

Projektinitiative

***Ein Web- und Cloudbasiertes Multiple-Kernel
Eco-System für die automatisierte Erstellung
von analytischen Berichten***



BERLIN

2023



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Bericht Block №1

Text Block №1

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Document objects

The main Document and related objects.

constructor

`docx.Document(docx=None)`

Tabelle №1

Altersverteilung für ausgewählte Länder nach WHO: Albania,Algeria,American Samoa,Andorra,Angola,Anguilla,Antigua and Barbuda,Argentina,Armenia

	Gesamt Population	Altersgruppen				
		0-14	15-24	25-54	55-64	65+
Albania	32.9	18.05	17.47	41.06	11.54	11.89
Algeria	28.1	29.31	15.3	42.93	6.81	5.65
American Samoa	25.5	30.28	18.79	36.38	8.58	5.97
Andorra	44.3	14.4	9.64	46.18	14.16	15.61
Angola	15.9	48.12	18.25	28.03	3.26	2.34
Anguilla	34.8	22.21	14.08	43.82	11.06	8.84
Antigua and Barbuda	31.9	23.09	16.83	42.19	9.83	8.06
Argentina	31.7	24.59	15.28	39.38	9.13	11.62
Armenia	35.1	18.94	12.89	43.43	13.41	11.33
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objects

`class docx.document.Document[source]`

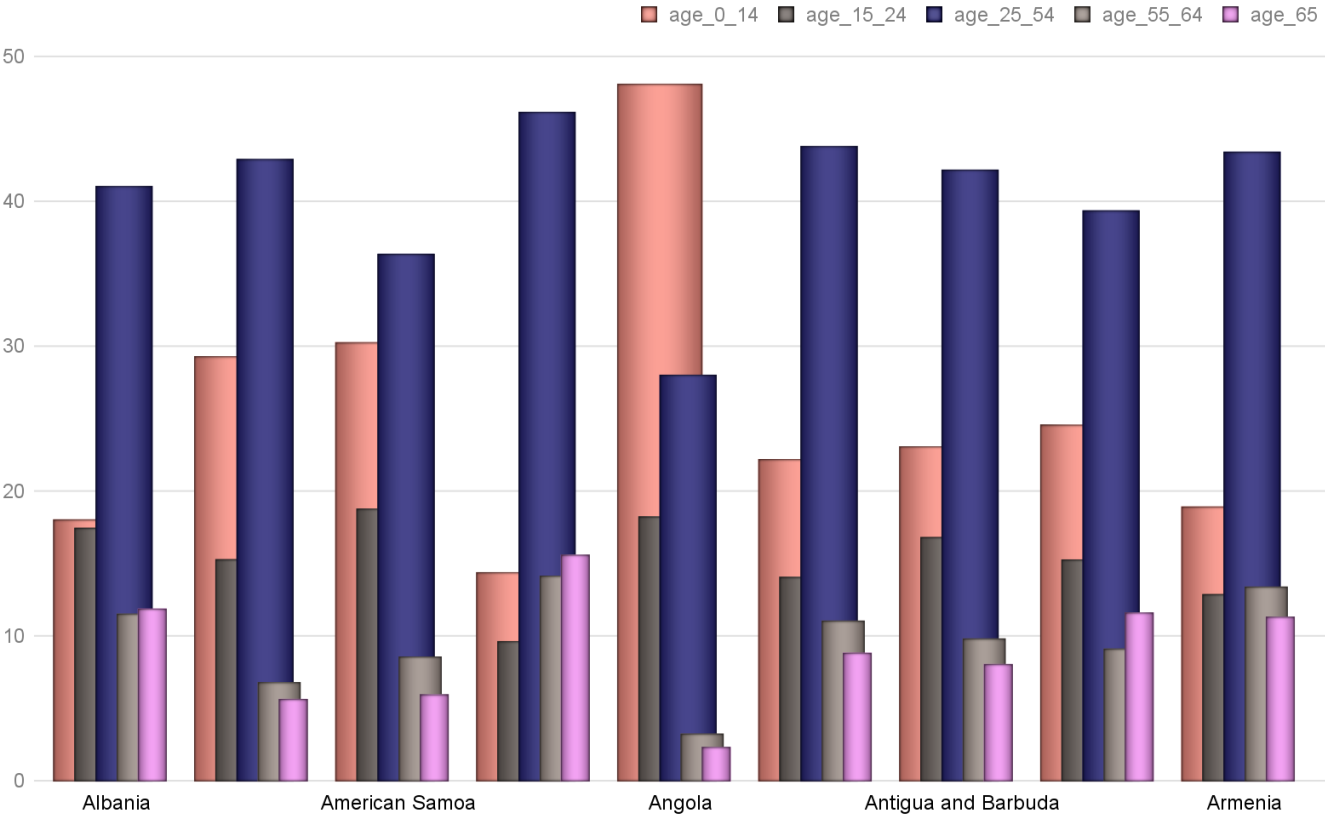
WordprocessingML (WML) document.

Not intended to be constructed directly. Use `docx.Document()` to open or create a document.



Grafik №1

Altersverteilung für ausgewählte Länder nach WHO: Albania,Algeria,American Samoa,Andorra,Angola,Anguilla,Antigua and Barbuda,Argentina,Armenia



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Return a heading paragraph newly added to the end of the document.

The heading paragraph will contain text and have its paragraph style determined by level. If level is 0, the style is set to Title. If level is 1 (or omitted), Heading 1 is used. Otherwise the style is set to Heading {level}. Raises ValueError if level is outside the range 0-9.

add_page_break()

Return newly object containing only a page break.



Bericht Block №2

Text Block №2

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

Return a paragraph newly added to the end of the document, populated with text and having paragraph style style. text can contain tab (\t) characters, which are converted to the appropriate XML form for a tab. text can also include newline (\n) or carriage return (\r) characters, each of which is converted to a line break.


`add_picture(image_path_or_stream, width=None, height=None)`

Return a new picture shape added in its own paragraph at the end of the document. The picture contains the image at image_path_or_stream, scaled based on width and height. If neither width nor height is specified, the picture appears at its native size. If only one is specified, it is used to compute a scaling factor that is then applied to the unspecified dimension, preserving the aspect ratio of the image. The native size of the picture is calculated using the dots-per-inch (dpi) value specified in the image file, defaulting to 72 dpi if no value is specified, as is often the case.

`add_section(start_type=2)`

Tabelle №2

Altersverteilung für ausgewählte Länder nach WHO: Aruba,Australia,Austria,Azerbaijan,Bahamas, The,Bahrain,Bangladesh,Barbados,Belarus,Belgium

	Gesamt Population	Altersgruppen				
	Median	0-14	15-24	25-54	55-64	65+
Aruba	39.3	17.64	12.78	41.72	14.28	13.59
Australia	38.7	17.8	12.79	41.45	11.83	16.14
Austria	44.0	14.01	11.07	42.42	13.23	19.26
Azerbaijan	31.3	22.95	14.84	45.39	10.17	6.64
Bahamas, The	32.0	22.55	16.4	44.14	9.16	7.75
Bahrain	32.3	19.08	15.65	56.04	6.28	2.95
Bangladesh	26.7	27.76	19.36	39.73	6.93	6.23
Barbados	38.6	17.97	12.74	44.06	13.43	11.81
Belarus	40.0	15.78	10.29	44.76	14.21	14.95
Belgium	41.4	17.16	11.34	40.05	12.86	18.58
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`add_table(rows, cols, style=None)`

Add a table having row and column counts of rows and cols respectively and table style of style. style may be a paragraph style object or a paragraph style name. If style is None, the table inherits the default table style of the document.

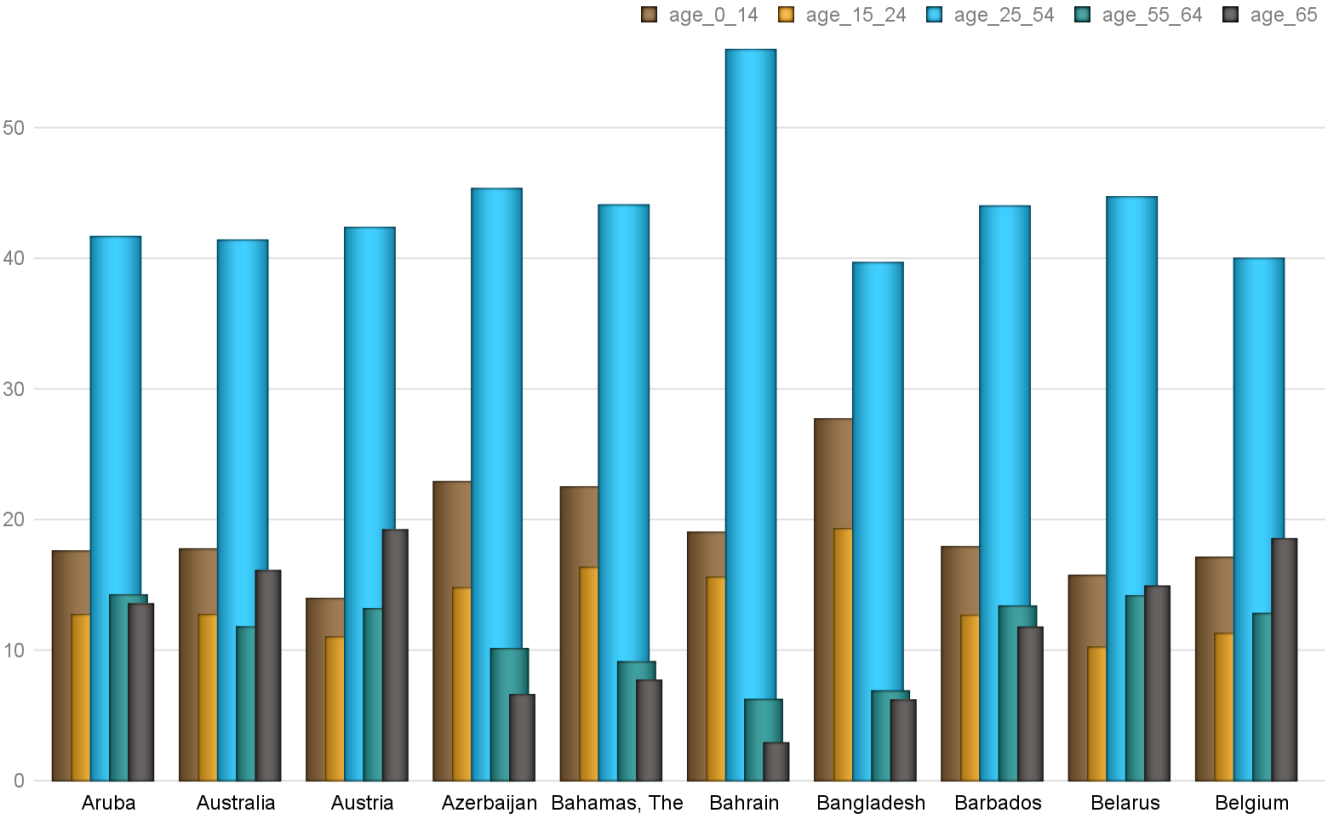
`core_properties`

A CoreProperties object providing read/write access to the core properties of this document.



Grafik №2

Altersverteilung für ausgewählte Länder nach WHO: Aruba,Australia,Austria,Azerbaijan,Bahamas, The,Bahrain,Bangladesh,Barbados,Belarus,Belgium



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An `InlineShapes` object providing access to the inline shapes in this document. An inline shape is a graphical object, such as a picture, contained in a run of text and behaving like a character glyph, being flowed like other text in a paragraph.

paragraphs

A list of instances corresponding to the paragraphs in the document, in document order. Note that paragraphs within revision marks such as `<w:ins>` or `<w:del>` do not appear in this list.

part



Bericht Block №3

Text Block №3

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`save(path_or_stream)`

Save this document to `path_or_stream`, which can be either a path to a filesystem location (a string) or a file-like object.

`sections`

object providing access to each section in this document.

