

Python-docx Table Formatting Cheatsheet (with Code Snippets)

Feature	Description	Code Snippet
Background color	Apply shading to a table cell.	<pre>from docx.oxml import OxmlElement from docx.oxml.ns import qn shading_elm = OxmlElement("w:shd") shading_elm.set(qn("w:fill"), "FFFF00") # Yellow cell._element.get_or_add_tcPr().append(shading_elm)</pre>
Text formatting	Bold, italic, font size inside cell.	<pre>run = cell.paragraphs[0].add_run("Important") run.bold = True run.font.size = Pt(12)</pre>
Borders	Add border lines around a cell.	<pre>from docx.oxml import OxmlElement tc_pr = cell._element.get_or_add_tcPr() tc_borders = OxmlElement('w:tcBorders') for border_name in ('top', 'left', 'bottom', 'right'): border_el = OxmlElement(f'w:{border_name}') border_el.set('w:val', 'single') border_el.set('w:sz', '12') border_el.set('w:color', '000000') tc_borders.append(border_el) tc_pr.append(tc_borders)</pre>
Alignment	Center or right-align text in a cell.	<pre>from docx.enum.text import WD_PARAGRAPH_ALIGNMENT cell.paragraphs[0].alignment = WD_PARAGRAPH_ALIGNMENT.CENTER</pre>
Fixed cell width	Lock cell width to a fixed size.	<pre>cell.width = Inches(1.5)</pre>
Text wrapping	Prevent or allow wrapping inside a cell.	<pre>tc_pr = cell._element.get_or_add_tcPr() no_wrap = OxmlElement('w:noWrap') tc_pr.append(no_wrap) # Disable wrapping</pre>
Vertical alignment	Align text vertically (top, center, bottom).	<pre>from docx.enum.table import WD_ALIGN_VERTICAL cell.vertical_alignment = WD_ALIGN_VERTICAL.CENTER</pre>