the supplied date of birth.
Takes account of Leap years,
/// using the convention that someone born on 29th February in a Leap year is not legally one
year older until 1st March
/// of a non-leap year.
/// </summary>
/// <param name="dateOfBirth">Individual's date of birth.</param>
/// <param name="date">Date at which to evaluate age at.</param>
/// <returns>Age of the individual in years (as an integer).</returns>
/// <remarks>This code is not guaranteed to be correct for non-UK locales, as some countries
have skipped certain dates
/// within living memory.</remarks>
public static int AgeAt(this DateOnly dateOfBirth, DateOnly date)
{
    int age = date.Year - dateOfBirth.Year;

    return dateOfBirth > date.AddYears(-age) ? --age : age;
}
```

can be used to generate output like this:



Static documentation pages are prepared using [Markdown](#) (slightly enhanced to support specific features). Markdown content can also be injected into the generated API documentation using a feature called 'Overwrites'.

Once the API documentation has been parsed from the source code, it is compiled along with the Markdown content into a set of HTML pages which can be published on a website. It is also possible to compile the final output into one or more PDFs for offline use.

Docfx is a command-line tool that can be invoked directly, or as a .NET Core CLI tool using the `dotnet` command, but it can also be invoked from source code using the `Docset.Build` method in the `Docfx` namespace. It is configured using a JSON configuration file, [docfx.json](#) which has sections for different parts of the build process.

## Consuming .NET projects

The most common use case for processing .NET projects is to specify one or more .csproj files in the `docfx.json` file:

```
{
  "metadata": [
    {
      "src": [
        {
          "files": [
            "src/MyProject.Abc/*.csproj",
            "src/MyProject.Xyz/*.csproj"
          ],
          "src": "path/to/csproj"
        }
      ],
      "dest": "api"
    }
  ],
  //...
}
```

Although Docfx can build a documentation website in one step, it's helpful to understand the separate steps the tool uses to generate its output.

The first step is called the **metadata** step and can be completed using the following command line:

```
docfx metadata path/to/docfx.json
```

This command reads all the source files specified by the projects listed in `docfx.json` and searches for XML documentation entries. Note that this step does not use `.xml` compiler output but rather uses the [Roslyn compiler](#) to navigate the supplied codebase. The output of this step is a set of YAML files that are stored in the `dest` folder specified in `docfx.json`.

Here's an example of the (partial) output from the above code example:

```
### YamlMime:ManagedReference
items:
- uid: MyProject.Extensions.DateOnlyExtensions.AgeAt(System.DateOnly,System.DateOnly)
  commentId: M:MyProject.Extensions.DateOnlyExtensions.AgeAt(System.DateOnly,System.DateOnly)
  id: AgeAt(System.DateOnly,System.DateOnly)
  isExtensionMethod: true
  parent: MyProject.Extensions.DateOnlyExtensions
  langs:
  - csharp
```

```
- vb
name: AgeAt(DateOnly, DateOnly)
nameWithType: DateOnlyExtensions.AgeAt(DateOnly, DateOnly)
fullName: MyProject.Extensions.DateOnlyExtensions.AgeAt(System.DateOnly, System.DateOnly)
type: Method
source:
  remote:
    path: src/MyProject/Extensions/DateOnlyExtensions.cs
    branch: main
    repo: https://github.com/MyUser/MyProject.git
  id: AgeAt
  path: ../../MyProject/src/MyProject/Extensions/DateOnlyExtensions.cs
  startLine: 63
assemblies:
- MyProject.Common
namespace: MyProject.Extensions
summary: >-
  Calculates the age of a person on a certain date based on the supplied date of birth. Takes
  account of leap years, using the convention that someone born on 29th February in a leap year is
  not legally one year older until 1st March of a non-leap year.
```

For the most part, it isn't important to know too much about the output of the `metadata` step, except where you want to make reference to entities from your Markdown content. When doing so, you need to reference the relevant `uid` from the YAML file. However, as you can see, the `uid` is the same as the full signature of the entity or method including the namespace.

It's also worth knowing that the `metadata` step generates `toc.yml`, a table-of-contents file for the input source code, grouped by .NET namespace. This is the only auto-generated table-of-contents file; all other `toc.yml` must be manually created/edited.

### NOTE

In addition to using `.csproj` files for input, it is also possible to generate the intermediate YAML output from compiled `.dll` (or `.exe`) and `.xml` files. See [.NET API Docs](#) for further details.

## Documentation Build Process

The next step is called the **build** step and can be completed using the following command line:

