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egonl  
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SharpDocx

# Summary

SharpDocx is a library to programmatically create Word documents. It’s inspired on Web technologies like ASP.NET. Developers familiar with classic ASP.NET should feel right at home.

With SharpDocx, the developer first creates a view. This is a Word document which also contains C# code. This is usually done in Microsoft Word.

Next, the developer programmatically creates new documents based on this view. The views can optionally be supplied with a user defined model. This is usually done in Visual Studio using C#.

Out of the box SharpDocx supports most standard scenario’s, like inserting text, tables and images. If something more specific is required, developers can extend views in order to implement those requirements.

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# The basics

At any point in the text you can insert C# statements. Like right here.

The result looks like this:



## Write method

If you want to display the value of i, you can use the Write method. Right now, i is 1.

There’s also a shorthand notation for the Write method: i is still 1.

You can insert line breaks by using ‘\n’:

This paragraph  
contains two  
line breaks.

## Conditional content

You can use an if statement to display conditional content.

This will be displayed.

In this case, any formatting will be lost because the code parser ignores any formatting.

If you want to conditionally display text with formatting, use two code blocks and place the text between curly brackets, like this.

This **will** *also* be displayed.

If you want, you can span multiple elements. E.g.

## Loops

If you want to add something in a loop, you should do so programatically. This example does loop, but doesn’t add anything to the document:

The value of i is **9**.

In the next loop we’ll call the AppendParagraph method, which *will* insert new paragraphs:

The value of i is **0**.

The value of i is **1**.

The value of i is **2**.

The value of i is **3**.

The value of i is **4**.

The value of i is **5**.

The value of i is **6**.

The value of i is **7**.

The value of i is **8**.

The value of i is **9**.

## Tables

Design your tables in Word, and create rows using the AppendRow method.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **i \* 1** | **i \* 2** | **i \* 3** | **i \* 4** | **i \* 5** | **i \* 6** | **i \* 7** | **i \* 8** | **i \* 9** | **i \* 10** |
| **1** | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **2** | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| **3** | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
| **4** | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
| **5** | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| **6** | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| **7** | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 |
| **8** | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 |
| **9** | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 |
| **10** | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

## Images

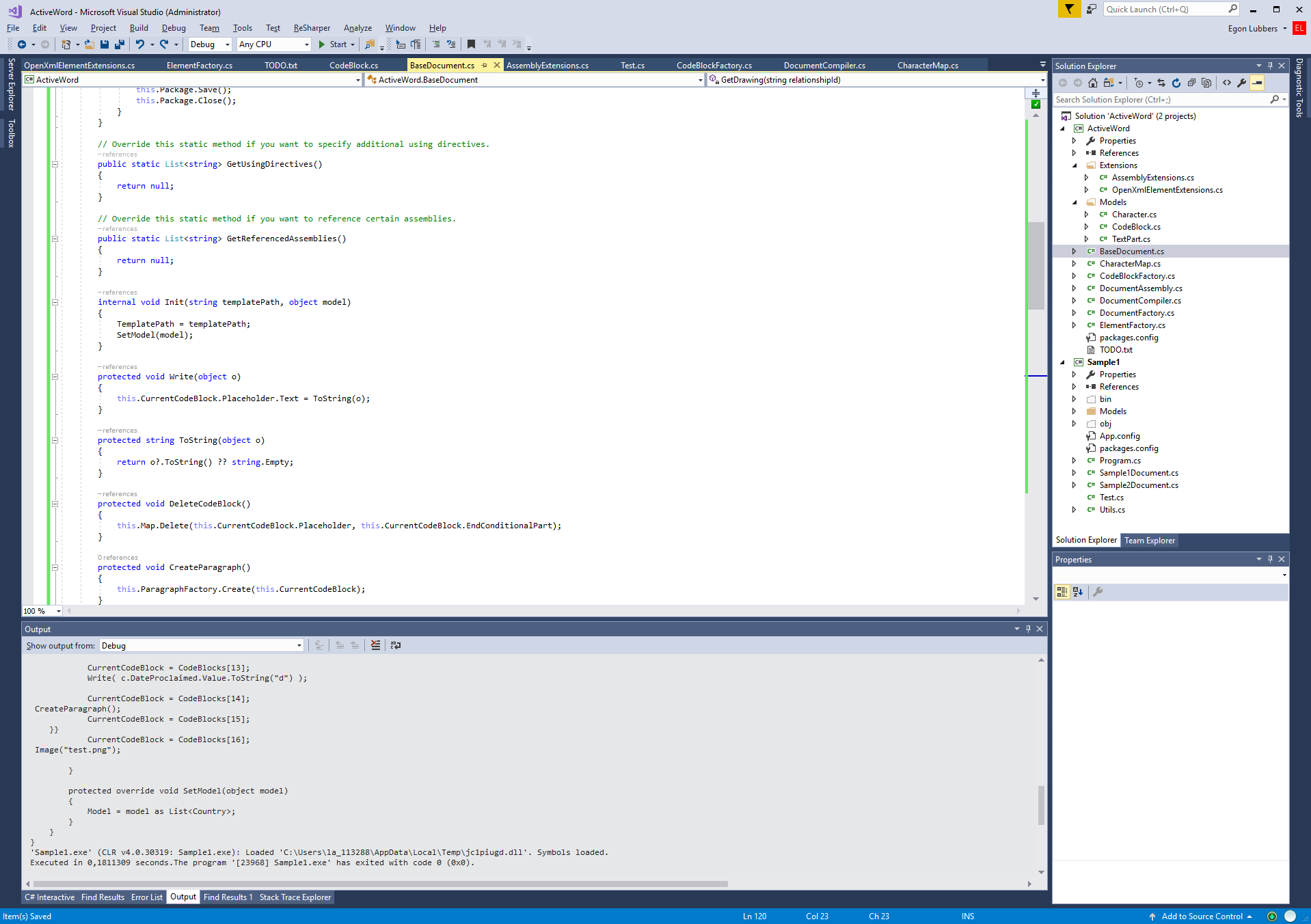
Insert images using the Image method.