Tabelle №3

Altersverteilung für ausgewählte Länder nach WHO: Belize,Benin,Bermuda,Bhutan,Bolivia,Bosnia and Herzegovina,Botswana,Brazil,British Virgin Islands,Brunei

	Gesamt Population	Altersgruppen				
		0-14	15-24	25-54	55-64	65+
Belize	22.7	33.95	20.55	36.62	4.99	3.89
Benin	18.2	42.65	20.44	30.44	3.61	2.87
Bermuda	43.4	17.04	12.0	37.24	15.73	17.98
Bhutan	27.6	25.8	18.81	43.07	6.03	6.29
Bolivia	24.3	31.85	19.46	37.48	5.9	5.3
Bosnia and Herzegovin	42.1	13.29	11.58	45.88	14.83	14.43
Botswana	24.5	31.95	18.91	38.45	5.46	5.23
Brazil	32.0	22.33	16.36	43.86	9.12	8.33
British Virgin Island	36.5	16.7	13.37	49.37	11.6	8.97
Brunei	30.2	23.12	17.05	46.75	8.23	4.84
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A object providing access to the document-level settings for this document.

`styles`

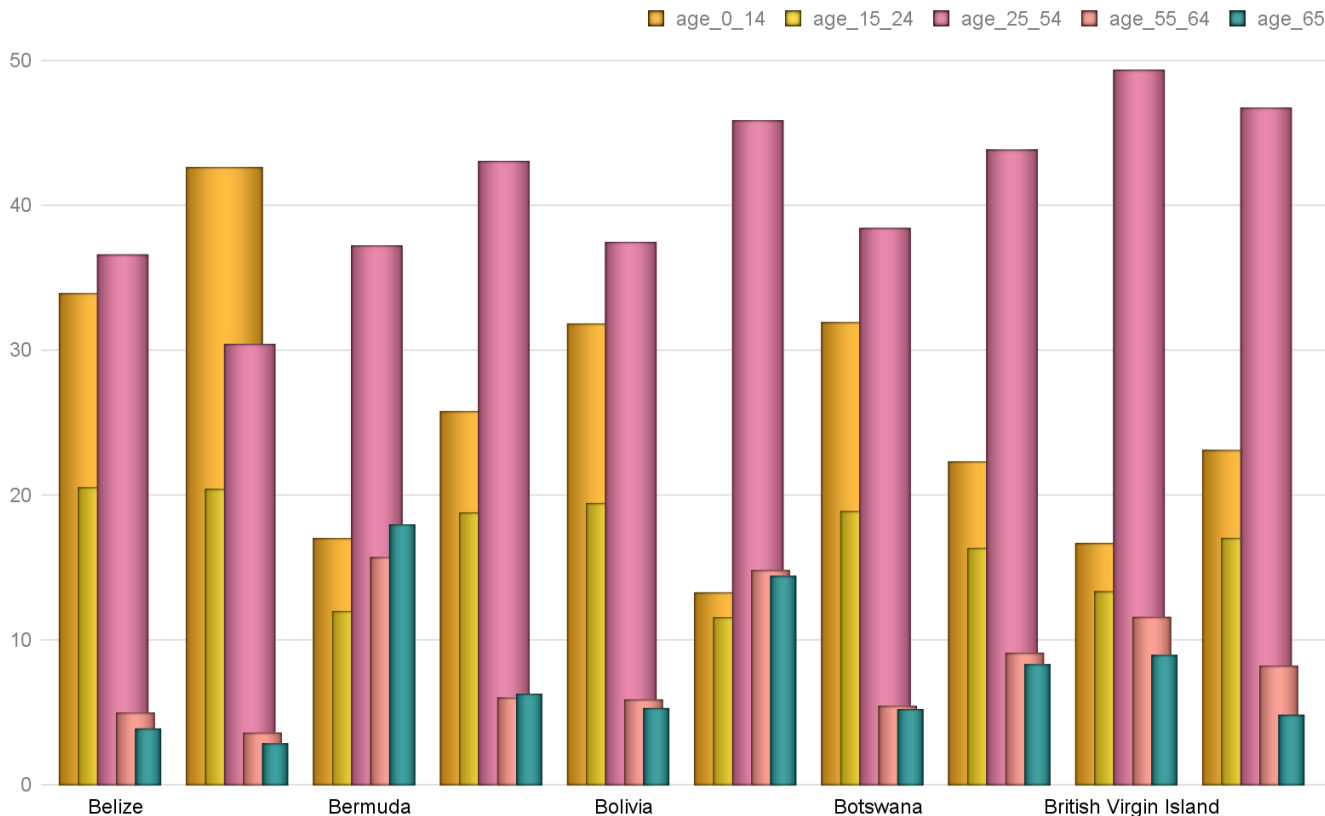
A object providing access to the styles in this document.

`tables`



Grafik №3

Altersverteilung für ausgewählte Länder nach WHO: Belize, Benin, Bermuda, Bhutan, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, British Virgin Islands, Brunei



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objects

Each Document object provides access to its CoreProperties object via its core_properties attribute. A CoreProperties object provides read/write access to the so-called core properties for the document. The core properties are author, category, comments, content_status, created, identifier, keywords, language, last_modified_by, last_printed, modified, revision, subject, title, and version.

Each property is one of three types, str, datetime.datetime, or . String properties are limited in length to 255 characters and return an empty string (') if not set. Date properties are assigned and returned as datetime.datetime objects without timezone, i.e. in UTC. Any timezone conversions are the responsibility of the client. Date properties return None if not set.

python-docx does not automatically set any of the document core properties other than to add a core properties part to a presentation that doesn't have one (very uncommon). If python-docx adds a core properties part, it contains default values for the title, last_modified_by, revision, and modified properties. Client code should update properties like revision and last_modified_by if that behavior is desired.



Bericht Block №4

Text Block №4

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author


string – An entity primarily responsible for making the content of the resource.

category

string – A categorization of the content of this package. Example values might include: Resume, Letter, Financial Forecast, Proposal, or Technical Presentation.

Tabelle №4

Altersverteilung für ausgewählte Länder nach WHO: Bulgaria,Burkina Faso,Burma,Burundi,Cabo Verde,Cambodia,Cameroon,Canada,Cayman Islands,Central African Republic

	Gesamt Population	Altersgruppen				
	Median	0-14	15-24	25-54	55-64	65+
Bulgaria	42.7	14.58	9.58	43.21	13.35	19.28
Burkina Faso	17.3	44.88	20.07	29.42	3.2	2.43
Burma	28.2	26.85	17.75	42.36	7.52	5.53
Burundi	17.0	45.57	19.15	28.74	3.92	2.63
Cabo Verde	25.4	29.13	20.11	39.64	5.94	5.19
Cambodia	25.3	31.01	18.36	40.68	5.69	4.25
Cameroon	18.5	42.39	19.56	30.87	3.98	3.2
Canada	42.2	15.44	11.85	39.99	14.1	18.63
Cayman Islands	40.0	18.0	12.41	42.52	14.47	12.59
Central African Repub	19.7	40.09	19.94	32.45	4.1	3.43
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string – An account of the content of the resource.

content_status

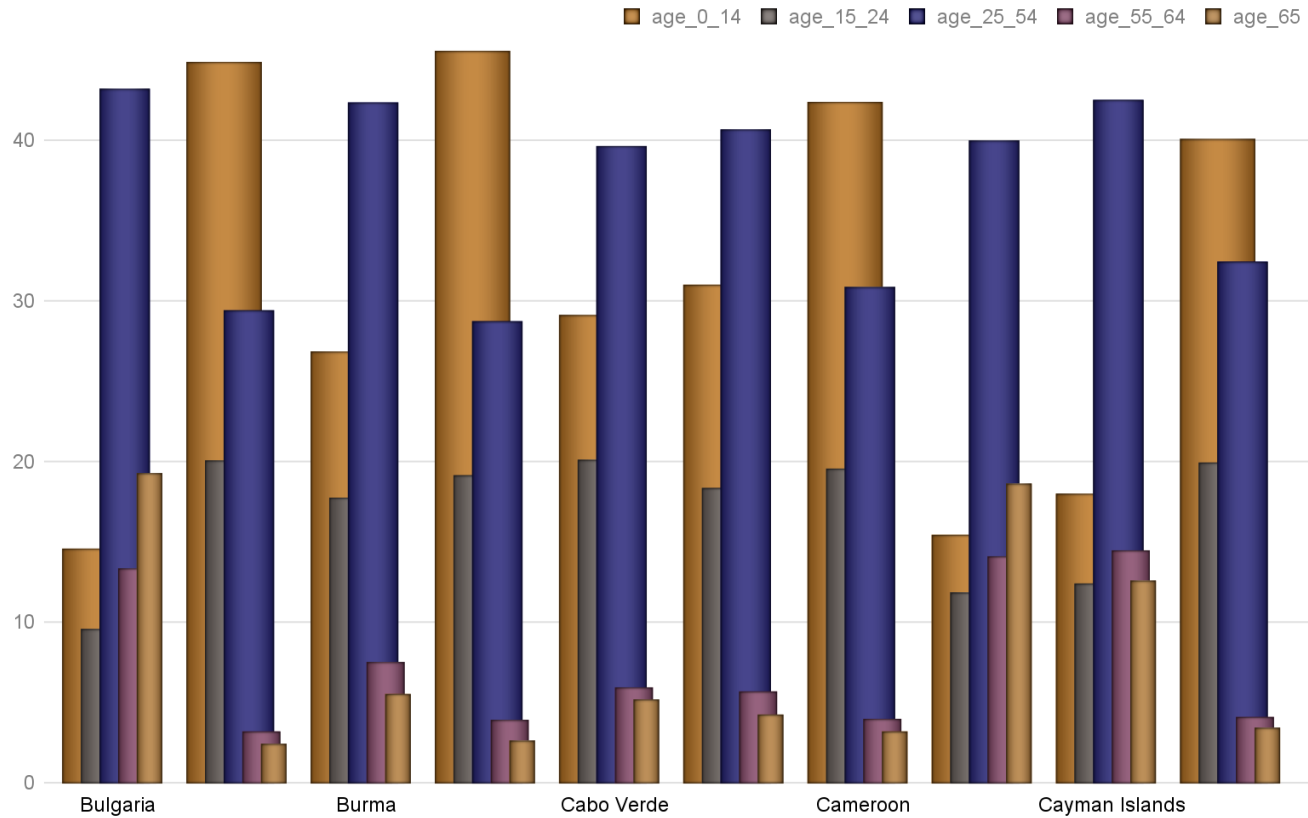
string – completion status of the document, e.g. 'draft'

created



Grafik №4

Altersverteilung für ausgewählte Länder nach WHO: Bulgaria,Burkina Faso,Burma,Burundi,Cabo Verde,Cambodia,Cameroon,Canada,Cayman Islands,Central African Republic



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identifizier

string – An unambiguous reference to the resource within a given context, e.g. ISBN.

keywords

string – descriptive words or short phrases likely to be used as search terms for this document



Bericht Block №5

Text Block №5

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string – language the document is written in

last_modified_by

string – name or other identifier (such as email address) of person who last modified the document

last_printed

Tabelle №5

Altersverteilung für ausgewählte Länder nach WHO: Chad,Chile,China,Colombia,Comoros,Congo, Democratic Republic of the,Congo, Republic of the,Cook Islands,Costa Rica,Cote d'Ivoire

