# Model Sample

## Introduction

A model can optionally be specified when you create a document:

var document = DocumentFactory.Create(viewPath, model);

document.Generate(documentPath);

The specified model will be used for every generated document.

The assembly containing the model will automatically be referenced. Also, the namespace of the model will be imported automatically.

From the view (i.e. this Word document), the model can be accessed using the Model property. The model is strongly typed, so you can access all fields/properties/methods without casting. In this example, the model is of type Model.Models.DocumentViewModel and looks like this:

public class DocumentViewModel

{

public string Title { get; set; }

public string Date { get; set; }

public List<Country> Countries { get; set; }

public DateTime? AverageDateProclaimed { get; set; }

public int? AveragePopulation { get; set; }

}

If you want to use a different instance of the model, call document.SetModel(newModel) before calling the Generate method. This can be useful if you want to create several documents in one run.

Because we’ll be using the extension method MyToString, we need to import its namespace using the Import directive.

## DoSomething()

Now let’s do something with our model.

The following table consists of 9 rows.

|  |  |  |
| --- | --- | --- |
| **Country** | **Population** | **Date proclaimed** |
| Egypt | 96 M | 18-6-1953 |
| Germany | 82 M | 3-10-1990 |
| Ireland | 6 M | 24-4-1916 |
| Israel | 8 M | 14-5-1948 |
| Poland | 38 M | 13-9-1989 |
| The Netherlands | 17 M | 26-7-1581 |
| United States | 325 M | 4-7-1776 |
| *Average* | *82* M | *10-7-1879* |

*Source: Wikipedia.org, 2017.*

It’s also possible to generate paragraphs instead of table rows, like this:

**Country**   
Name: Egypt  
Population: 96084 K  
Date proclaimed: 18-6-1953

**Country**   
Name: Germany  
Population: 82349 K  
Date proclaimed: 3-10-1990

**Country**   
Name: Ireland  
Population: 6378 K  
Date proclaimed: 24-4-1916

**Country**   
Name: Israel  
Population: 8782 K  
Date proclaimed: 14-5-1948

**Country**   
Name: Poland  
Population: 38634 K  
Date proclaimed: 13-9-1989

**Country**   
Name: The Netherlands  
Population: 17170 K  
Date proclaimed: 26-7-1581

**Country**   
Name: United States  
Population: 325365 K  
Date proclaimed: 4-7-1776

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