​

If only a file name is specified, SharpDocx searches this file in a directory specified by the ImageDirectory property. Right now this property has been set to ‘C:\Projects\SharpDocx\Samples\SampleProjects\Tutorial\bin\Debug\..\..\..\..\Images’.

The Image method accepts a second optional parameter that specifies the relative size of the image. Here’s  at 15%.

Images that are too wide to be displayed at 100% are automatically scaled back. Here’s an example:



## Replacing text

If you want to replace text, you can use the Replace method.

This will replace *all* occurrences of the specified string.

Here’s the **replaced text**. And here’s some more replaced text.

## The Map

The Map maps OpenXmlElements to plain text and vica versa. It’s being used internally for finding the C# code in documents, among other things. At the moment Map.Text looks something like this:

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## Referencing assemblies and importing namespaces

If you want to use your own models in a view, use the Assembly and Import directives to get access to them.

You can add a reference to an assembly with the Assembly directive. Directives always start with < %@.

Import namespaces with the Import directive.

Now you can use types in System.Xml.Linq. Let’s read some news for nerds.

**People Still Aren't Buying Smartwatches -- and It's Only Going To Get Worse**An anonymous reader shares a report: Wearable technology still isn't catching up. Despite a year full of exciting new smartwatches, tech-enabled clothing or jewelry, and fitness activity trackers galo

**China Closes More Than 13,000 Websites in Past Three Years**China has closed more than 13,000 websites since the beginning of 2015 for breaking the law or other rules and the vast majority of people support government efforts to clean up cyberspace, state news

**UK Companies Facing Cyber Security Staff Shortage**Bruce66423 writes: According to a recent survey of recruitment agencies, 81% expect a rise in demand for digital security staff, but only 16% saw that the demand would be met." Resorting to 'neuro-div

**Estimates of Bitcoin's Soaring Energy Use Are Likely Overstating the Electric Power Required To Mine the Cryptocurrency**From a report: The computer process that generates each coin is said to be on pace to require more electricity than the United States consumes in a year. This bitcoin "mining" allegedly consumes more

**Established Players in Tech Industry Are Displaced By New Technologies and Companies Often When They Are Operating At Their Peak**In a column, Steven Sinofsky, former President of the Windows Division at Microsoft, cites various examples from the past to suggest that it is often when incumbents in technology space have establish

**Russia's Putin Calls For Web Activities of Some Firms To Be Monitored**President Vladimir Putin said on Monday the Russian authorities should monitor the activity of "some companies" on social media during next year's presidential election and assess the extent of their

**The Majority of Americans Prefer To Be Greeted With 'Merry Christmas' Over 'Happy Holidays', a Poll Finds**"Merry Christmas" is the preferred greeting of a strong majority of Americans. A survey carried in conjunction by news outlet Axios and SurveyMonkey found that 65 percent of the participants wish to b

**How Many Books Will You Read in a Lifetime? Around 4600, If You Read Fast**I once sneered at lifetime reading plans. Two decades later, I'm more aware that reading time, like all time, is precious, writes journalist Nilanjana Roy. From her column on the Financial Times (migh

**UFO Existence 'Proven Beyond Reasonable Doubt', Says Former Head of Pentagon Alien Program**An anonymous reader shares a Newsweek report: The existence of UFOs had been "proved beyond reasonable doubt," according the head of the secret Pentagon program that analyzed the mysterious aircrafts.

**Man Threatened Company With Cyber Attack To Fire Employee and Hire Him Instead**An anonymous reader writes: A North Carolina judge sentenced a Washington man this week to 37 months in prison for threatening a company with attacks unless they fire one of their employees and hire h

**Slashdot Asks: What Are Some Books, Movies, Documentaries and Shows From This Year That You Liked and Recommend To Others?**As we prepare to end the year, several readers have suggested we asked one another about the things we liked. We encourage everyone to participate.<p><div class="share\_submission" style="position:rela

**Opera 50 Web Browser Will Offer Anti-Bitcoin Cryptocurrency Mining Feature**BrianFagioli writes: The upcoming version 50 of the Opera web browser will offer an integrated anti-Bitcoin mining feature. Besides Bitcoin, it will also block the mining of other cryptocurrencies suc

**Should Regulators Force Facebook To Ship a 'Start Over' Button For Users?**Hunter Walk: I don't really understand most of the proposals to "regulate" Facebook. There are some concrete proposals on the table regarding political ads and updating antitrust for the data age, but

**NASA Begins Planning For An Interstellar Mission In 2069**Long-time Slashdot reader cold fjord writes:  
During the 2017 Geophysical Union Conference, scientists from NASA's Jet Propulsion Laboratory revealed that they are planning an interstellar exploration

**Tesla's Newest Holiday Update Includes an Easter Egg: 'Santa Mode'**An anonymous reader quotes Engadget:  
Dive into the Easter egg section on your EV and you'll discover a reindeer button that invokes a Santa Mode. To say it brings a Christmas vibe to your car would be  
During the 2017 Geophysical Union Conference, scientists from NASA's Jet Propulsion Laboratory revealed that they are planning an interstellar exploration

In a real world scenario you wouldn’t fetch data or have this much code in a view. But hey, this is just an example.