	Gesamt Population	Altersgruppen				
		0-14	15-24	25-54	55-64	65+
Chad	17.8	43.02	21.46	28.62	3.88	3.02
Chile	34.4	20.11	15.04	43.08	10.96	10.81
China	37.4	17.15	12.78	48.51	10.75	10.81
Colombia	30.0	24.22	17.25	41.91	9.18	7.44
Comoros	19.9	39.35	19.53	32.91	4.27	3.94
Congo, Democratic Rep	18.6	41.74	21.46	30.53	3.6	2.67
Congo, Republic of th	19.7	41.67	17.1	33.89	4.29	3.06
Cook Islands	36.6	21.12	16.63	38.09	11.99	12.16
Costa Rica	31.3	22.61	16.35	44.03	9.2	7.82
Cote d'Ivoire	20.9	36.97	20.91	34.58	4.04	3.5
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modified

datetime – time the document was last modified

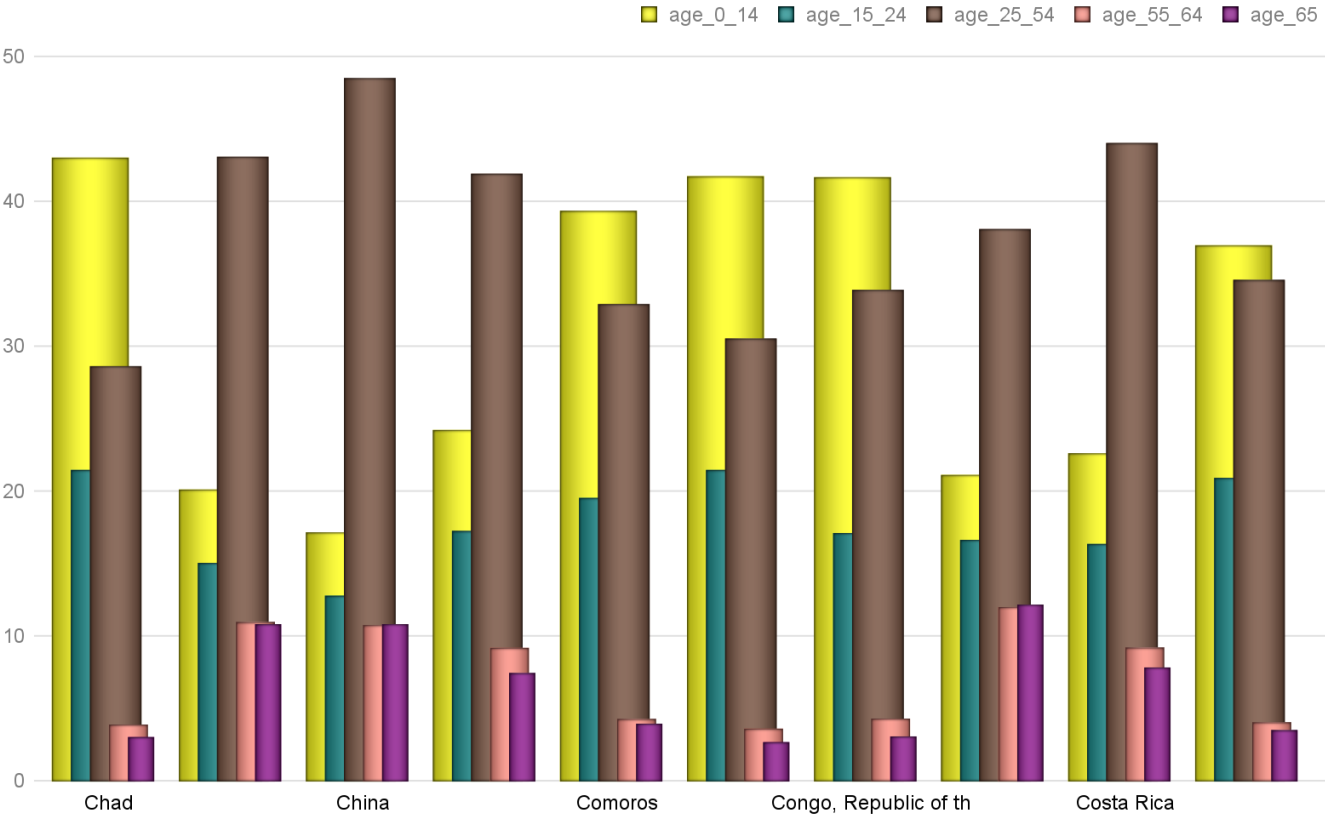
revision

int – number of this revision, incremented by Word each time the document is saved. Note however python-docx does not automatically increment the revision number when it saves a document.



Grafik №5

Altersverteilung für ausgewählte Länder nach WHO: Chad,Chile,China,Colombia,Comoros,Congo, Democratic Republic of the,Congo, Republic of the,Cook Islands,Costa Rica,Cote d'Ivoire



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string – The topic of the content of the resource.

title

string – The name given to the resource.

version



Bericht Block №6

Text Block №6

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!


Working with Text

To work effectively with text, it's important to first understand a little about block-level elements like paragraphs and inline-level objects like runs.

Block-level vs. inline text objects

Tabelle №6

Altersverteilung für ausgewählte Länder nach WHO: Croatia,Cuba,Curacao,Cyprus,Czechia,Denmark,Djibouti,Dominica,Dominican Republic,Ecuador

	Gesamt Population	Altersgruppen				
	Median	0-14	15-24	25-54	55-64	65+
Croatia	43.0	14.21	11.24	40.43	14.82	19.31
Cuba	41.5	16.57	12.22	44.43	11.84	14.94
Curacao	36.1	20.0	14.33	36.87	13.69	15.1
Cyprus	36.8	15.6	13.81	47.04	11.45	12.09
Czechia	42.1	15.16	9.59	43.84	12.44	18.98
Denmark	42.2	16.41	13.08	38.76	12.52	19.23
Djibouti	23.9	31.14	21.32	39.03	4.75	3.76
Dominica	33.5	21.72	15.14	42.2	9.81	11.14
Dominican Republic	28.1	26.63	18.18	39.66	7.9	7.63
Ecuador	27.7	27.08	18.35	39.59	7.53	7.45
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A block-level item flows the text it contains between its left and right edges, adding an additional line each time the text extends beyond its right boundary. For a paragraph, the boundaries are generally the page margins, but they can also be column boundaries if the page is laid out in columns, or cell boundaries if the paragraph occurs inside a table cell.

A table is also a block-level object.

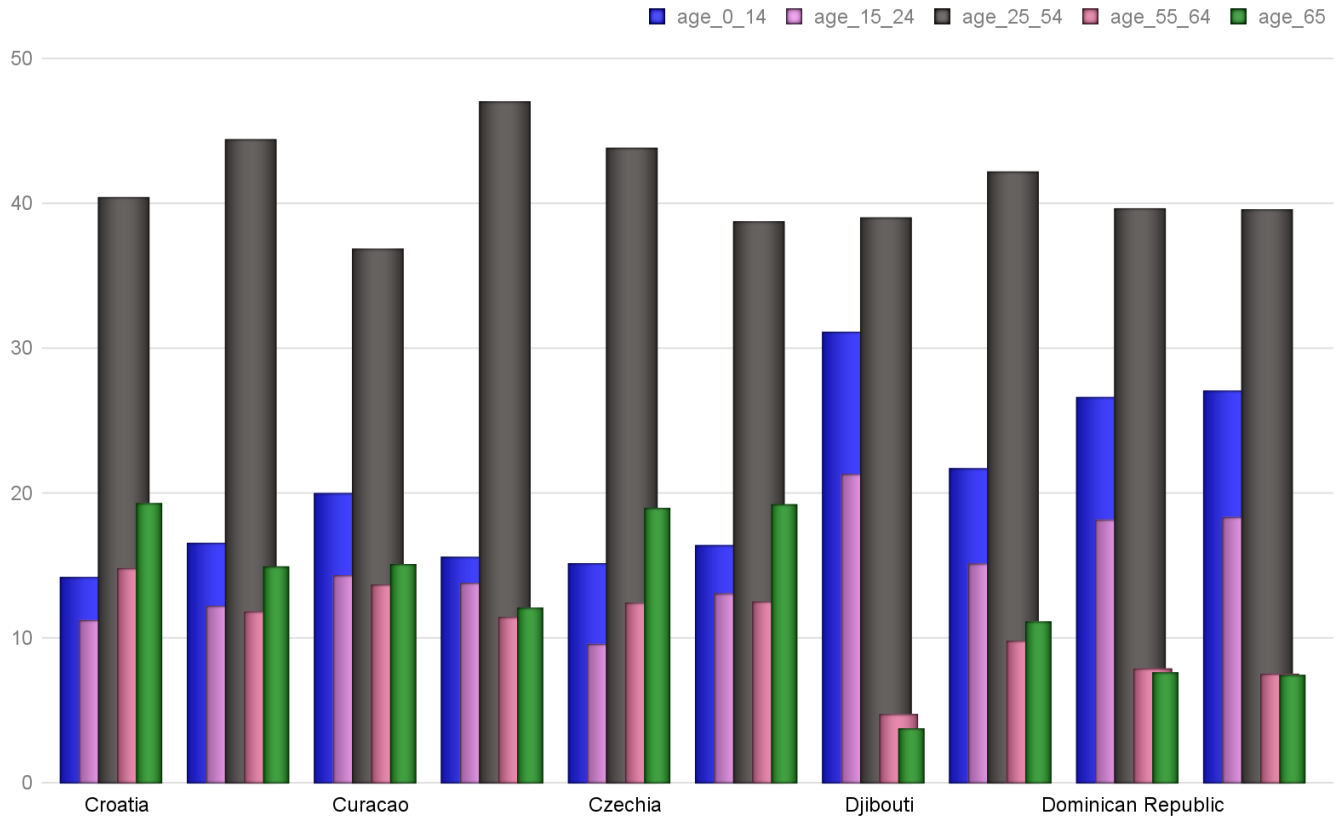
An inline object is a portion of the content that occurs inside a block-level item. An example would be a word that appears in bold or a sentence in all-caps. The most common inline object is a run. All content within a block container is inside of an inline object. Typically, a paragraph contains one or more runs, each of which contain some part of the paragraph's text.

The attributes of a block-level item specify its placement on the page, such items as indentation and space before and after a paragraph. The attributes of an inline item generally specify the font in which the content appears, things like typeface, font size, bold, and italic.



Grafik №6

Altersverteilung für ausgewählte Länder nach WHO: Croatia, Cuba, Curacao, Cyprus, Czechia, Denmark, Djibouti, Dominica, Dominican Republic, Ecuador



Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

A paragraph has a variety of properties that specify its placement within its container (typically a page) and the way it divides its content into separate lines.

In general, it's best to define a paragraph style collecting these attributes into a meaningful group and apply the appropriate style to each paragraph, rather than repeatedly apply those properties directly to each paragraph. This is analogous to how Cascading Style Sheets (CSS) work with HTML. All the paragraph properties described here can be set using a style as well as applied directly to a paragraph.

The formatting properties of a paragraph are accessed using the ParagraphFormat object available using the paragraph's paragraph_format property.

Horizontal alignment (justification)



Bericht Block №7

Text Block №7

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

```
>>> from docx.enum.text import WD_ALIGN_PARAGRAPH


>>> document = Document()

>>> paragraph = document.add_paragraph()

>>> paragraph_format = paragraph.paragraph_format
```

Tabelle №7

Altersverteilung für ausgewählte Länder nach WHO: Egypt, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Faroe Islands, Fiji, Finland, France

	Gesamt Population	Altersgruppen				
	Median	0-14	15-24	25-54	55-64	65+
Egypt	23.9	33.29	18.94	37.6	5.95	4.22
El Salvador	27.1	25.92	20.23	39.23	7.14	7.48
Equatorial Guinea	19.8	39.81	19.72	32.15	4.37	3.95
Eritrea	19.7	40.17	19.57	32.63	3.7	3.92
Estonia	42.7	16.23	8.99	41.37	13.57	19.85
Ethiopia	17.9	43.47	20.11	29.58	3.91	2.94
Faroe Islands	37.6	19.89	14.34	37.31	11.69	16.76
Fiji	28.9	27.7	16.13	41.08	8.53	6.55
Finland	42.5	16.43	11.4	37.78	13.29	21.1
France	41.4	18.53	11.79	37.78	12.42	19.48
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```
>>> paragraph_format.alignment