```
docfx build path/to/docfx.json
```

(You can append `--serve` to this step and Docfx will start a local web server so you can preview the final output.)

Internally, there are many parts to this step, but in short, Docfx does the following during the `build` step:

- resolve all cross-references
- convert the YAML content from the `metadata` step into a structured data format, for passing onto the template engine
- convert all Markdown content into HTML
- apply templates and themes

Conversion of Markdown to HTML is achieved using the [Markdig](#) CommonMark-compliant Markdown processor.

Template and theme processing is the one part of Docfx that is not coded in C#; instead the [Jint JavaScript interpreter](#) is used to run a set of JavaScript scripts; this approach allows an extra level of customisation of the build process as Docfx provides a way to override the default scripts using the template section of the `docfx.json` file:

```
{
  "build": {
    //...
    "output": "_site",
    "template": [
      "default",
      "modern",
      "templates/mytemplate"
    ]
  }
}
```

In this example, Docfx first searches the `templates\mytemplate` folder, then the `modern` folder, then `default` folder for each `.css` or `.js` file. Note that `default` and `modern` templates are included with Docfx and included in the Docfx installation packaged alongside the Docfx executable.

(The embedded templates can be exported using the command

```
docfx template export default -o path/for/exported_templates
```

where `default` is the name of the template being exported. The command `docfx template list` can be used to list the embedded templates within Docfx.)

## Spotter

Spotter is a powerful feature designed to help you identify and track important items in the Armoury Vault. Whether you're using barcodes, RFID, or visual detection, Spotter ensures you always know the exact location of your equipment.

- Features:
- Barcode Scanning: Effortlessly scan barcodes to keep track of your items.
- RFID Tracking: Utilize RFID technology for real-time item tracking.
- Visual Detection: Use advanced image recognition to automatically identify items.
- Benefits:
- Increased Efficiency: Quickly locate your items with minimal effort.
- Real-Time Updates: Get instant notifications when an item moves or is accessed.
- Security: Ensure that only authorized personnel can access sensitive equipment.
- Usage:
- Open the Spotter tool in the Armoury Vault.
- Select the scanning method: Barcode, RFID, or Visual.
- Scan the item or use the visual detection system to identify and track your equipment.
- Receive real-time updates and alerts.

## Lorem Ipsum:

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## Video

You can embed a video in your page by using the following Markdown syntax:

```
[!Video embed_link]
```

Example:

```
[!Video https://www.youtube.com/embed/Sz1lCeedcPI]
```

This will be rendered as:

