



# SimpleDocTemplate

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The `SimpleDocTemplate` class in ReportLab's Platypus module is used to create PDF documents with a straightforward layout. It provides several parameters to customize the document's appearance and behavior. Here's a comprehensive list of the parameters you can use when initializing a `SimpleDocTemplate`:



## SimpleDocTemplate Parameters



### Document Settings

#### 01. filename

The name of the PDF file to be created.

#### 02. pagesize

Defines the size of the pages (letter, A4)

#### 03. pageTemplates

A list of `PageTemplate` instances to define complex page layouts.

#### 04. showBoundary

If set to a non-zero value, draws a boundary around the frame for debugging purposes.



## **Margins (in points; 1 inch = 72 points)**

### 05. leftMargin

Left margin of the page.

### 06. rightMargin

Right margin of the page.

### 07. topMargin

Top margin of the page.

### 08. bottomMargin

Bottom margin of the page.



## **Layout and Flow Control**

### 09. allowSplitting

If set to 1 (default), allows flowables (like paragraphs) to split across pages.



## **Metadata**

### 10. title

Title of the document.

### 11. author

Author of the document.

## 12. subject

Subject of the document.

## 13. keywords

Keywords associated with the document.

## 14. creator

The software that created the document.

## 15. producer

The software that produced the PDF.



## Security and Compression

## 16. invariant

If set to 1, produces PDFs that are byte-identical across runs.

## 17. pageCompression

If set to 1 (default), compresses pages in the PDF.

## 18. encrypt

An instance of `reportlab.lib.pdfencrypt.StandardEncryption` to encrypt the PDF.



## Additional Settings

## 19. cropMarks

If set to 1, adds crop marks to the pages.

## 20. rotation

Rotates the page content by the specified degrees.

### Format

SimpleDocTemplate(

```
filename,  
pagesize = letter,  
pageTemplates = None,  
showBoundary = 0,  
leftMargin = 72,  
rightMargin = 72,  
topMargin = 72,  
bottomMargin = 72,  
allowSplitting = 1,  
title = None,  
author = None,  
subject = None,  
keywords = None,  
creator = None,  
producer = None,  
invariant = 0,  
pageCompression = 1,  
encrypt = None,  
cropMarks = None,  
rotation = 0
```

)

## **Example: Creating a Styled PDF with SimpleDocTemplate**

```
from reportlab.lib.pagesizes import letter
from reportlab.platypus import SimpleDocTemplate, Paragraph, Spacer,
Table, TableStyle
from reportlab.lib.styles import getSampleStyleSheet, ParagraphStyle
from reportlab.lib import colors
from reportlab.lib.enums import TA_CENTER, TA_JUSTIFY
from reportlab.lib.units import inch

# Create a PDF document with 1-inch margins
doc = SimpleDocTemplate(
    "StyledDocument.pdf",
    pagesize=letter,
    leftMargin=1 * inch,
    rightMargin=1 * inch,
    topMargin=1 * inch,
    bottomMargin=1 * inch,
    title="Styled PDF Document",
    author="Shahzada Moon"
)

# Define styles
styles = getSampleStyleSheet()
styles.add(ParagraphStyle(name='CenterTitle', alignment=TA_CENTER,
    fontSize=16, leading=20, textColor=colors.darkblue))
styles.add(ParagraphStyle(name='Justify', alignment=TA_JUSTIFY))

# Build the story
story = []

# Add a title
story.append(Paragraph("ReportLab Styled PDF Example",
    styles['CenterTitle']))
story.append(Spacer(1, 12))
```

```

# Add a paragraph
text = """Hello, it's me 'Shahzada Moon'! This is a multiline paragraph
that will automatically wrap to the next line when it reaches the end of
the page. This ensures that all text is visible and properly formatted."""
story.append(Paragraph(text, styles['Justify']))
story.append(Spacer(1, 12))

# Add a table
data = [
    ['Name', 'Age', 'Country'],
    ['Alice', '28', 'USA'],
    ['Bob', '32', 'Canada'],
    ['Charlie', '24', 'UK']
]
table = Table(data, colWidths=[2 * inch] * 3)
table.setStyle(TableStyle([
    ('BACKGROUND', (0, 0), (-1, 0), colors.lightblue),
    ('TEXTCOLOR', (0, 0), (-1, 0), colors.whitesmoke),
    ('ALIGN', (0, 0), (-1, -1), 'CENTER'),
    ('FONTNAME', (0, 0), (-1, 0), 'Helvetica-Bold'),
    ('BOTTOMPADDING', (0, 0), (-1, 0), 12),
    ('BACKGROUND', (0, 1), (-1, -1), colors.beige),
    ('GRID', (0, 0), (-1, -1), 1, colors.black),
]))
story.append(table)

# Build the PDF
doc.build(story)

```

```

*****

Complete

*****

```