None # indicating alignment is inherited from the style hierarchy

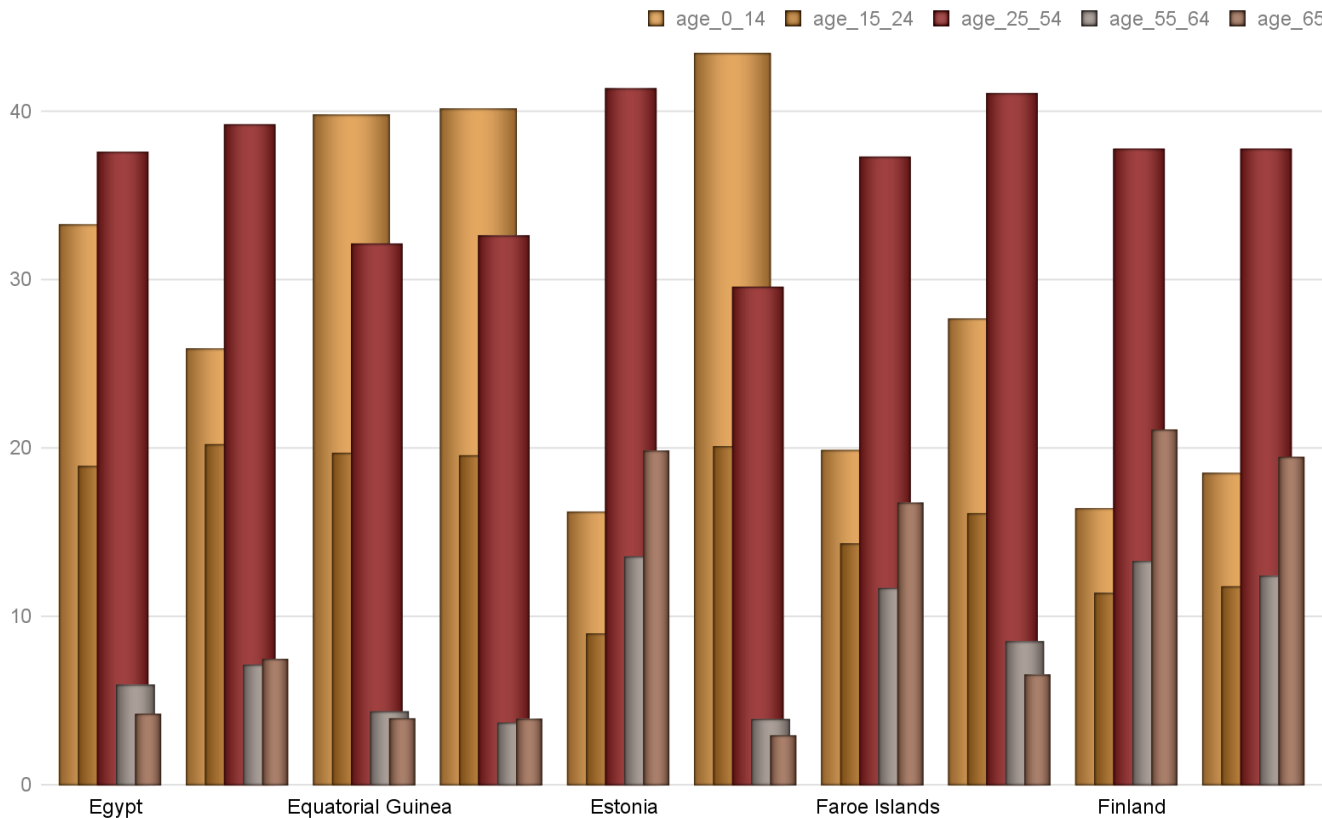
>>> paragraph_format.alignment = WD_ALIGN_PARAGRAPH.CENTER

>>> paragraph_format.alignment
```



Grafik №7

Altersverteilung für ausgewählte Länder nach WHO: Egypt, El Salvador, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Faroe Islands, Fiji, Finland, France



[Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!](#)

Indentation

Indentation is the horizontal space between a paragraph and edge of its container, typically the page margin. A paragraph can be indented separately on the left and right side. The first line can also have a different indentation than the rest of the paragraph. A first line indented further than the rest of the paragraph has first line indent. A first line indented less has a hanging indent.

Indentation is specified using a *Length* value, such as `, , or .` Negative values are valid and cause the paragraph to overlap the margin by the specified amount. A value of *None* indicates the indentation value is inherited from the style hierarchy. Assigning *None* to an indentation property removes any directly-applied indentation setting and restores inheritance from the style hierarchy:

```
>>> from docx.shared import Inches
```



Bericht Block №8

Text Block №8

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!


```
>>> paragraph_format = paragraph.paragraph_format
```

```
>>> paragraph_format.left_indent
```

None # indicating indentation is inherited from the style hierarchy

Tabelle №8

Altersverteilung für ausgewählte Länder nach WHO: French Polynesia, Gabon, Gambia, The, Gaza Strip, Georgia, Germany, Ghana, Gibraltar, Greece, Greenland

	Gesamt Population	Altersgruppen				
		0-14	15-24	25-54	55-64	65+
 French Polynesia	31.9	22.52	15.73	44.36	9.42	7.97
Gabon	18.6	41.9	20.46	29.52	4.36	3.76
Gambia, The	21.0	37.44	20.47	34.4	4.2	3.48
Gaza Strip	17.2	44.78	21.25	28.02	3.4	2.54
Georgia	38.1	18.08	11.94	40.96	13.01	16.01
Germany	47.1	12.82	10.09	40.45	14.58	22.06
Ghana	21.1	38.01	18.63	34.14	4.97	4.25
Gibraltar	34.7	20.22	14.34	39.67	9.68	16.09
Greece	44.5	13.83	9.67	42.45	13.13	20.91
Greenland	33.9	21.11	15.48	41.21	12.96	9.24
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```
>>> paragraph_format.left_indent
```

457200

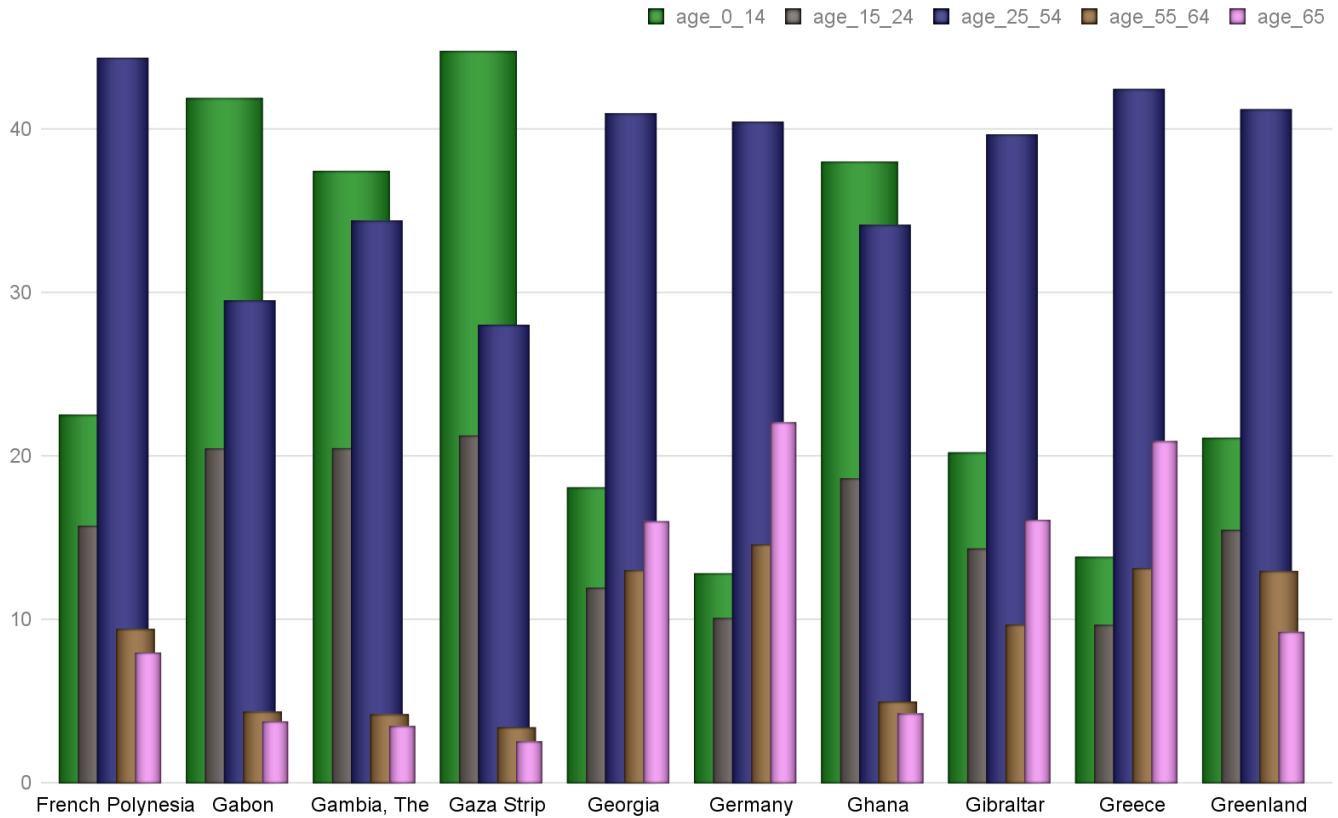
```
>>> paragraph_format.left_indent.inches
```

0.5



Grafik №8

Altersverteilung für ausgewählte Länder nach WHO: French Polynesia, Gabon, Gambia, The, Gaza Strip, Georgia, Germany, Ghana, Gibraltar, Greece, Greenland



[Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!](#)

```
>>> from docx.shared import Pt
```

```
>>> paragraph_format.right_indent
```

None

```
>>> paragraph_format.right_indent = Pt(24)
```



Bericht Block №9

Text Block №9

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

304800

```
>>> paragraph_format.right_indent.pt
```

24.0

First-line indent is specified using the `first_line_indent` property and is interpreted relative to the left indent. A negative value indicates a hanging indent:

Tabelle №9

Altersverteilung für ausgewählte Länder nach WHO: Grenada,Guam,Guatemala,Guernsey,Guinea,Guinea-Bissau,Guyana,Haiti,Honduras,Hong Kong

	Gesamt Population	Altersgruppen				
		0-14	15-24	25-54	55-64	65+
Grenada	31.5	23.99	15.03	40.38	10.52	10.08
Guam	29.0	27.54	16.63	37.44	9.8	8.59
Guatemala	22.1	34.5	21.58	34.12	5.26	4.54
Guernsey	43.8	14.51	11.13	41.67	13.11	19.58
Guinea	18.9	41.52	19.73	30.59	4.48	3.67
Guinea-Bissau	20.1	39.03	20.18	32.77	4.57	3.46
Guyana	26.2	26.22	21.56	38.1	8.03	6.08
Haiti	23.0	32.81	21.25	36.78	5.01	4.15
Honduras	23.0	32.95	21.0	36.63	5.13	4.29
Hong Kong	44.4	12.19	10.43	44.68	16.17	16.53
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None

```
>>> paragraph_format.first_line_indent = Inches(-0.25)
```

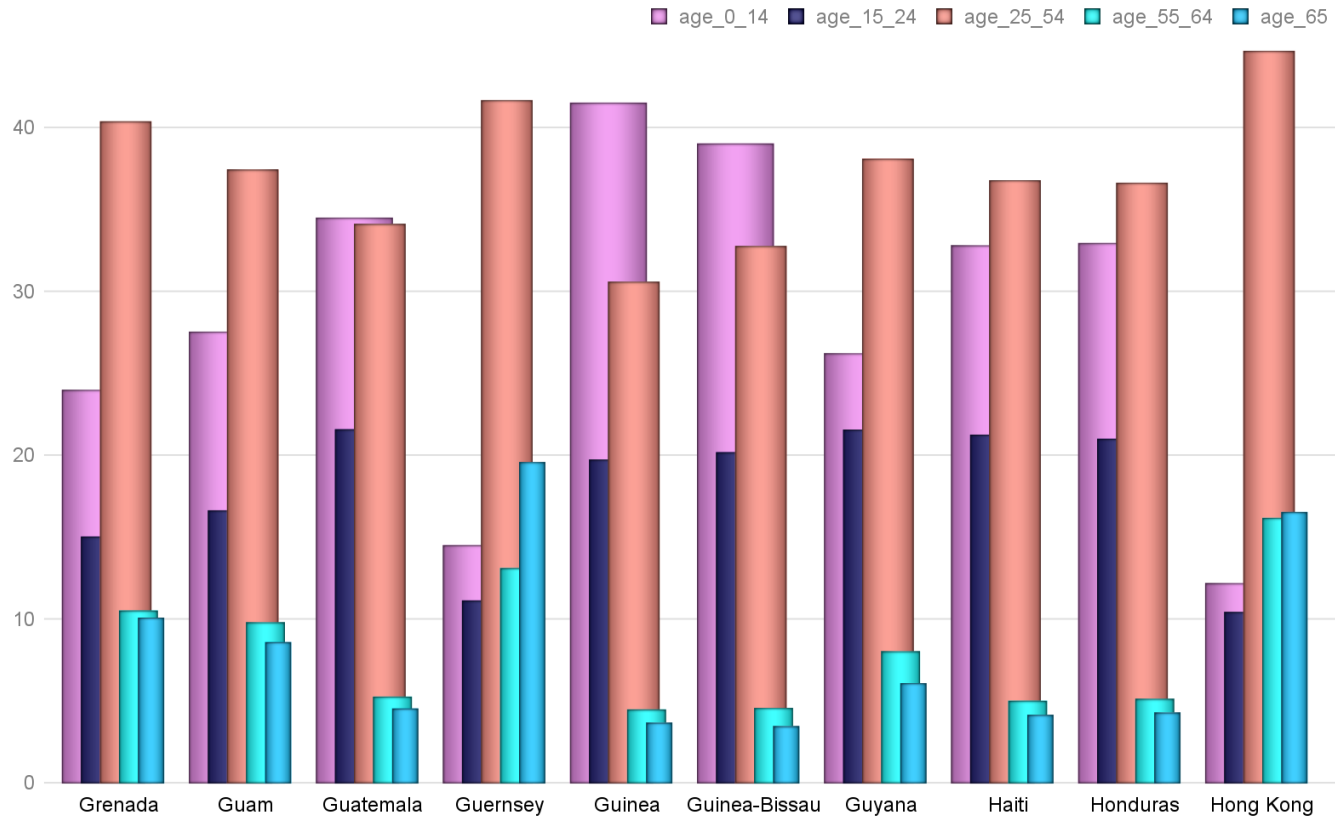
```
>>> paragraph_format.first_line_indent
```