```
[!Video https://www.youtube.com/embed/Sz1lCeedcPI]
```

## Image

You can embed a image in your page by using the following Markdown syntax:



Example:

![alt-text](<https://learn.microsoft.com/en-us/media/learn/not-found/learn-not-found-light-mode.png?branch=main>)

This will be rendered as:

# Pulse

## Features:

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- **RFID Tracking:** Utilize RFID technology for real-time item tracking.
- **Visual Detection:** Use advanced image recognition to automatically identify items.

## Benefits:

- **Increased Efficiency:** Quickly locate your items with minimal effort.
- **Real-Time Updates:** Get instant notifications when an item moves or is accessed.
- **Security:** Ensure that only authorized personnel can access sensitive equipment.

## Usage:

1. Open the DigitAll tool in the Armoury Vault.
2. Select the scanning method: Barcode, RFID, or Visual.
3. Scan the item or use the visual detection system to identify and track your equipment.
4. Receive real-time updates and alerts.

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## Intro to DocFX



## Image

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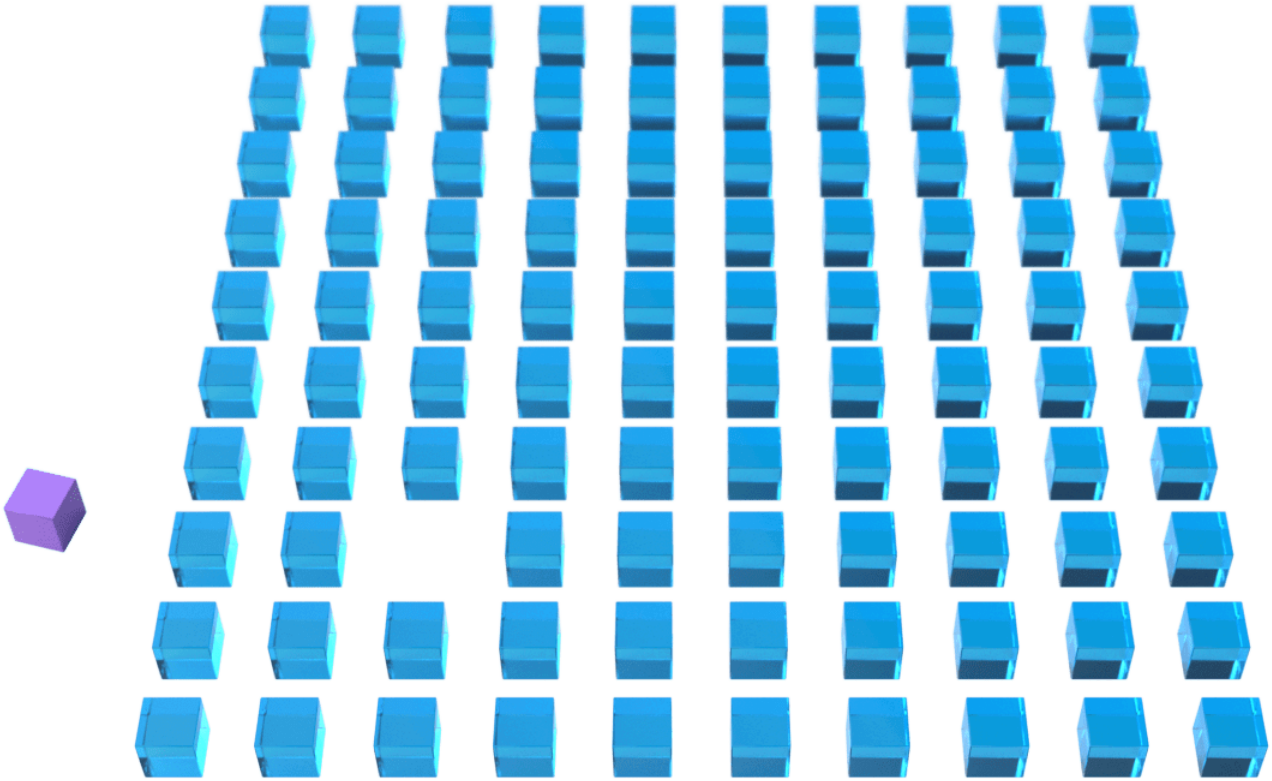
```
(<image-link>)
```

Example:

