

# Mail Merge Demo

## Intro

Emulate a Word mail merge using WordTemplate. A document will be created with each recipient's letter on a new page. Take care of all of your mail merge production with one print job.

Letters will be created for a selection of customers in the database. This demo uses *Nested Repeat Blocks* that signal WordTemplate to only repeat specific sections of the document when appropriate. This way we can create complex documents with dynamically generated tables with only a single database query and one call to *SetRepeatBlock*.

Note that using nested repeat blocks is only supported by using docx files.

## Code

```

private string stateCode;

public void GenerateDocument()
{
    //Select the state for which we will print out the data
    this.stateCode = "MA";
    // Create WordTemplate
    WordTemplate wt = new WordTemplate();

    // Open the template document
    string templatePath = @"..\..\WordTemplateFiles\MailMergeTemplate.docx";
    wt.Open(templatePath);

    // Get the datatable for any state by parsing that state's specific csv
file
    DataTable RegionData =
GetCustomerData(@"..\..\WordData\MailMergeDemoData"+this.stateCode+".CSV");

    // Set the DataTable as the source for the mailmerge.
    wt.SetMailMerge(RegionData);
    wt.Process();

    // Save the document
    string docName = String.Format("MailMerge-{0}", this.stateCode);
    wt.Save(@"..\..\WordOutputFiles\"+ docName+ "_output"+" .docx");
}

/// <summary>
/// Parses the data from the csv file with the data for a specific state
/// Note: only the MA csvfile exists because this is for sample purposes
/// </summary>
/// <returns>DataTable of mailing data</returns>
private DataTable GetCustomerData(String csvFileName)
{
    DataTable dt;
    using (GenericParserAdapter parser = new
GenericParserAdapter(csvFileName))
    {
        parser.ColumnDelimiter = ',';
        parser.FirstRowHasHeader = true;

        dt = parser.GetDataTable();
    }
    return dt;
}
}

```

## Downloads

**Template:** MailMergeTemplate.docx

**Data:** MailMergeDemoDataMA.csv

**Output:** MailMerge-MA\_output.docx