-228600



Grafik №9

Altersverteilung für ausgewählte Länder nach WHO: Grenada,Guam,Guatemala,Guernsey,Guinea,Guinea-Bissau,Guyana,Haiti,Honduras,Hong Kong



Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

-0.25

Tab stops

A tab stop determines the rendering of a tab character in the text of a paragraph. In particular, it specifies the position where the text following the tab character will start, how it will be aligned to that position, and an optional leader character that will fill the horizontal space spanned by the tab.

The tab stops for a paragraph or style are contained in a TabStops object accessed using the tab_stops property on ParagraphFormat:



Bericht Block №10

Text Block №10

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

```
>>> tab_stops
```


```
<docx.text.tabstops.TabStops object at 0x106b802d8>
```

A new tab stop is added using the `add_tab_stop()` method:

```
>>> tab_stop = tab_stops.add_tab_stop(Inches(1.5))
```

Tabelle №10

Altersverteilung für ausgewählte Länder nach WHO: Hungary,Iceland,India,Indonesia,Iran,Iraq,Ireland,Isle of Man,Israel,Italy

	Gesamt Population	Altersgruppen				
	Median	0-14	15-24	25-54	55-64	65+
Hungary	42.3	14.71	10.96	41.88	13.4	19.05
Iceland	36.5	20.4	13.5	39.88	11.81	14.42
India	27.9	27.34	17.9	41.08	7.45	6.24
Indonesia	30.2	25.02	16.99	42.4	8.58	7.01
Iran	30.3	24.19	14.69	48.57	7.22	5.32
Iraq	20.0	39.46	19.25	33.84	3.99	3.46
Ireland	36.8	21.46	11.84	43.2	10.42	13.07
Isle of Man	44.2	16.28	11.43	38.79	13.13	20.36
Israel	29.9	27.51	15.53	37.17	8.46	11.33
Italy	45.5	13.65	9.66	42.16	12.99	21.53
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```
1371600
```

```
>>> tab_stop.position.inches
```

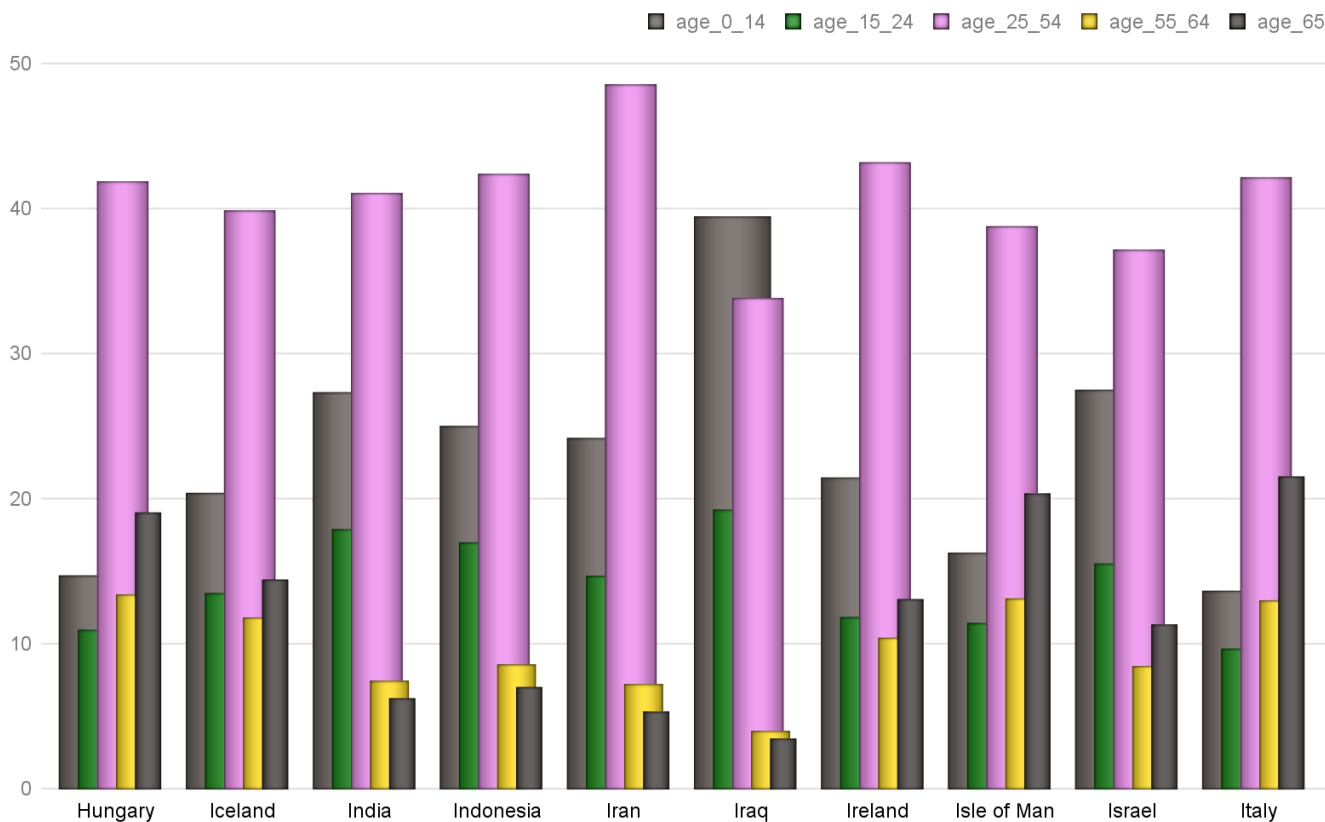
```
1.5
```

Alignment defaults to left, but may be specified by providing a member of the `enum` enumeration. The leader character defaults to spaces, but may be specified by providing a member of the `enum` enumeration:



Grafik №10

Altersverteilung für ausgewählte Länder nach WHO: Hungary,Iceland,India,Indonesia,Iran,Iraq,Ireland,Isle of Man,Israel,Italy



[Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!](#)

```
>>> tab_stop = tab_stops.add_tab_stop(Inches(1.5), WD_TAB_ALIGNMENT.RIGHT, WD_TAB_LEADER.DOTS)
```

```
>>> print(tab_stop.alignment)
```

RIGHT (2)

```
>>> print(tab_stop.leader)
```



Bericht Block №11

Text Block №11

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

Existing tab stops are accessed using sequence semantics on TabStops:


```
>>> tab_stops[0]
```

```
<docx.text.tabstops.TabStop object at 0x1105427e8>
```

More details are available in the TabStops and TabStop API documentation

Tabelle №11

Altersverteilung für ausgewählte Länder nach WHO: Jamaica,Japan,Jersey,Jordan,Kazakhstan,Kenya,Kiribati,Korea, North,Korea, South,Kosovo

	Gesamt Population		Altersgruppen				
	Median	0-14	15-24	25-54	55-64	65+	
 Jamaica	26.0	27.17	20.79	38.17	5.85	8.02	
Japan	47.3	12.84	9.64	37.5	12.15	27.87	
Jersey	38.0	16.23	13.91	40.99	12.53	16.34	
Jordan	22.5	34.68	20.07	37.36	4.44	3.45	
Kazakhstan	30.6	25.91	14.05	42.42	9.97	7.65	
Kenya	19.7	40.02	19.15	33.91	3.92	3.0	
Kiribati	24.6	29.68	21.07	38.98	6.04	4.23	
Korea, North	34.0	20.78	15.59	44.28	9.77	9.56	
Korea, South	41.8	13.21	12.66	45.52	14.49	14.12	
Kosovo	29.1	25.01	17.22	42.57	7.92	7.28	
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The `space_before` and `space_after` properties control the spacing between subsequent paragraphs, controlling the spacing before and after a paragraph, respectively. Inter-paragraph spacing is collapsed during page layout, meaning the spacing between two paragraphs is the maximum of the `space_after` for the first paragraph and the `space_before` of the second paragraph. Paragraph spacing is specified as a `Length` value, often using :

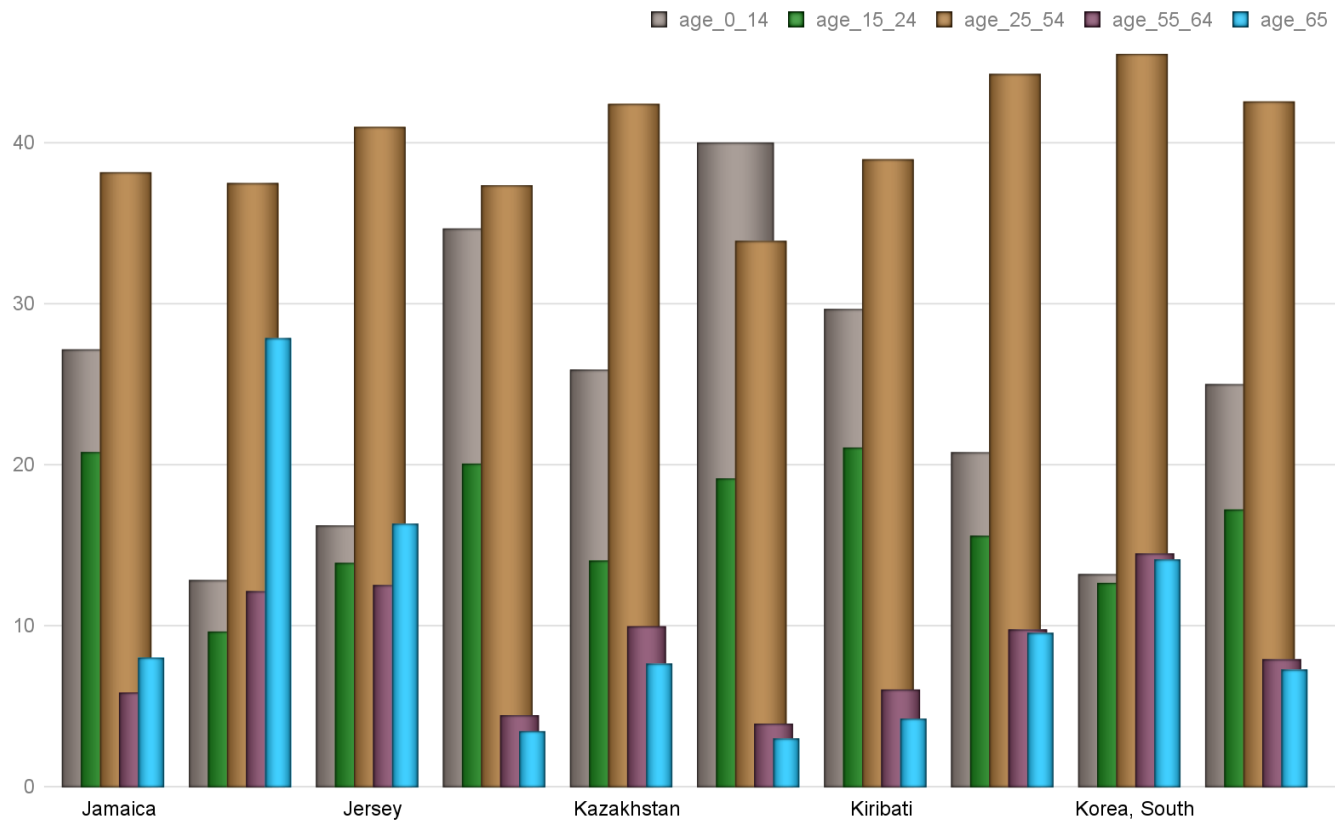
```
>>> paragraph_format.space_before, paragraph_format.space_after
```

```
(None, None) # inherited by default
```



Grafik №11

Altersverteilung für ausgewählte Länder nach WHO: Jamaica,Japan,Jersey,Jordan,Kazakhstan,Kenya,Kiribati,Korea, North,Korea, South,Kosovo



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```
>>> paragraph_format.space_before.pt
```

18.0

```
>>> paragraph_format.space_after = Pt(12)
```



Bericht Block №12

Text Block №12

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

12.0

Line spacing

Line spacing is the distance between subsequent baselines in the lines of a paragraph. Line spacing can be specified either as an absolute distance or relative to the line height (essentially the point size of the font used). A typical absolute measure would be 18 points. A typical relative measure would be double-spaced (2.0 line heights). The default line spacing is single-spaced (1.0 line heights).

