

The background is a dark blue-grey gradient. On the left, there are two overlapping geometric shapes: a blue parallelogram and a light green parallelogram. Below these, there is a circular inset showing a close-up of a circuit board. In the top right corner, there is a 3D perspective view of a circuit board's traces.

Understanding Python's Indentation Rules and Code Blocks

Python syntax

- No semicolons
- No curly braces
- Focus on neat and simple syntax
- New line characters to differentiate statements

What are indents?

The screenshot shows a Microsoft Word document with a blue ribbon at the top containing tabs for File, Home, Insert, Design, Layout, Review, View, and a search bar. The document content includes an evaluation warning and several paragraphs of text. Red arrows point to specific indent types: Left Indent (margin), Right Indent (margin), First Line Indent (first line of a paragraph), and Hanging Indent (all lines of a paragraph except the first).

File Home Insert Design Layout Review View Tell me what you want to do Share

Evaluation Warning: The document was created with Spire.Doc for .NET.

Left Indent

Spire.Doc for .NET is a professional Word .NET library specifically designed for developers to create, read, write, convert, compare and print Word documents on any .NET platform (Target .NET Framework, .NET Core, .NET Standard, .NET 5.0, .NET 6.0, Xamarin & Mono Android) with fast and high quality performance.

As an independent Word .NET API, Spire.Doc for .NET doesn't need Microsoft Word to be installed on neither the development nor the target systems. However, it can incorporate Microsoft Word document creation capabilities into any developers' .NET applications.

Right Indent

First Line Indent

Spire.Doc for .NET is a proven reliable MS Word API for .NET which enables to perform many Word document processing tasks. It supports C#, VB.NET, ASP.NET and ASP.NET MVC. Spire.Doc supports Word 97-2003 /2007/2010/2013/2016/2019 and it has the ability to convert them to commonly used file formats like XML, RTF, TXT, XPS, EPUB, EMF, HTML and vice versa. Furthermore, it supports to convert Word Doc/Docx to PDF using C#, Word to SVG, Word to PostScript, Word to PCL (Printer Command Language) in high quality.

Spire.Doc for .NET enables developers/programmers to build WinForms, Web Services, ASP.NET and other type for .NET applications from version 2.0 to 4.5, .NET 5.0 and .NET 6.0 on 32-bit or 64-bit system.From Spire.Doc v 6.7.4, Spire.Doc starts to support .NET Core, .NET standard, MonoAndroid and Xamarin.ios.

Hanging Indent

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Indents allow to detect code-blocks in Python

Difference in indents in C language and python is displayed here:-

```
if (true) {cout << 6; cout << 7;}  
  
if (true) {  
    cout << 6;  
}  
  
if (true)  
{  
    cout << 6;  
}
```

C-style

```
if True:  
    print(6)  
    print(7)  
  
if True: print(6)
```

Pythonic

No restriction on number of spaces

You can use as much space as you want for indentation.

It just has to be same in that level.

```
for x in sequence:
    # indent by four spaces = 1 level
    if condition:
        # Indent by eight spaces for this block
        print("a big indent here")
    else:
        # Indent by only two spaces for this block
        print("a smaller indent")
    print("outdent back to four spaces")
```

Empty code blocks?

```
def func():  
    ...# empty body results in error  
  
func()
```

```
def func():  
    ...pass # do nothing  
  
func()
```



Thank You