```
(https://learn.microsoft.com/en-us/media/learn/not-found/learn-not-found-light-mode.png?branch=main)
```

This will be rendered as:







# RAPS Reports

## RAPS Message Alerts

# RAPS Dashboard

# RAPS Import

## RAPS Auto Import Film Number

# RAPS Reporting



# RAPS Screens Summary

# Enemy

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## Intro to DocFX



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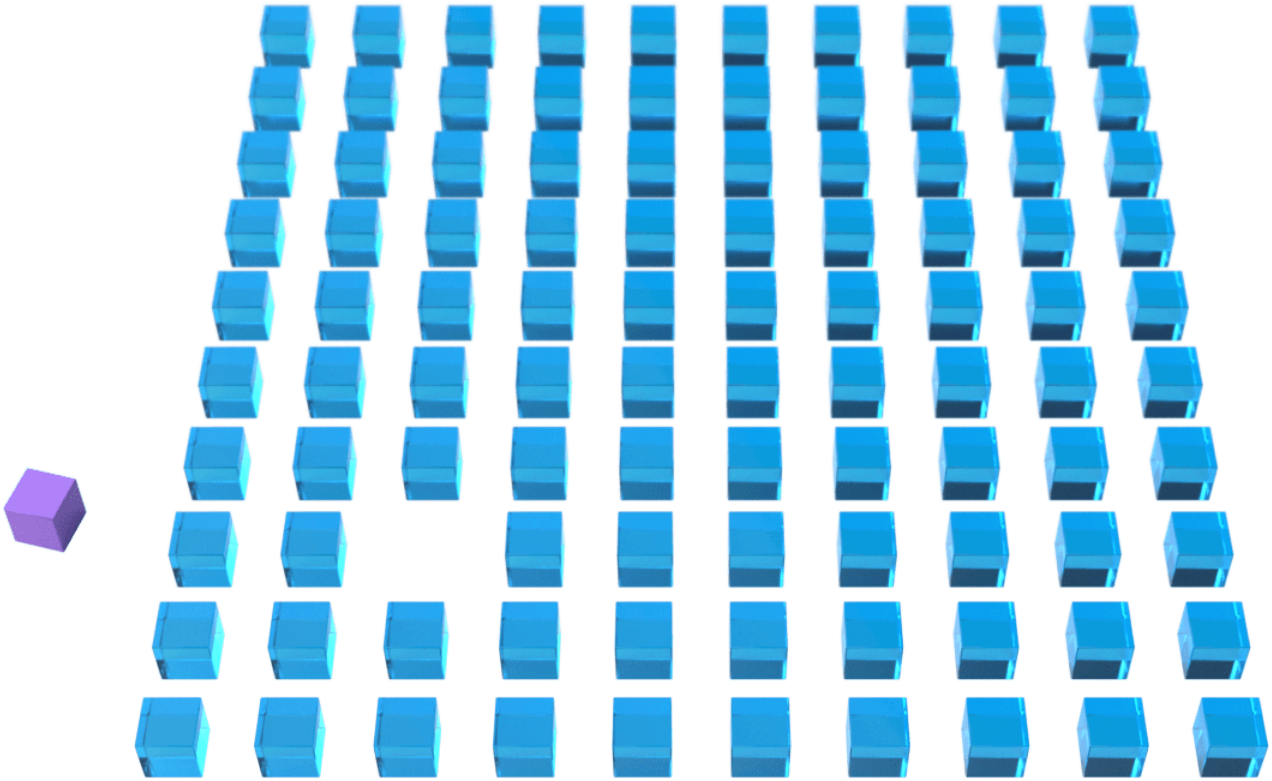
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(https://learn.microsoft.com/en-us/media/learn/not-found/learn-not-found-light-mode.png?branch=main)
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# DigitAll