Line spacing is controlled by the interaction of the `line_spacing` and `line_spacing_rule` properties. `line_spacing` is either a `Length` value, a (small-ish) float, or `None`. A `Length` value indicates an absolute distance. A float indicates a number of line heights. `None` indicates line spacing is inherited. `line_spacing_rule` is a member of the `line_spacing_rule` enumeration or `None`:

Tabelle №12

Altersverteilung für ausgewählte Länder nach WHO: Kuwait,Kyrgyzstan,Laos,Latvia,Lebanon,Lesotho,Liberia,Libya,Liechtenstein,Lithuania

	Gesamt Population		Altersgruppen			
	Median	0-14	15-24	25-54	55-64	65+
Kuwait	29.3	25.02	15.1	52.27	5.07	2.54
Kyrgyzstan	26.5	30.3	16.79	39.84	7.8	5.27
Laos	23.0	32.76	21.17	36.7	5.48	3.89
Latvia	43.6	15.15	9.45	41.75	14.1	19.55
Lebanon	30.5	24.09	16.42	44.79	7.91	6.78
Lesotho	24.2	32.12	19.43	37.94	5.01	5.5
Liberia	17.8	43.82	19.56	30.33	3.43	2.86
Libya	28.9	25.84	17.09	47.28	5.48	4.31
Liechtenstein	43.2	15.26	11.65	41.64	14.03	17.41
Lithuania	43.7	15.01	11.09	40.05	14.17	19.67
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```
>>> paragraph_format.line_spacing
```

None

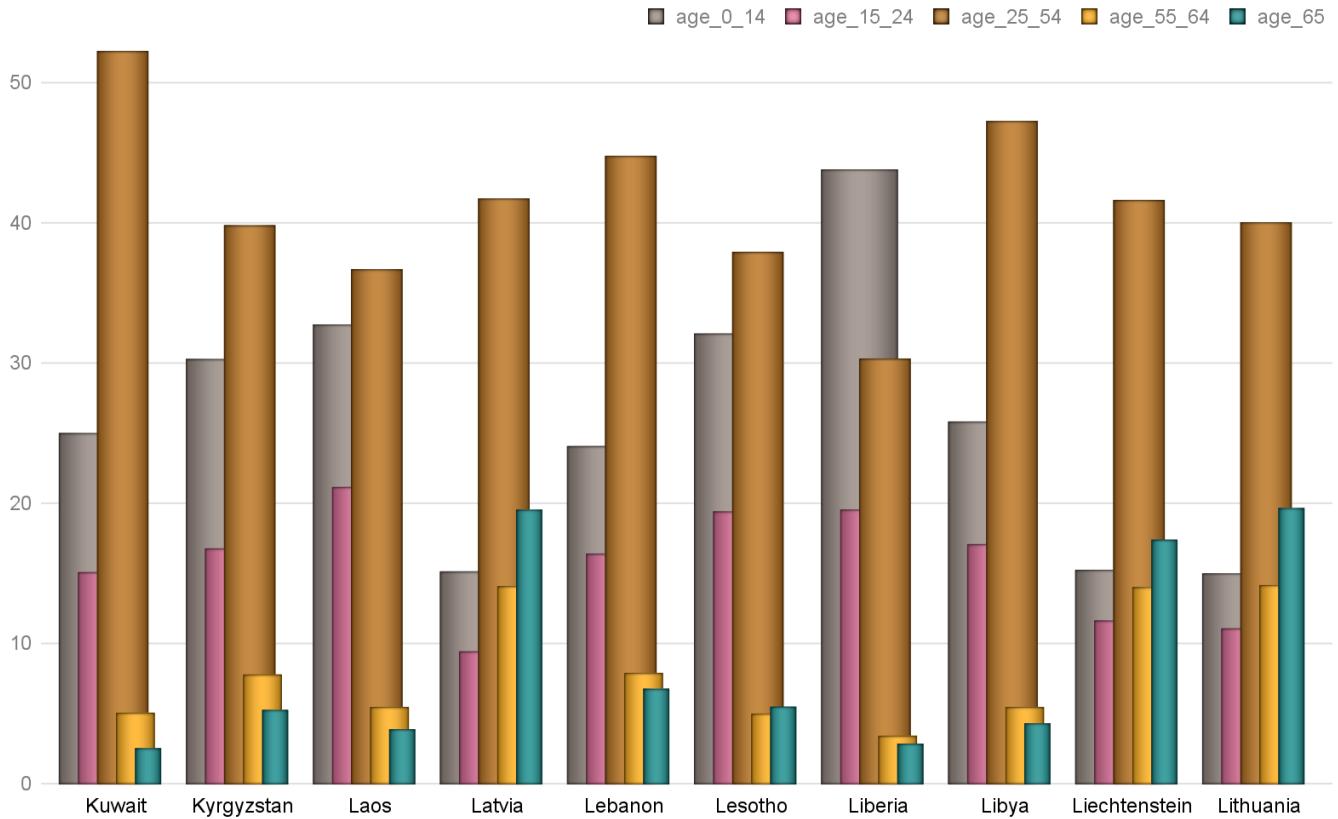
```
>>> paragraph_format.line_spacing_rule
```

None



Grafik №12

Altersverteilung für ausgewählte Länder nach WHO: Kuwait, Kyrgyzstan, Laos, Latvia, Lebanon, Lesotho, Liberia, Libya, Liechtenstein, Lithuania



[Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!](#)

```
>>> paragraph_format.line_spacing = Pt(18)
```

```
>>> isinstance(paragraph_format.line_spacing, Length)
```

```
True
```

```
>>> paragraph_format.line_spacing.pt
```



Bericht Block №13

Text Block №13

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

```
>>> paragraph_format.line_spacing_rule
```

EXACTLY (4)

```
>>> paragraph_format.line_spacing = 1.75
```

Tabelle №13

Altersverteilung für ausgewählte Länder nach WHO:

Luxembourg, Macau, Macedonia, Madagascar, Malawi, Malaysia, Maldives, Mali, Malta, Marshall Islands

	Gesamt Population	Altersgruppen				
		0-14	15-24	25-54	55-64	65+
Luxembourg	39.3	16.77	12.18	44.27	11.77	15.02
Macau	39.3	14.1	11.73	50.1	13.5	10.57
Macedonia	37.9	17.17	13.41	43.6	12.41	13.41
Madagascar	19.7	39.87	20.34	32.12	4.38	3.3
Malawi	16.5	46.34	20.55	27.41	3.01	2.69
Malaysia	28.5	27.83	16.81	41.0	8.27	6.1
Maldives	28.2	21.4	20.21	48.1	5.85	4.45
Mali	15.8	48.17	18.84	26.26	3.7	3.03
Malta	41.8	15.04	11.44	39.98	13.98	19.56
Marshall Islands	22.9	34.89	18.0	37.28	5.82	4.02
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1.75

```
>>> paragraph_format.line_spacing_rule
```

MULTIPLE (5)

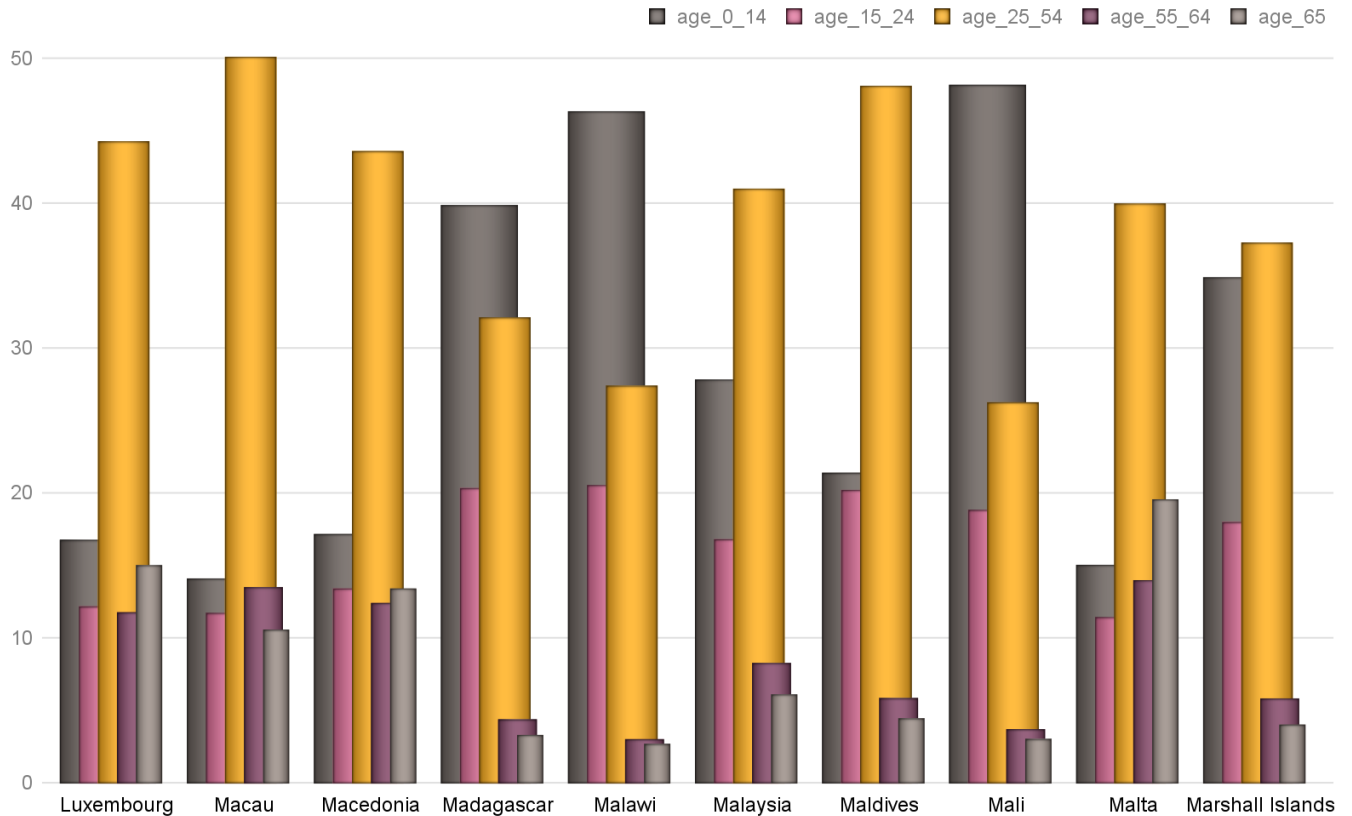
Pagination properties



Grafik №13

Altersverteilung für ausgewählte Länder nach WHO:

Luxembourg,Macau,Macedonia,Madagascar,Malawi,Malaysia,Maldives,Mali,Malta,Marshall Islands



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causes the entire paragraph to appear on the same page, issuing a page break before the paragraph if it would otherwise be broken across two pages.

keeps a paragraph on the same page as the subsequent paragraph. This can be used, for example, to keep a section heading on the same page as the first paragraph of the section.

causes a paragraph to be placed at the top of a new page. This could be used on a chapter heading to ensure chapters start on a new page.

breaks a page to avoid placing the first or last line of the paragraph on a separate page from the rest of the paragraph.



Bericht Block №14

Text Block №14

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

```
>>> paragraph_format.keep_together
```

None # all four inherit by default

```
>>> paragraph_format.keep_with_next = True
```

```
>>> paragraph_format.keep_with_next
```

Tabelle №14

Altersverteilung für ausgewählte Länder nach WHO: Mauritania,Mauritius,Mexico,Micronesia, Federated States of,Moldova,Monaco,Mongolia,Montenegro,Montserrat,Morocco

	Gesamt Population	Altersgruppen				
		0-14	15-24	25-54	55-64	65+
Mauritania	20.5	38.56	19.81	33.21	4.67	3.76
Mauritius	35.3	20.16	14.8	43.74	11.59	9.71
Mexico	28.3	26.93	17.54	40.81	7.64	7.09
Micronesia, Federated	25.1	30.3	19.59	39.19	6.99	3.93
Moldova	36.7	18.18	12.32	43.4	13.46	12.64
Monaco	53.1	10.68	9.27	32.91	14.94	32.21
Mongolia	28.3	26.95	16.09	45.6	7.07	4.29
Montenegro	40.7	15.1	9.58	46.59	13.58	15.14
Montserrat	33.2	16.5	21.52	47.43	8.45	6.1
Morocco	29.3	25.77	17.04	42.32	8.13	6.74
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```
>>> paragraph_format.page_break_before = False
```

```
>>> paragraph_format.page_break_before
```

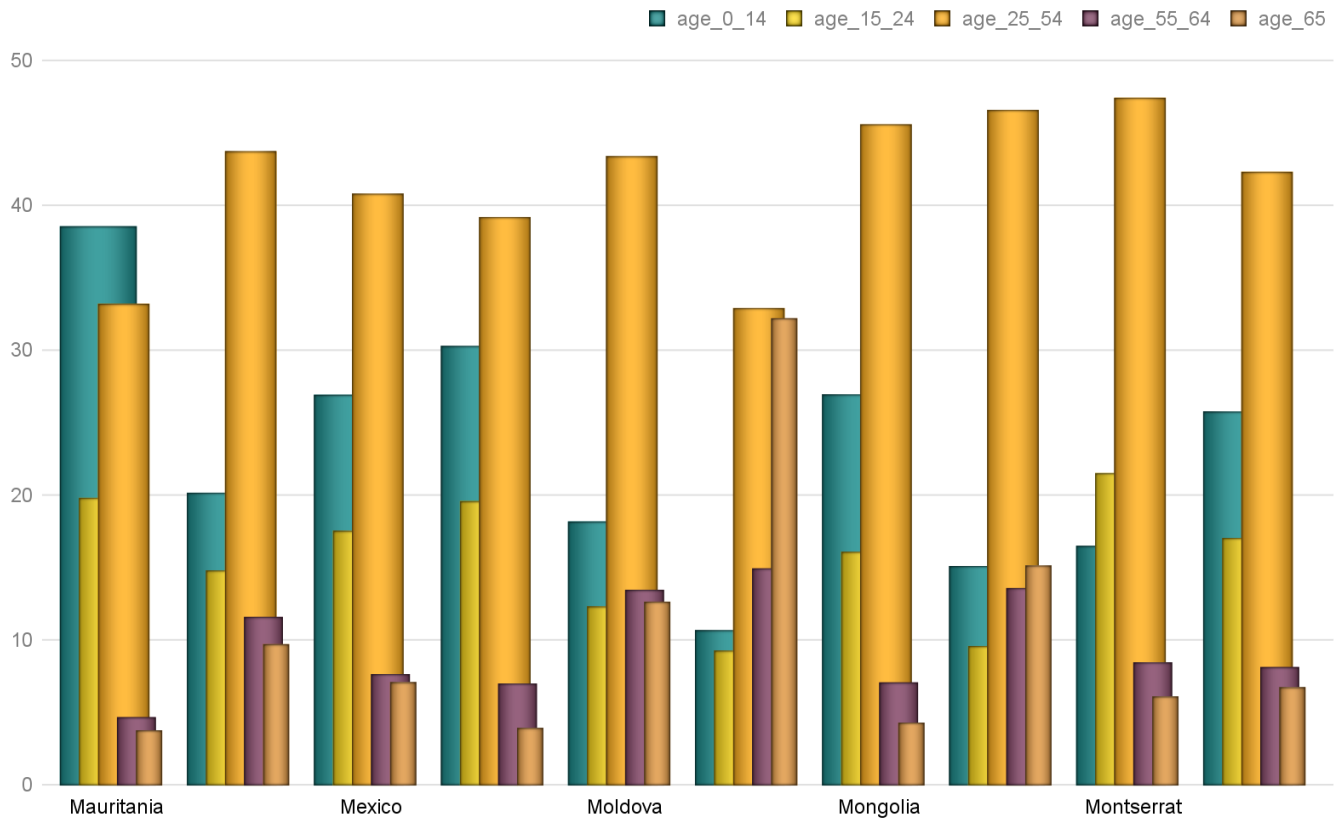
False

Apply character formatting



Grafik №14

Altersverteilung für ausgewählte Länder nach WHO: Mauritania, Mauritius, Mexico, Micronesia, Federated States of, Moldova, Monaco, Mongolia, Montenegro, Montserrat, Morocco



[Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!](#)

A `run` object has a read-only `font` property providing access to a `Font` object. A `run`'s `font` object provides properties for getting and setting the character formatting for that run.

Several examples are provided here. For a complete set of the available properties, see the [API documentation](#).

The font for a run can be accessed like this:

```
>>> from docx import Document
```



Bericht Block №15

Text Block №15

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

```
>>> run = document.add_paragraph().add_run()
```

```
>>> font = run.font
```

Typeface and size are set like this:

```
>>> from docx.shared import Pt
```

Tabelle №15

Altersverteilung für ausgewählte Länder nach WHO: Mozambique,Namibia,Nauru,Nepal,Netherlands,New Caledonia,New Zealand,Nicaragua,Niger,Nigeria

	Gesamt Population	Altersgruppen				
		0-14	15-24	25-54	55-64	65+
Mozambique	17.2	44.72	21.57	27.42	3.4	2.9
Namibia	21.2	36.97	20.35	34.37	4.35	3.96
Nauru	26.4	31.4	16.21	43.4	6.38	2.6
Nepal	24.1	30.2	21.73	36.58	6.32	5.17
Netherlands	42.6	16.41	12.07	39.52	13.28	18.73
New Caledonia	32.0	22.46	16.44	43.5	8.4	9.2
New Zealand	37.9	19.69	13.35	39.82	11.89	15.25
Nicaragua	25.7	27.24	21.26	40.24	5.98	5.28
Niger	15.4	49.01	19.1	25.97	3.28	2.64
Nigeria	18.4	42.54	19.61	30.74	3.97	3.13
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```
>>> font.size = Pt(12)
```

Many font properties are tri-state, meaning they can take the values True, False, and None. True means the property is “on”, False means it is “off”. Conceptually, the None value means “inherit”. A run exists in the style inheritance hierarchy and by default inherits its character formatting from that hierarchy. Any character formatting directly applied using the object overrides the inherited values.

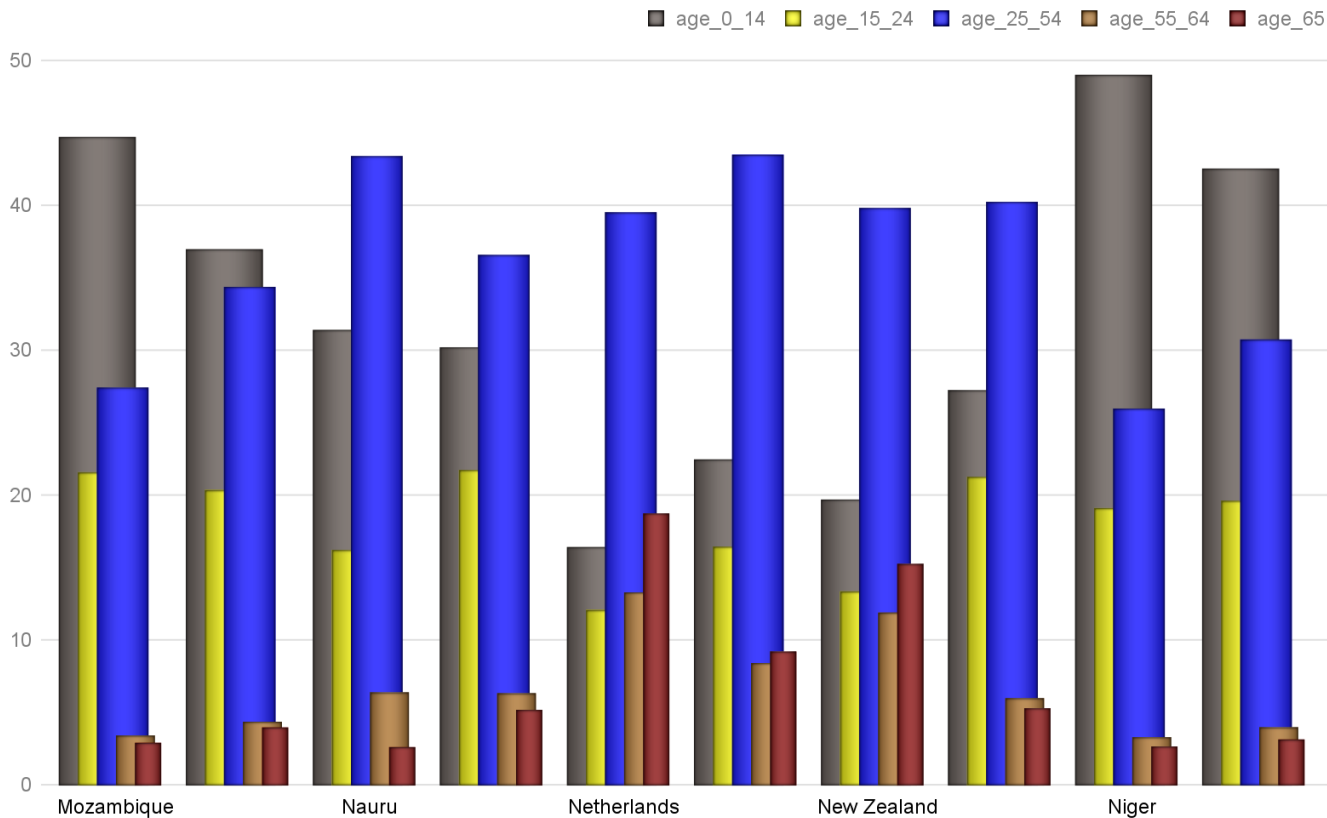
Bold and italic are tri-state properties, as are all-caps, strikethrough, superscript, and many others. See the API documentation for a full list:

```
>>> font.bold, font.italic
```



Grafik №15

Altersverteilung für ausgewählte Länder nach WHO: Mozambique, Namibia, Nauru, Nepal, Netherlands, New Caledonia, New Zealand, Nicaragua, Niger, Nigeria



[Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!](#)

```
>>> font.italic = True
```

```
>>> font.italic
```

```
True
```

```
>>> font.italic = False
```



Bericht Block №16

Text Block №16

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

False