DigitAll is a powerful feature designed to help you identify and track important items in the Armoury Vault. Whether you're using barcodes, RFID, or visual detection, DigitAll ensures you always know the exact location of your equipment.

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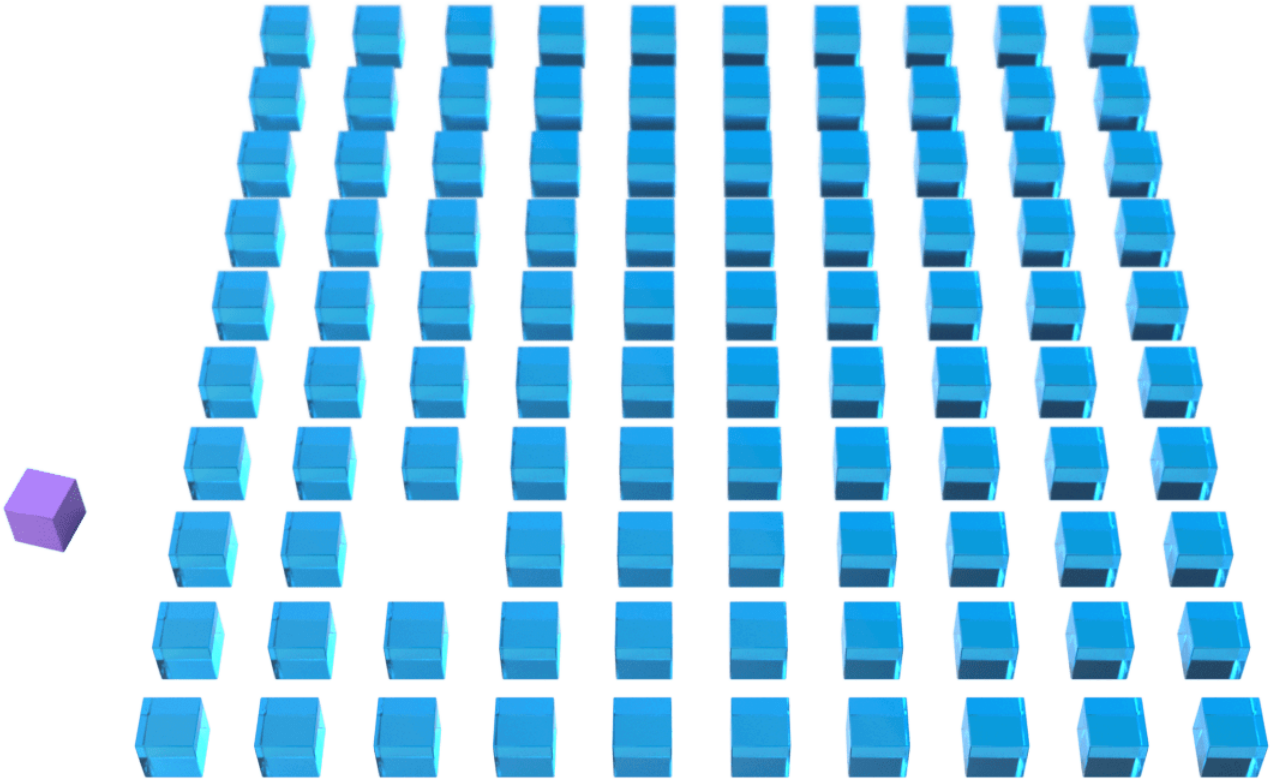
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# Armoury

## Features:

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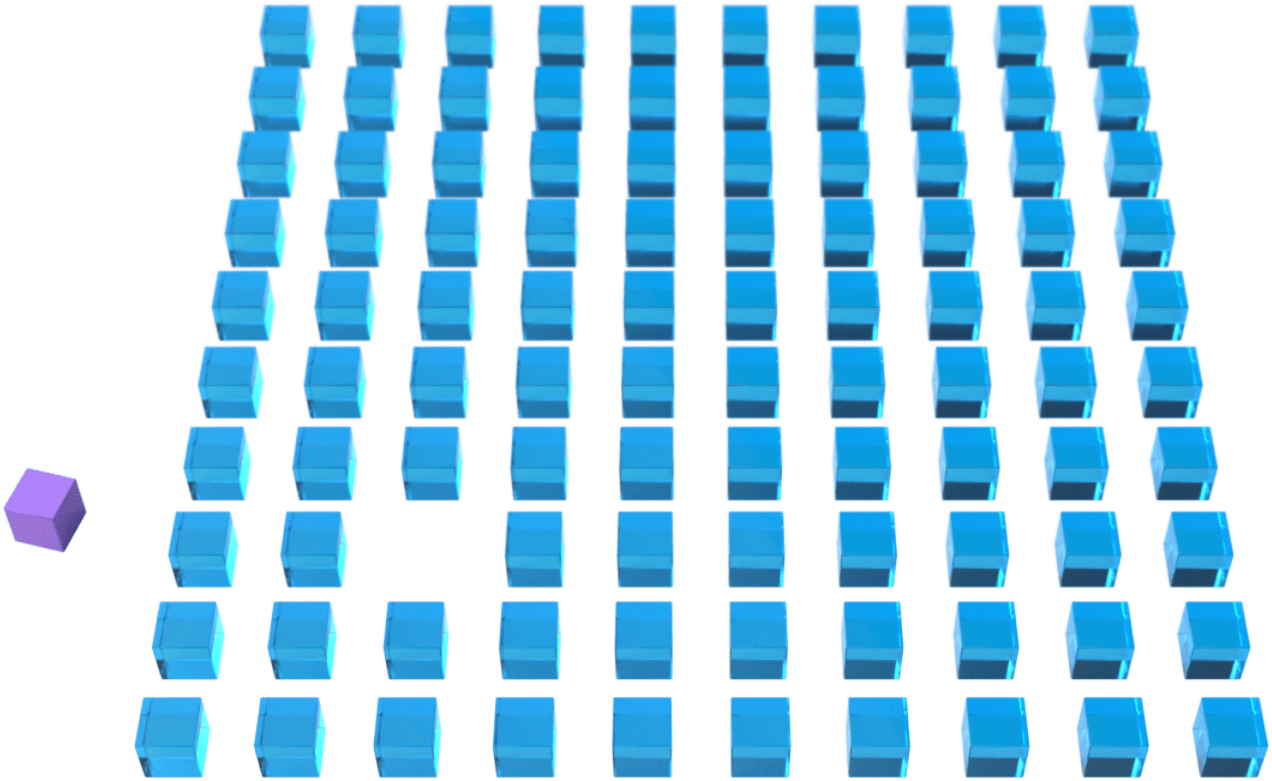
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Example:

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(https://learn.microsoft.com/en-us/media/learn/not-found/learn-not-found-light-mode.png?branch=main)
```

This will be rendered as:



# Sys Admin

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