```
>>> font.italic = None
```

```
>>> font.italic
```

None

Tabelle №16

Altersverteilung für ausgewählte Länder nach WHO: Northern Mariana Islands, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, Peru, Philippines

	Gesamt Population		Altersgruppen			
	Median	0-14	15-24	25-54	55-64	65+
Northern Mariana Isla	33.6	26.63	15.59	39.96	12.37	5.44
Norway	39.2	18.0	12.58	41.01	11.71	16.71
Oman	25.6	30.1	18.69	43.8	3.92	3.49
Pakistan	23.8	31.36	21.14	37.45	5.57	4.48
Palau	33.4	19.69	16.68	45.89	9.65	8.08
Panama	29.2	26.4	16.99	40.35	7.91	8.36
Papua New Guinea	23.1	33.43	19.92	36.89	5.49	4.28
Paraguay	28.2	24.56	19.29	41.08	7.95	7.12
Peru	28.0	26.31	18.31	40.19	7.78	7.41
Philippines	23.5	33.39	19.16	36.99	5.97	4.49
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```
>>> font.underline
```

None

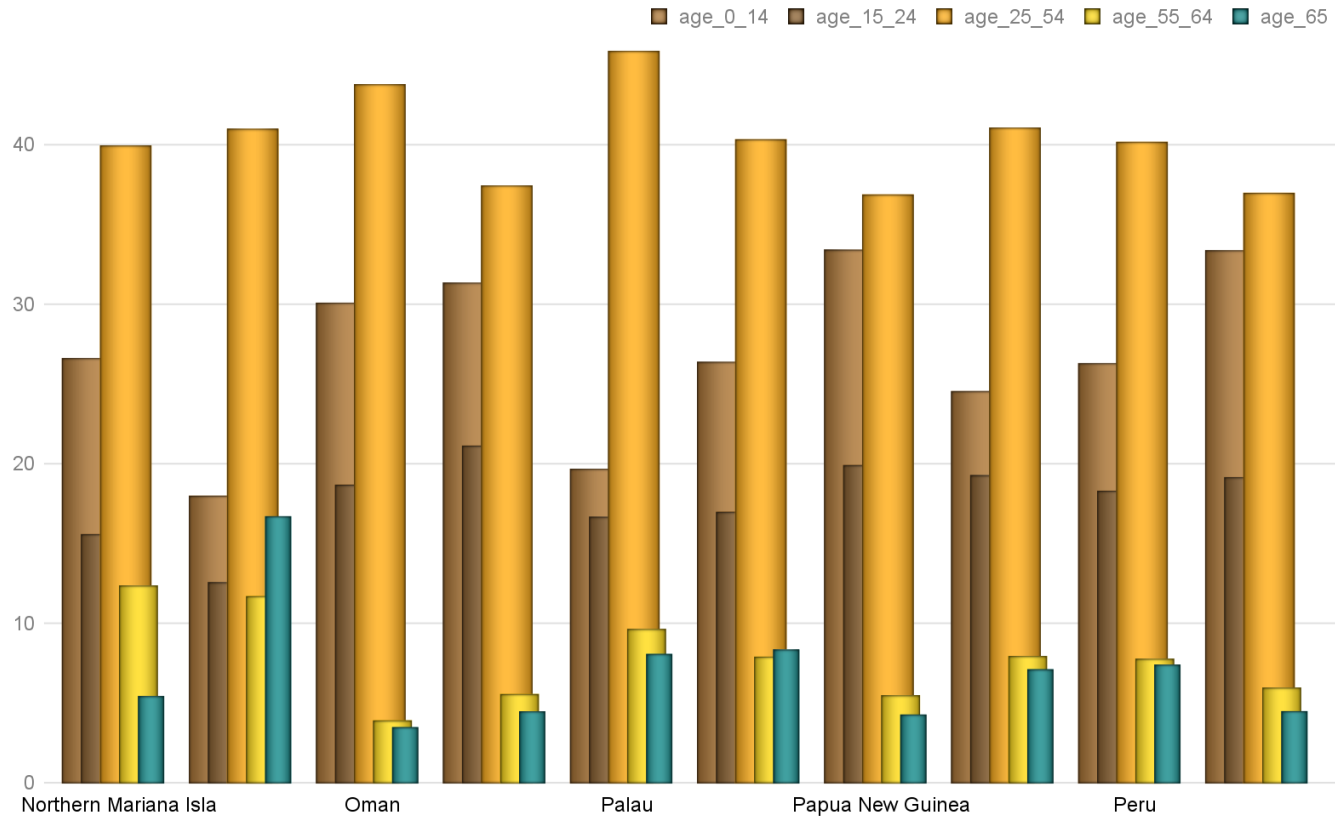
```
>>> font.underline = True
```

```
>>> # or perhaps
```



Grafik №16

Altersverteilung für ausgewählte Länder nach WHO: Northern Mariana Islands,Norway,Oman,Pakistan,Palau,Panama,Papua New Guinea,Paraguay,Peru,Philippines



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Font color

Each object has a ColorFormat object that provides access to its color, accessed via its read-only color property.

Apply a specific RGB color to a font:

```
>>> from docx.shared import RGBColor
```



Bericht Block №17

Text Block №17

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A font can also be set to a theme color by assigning a member of the enumeration:


```
>>> from docx.enum.dml import MSO_THEME_COLOR
```

```
>>> font.color.theme_color = MSO_THEME_COLOR.ACCENT_1
```

A font's color can be restored to its default (inherited) value by assigning None to either the rgb or theme_color attribute of ColorFormat:

Tabelle №17

Altersverteilung für ausgewählte Länder nach WHO: Poland, Portugal, Puerto Rico, Qatar, Romania, Russia, Rwanda, Saint Barthelemy, Saint Helena, Ascension, and Tristan da, Saint Kitts and Nevis

	Gesamt Population	Altersgruppen				
	Median	0-14	15-24	25-54	55-64	65+
Poland	40.7	14.76	10.7	43.48	14.21	16.86
Portugal	42.2	15.34	11.36	41.72	12.18	19.4
Puerto Rico	41.5	15.77	13.71	38.1	12.93	19.48
Qatar	33.2	12.63	12.35	70.59	3.42	1.0
Romania	41.1	14.35	10.6	46.03	12.61	16.41
Russia	39.6	17.12	9.46	44.71	14.44	14.28
Rwanda	19.0	41.38	19.34	32.77	4.09	2.43
Saint Barthelemy	44.1	16.41	7.24	43.78	15.83	16.75
Saint Helena, Ascensi	41.9	15.97	12.19	43.89	12.83	15.13
Saint Kitts and Nevis	35.0	20.32	14.54	44.6	11.9	8.64
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Determining the color of a font begins with determining its color type:

```
>>> font.color.type
```

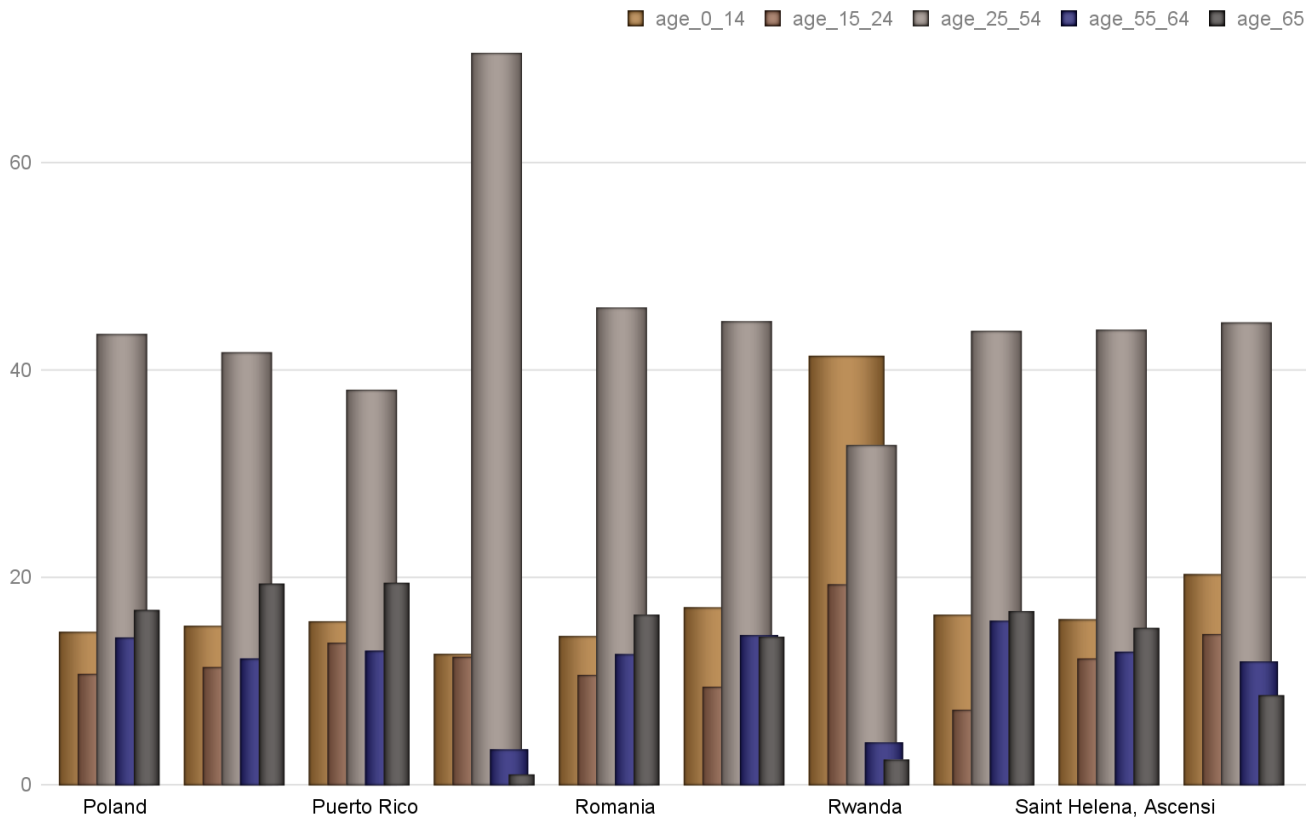
RGB (1)

The value of the property can be a member of the enumeration or None. MSO_COLOR_TYPE.RGB indicates it is an RGB color. MSO_COLOR_TYPE.THEME indicates a theme color. MSO_COLOR_TYPE.AUTO indicates its value is determined automatically by the application, usually set to black. (This value is relatively rare.) None indicates no color is applied and the color is inherited from the style hierarchy; this is the most common case.



Grafik №17

Altersverteilung für ausgewählte Länder nach WHO: Poland, Portugal, Puerto Rico, Qatar, Romania, Russia, Rwanda, Saint Barthelemy, Saint Helena, Ascension, and Tristan da, Saint Kitts and Nevis



[Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!](#)

```
>>> font.color.rgb
```

```
RGBColor(0x42, 0x24, 0xe9)
```

When the color type is `MSO_COLOR_TYPE.THEME`, the `theme_color` property will be a member of indicating the theme color:

```
>>> font.color.theme_color
```




Bericht Block №18

Text Block №18

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

Working with Styles


This page uses concepts developed in the prior page without introduction. If a term is unfamiliar, consult the prior page for a definition.

Access a style

Styles are accessed using the `Document.styles` attribute:

Tabelle №18

Altersverteilung für ausgewählte Länder nach WHO: Saint Lucia, Saint Martin, Saint Pierre and Miquelon, Saint Vincent and the Grenadines, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serb

	Gesamt Population	Altersgruppen				
		0-14	15-24	25-54	55-64	65+
 Saint Lucia	34.8	20.02	15.37	42.97	9.99	11.65
Saint Martin	32.5	26.22	10.35	46.67	8.74	8.02
Saint Pierre and Miqu	46.5	15.29	9.05	41.79	13.54	20.33
Saint Vincent and the	33.6	21.3	15.97	42.66	10.64	9.42
Samoa	24.4	31.35	19.82	36.33	6.78	5.72
San Marino	44.4	15.22	11.52	40.78	12.92	19.56
Sao Tome and Principe	18.4	41.85	20.68	30.82	3.81	2.83
Saudi Arabia	27.5	26.1	18.57	46.86	5.03	3.44
Senegal	18.8	41.51	20.33	31.19	3.98	2.98
Serb	42.6	14.5	11.26	41.32	14.49	18.43
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```
>>> styles = document.styles
```

```
>>> styles
```

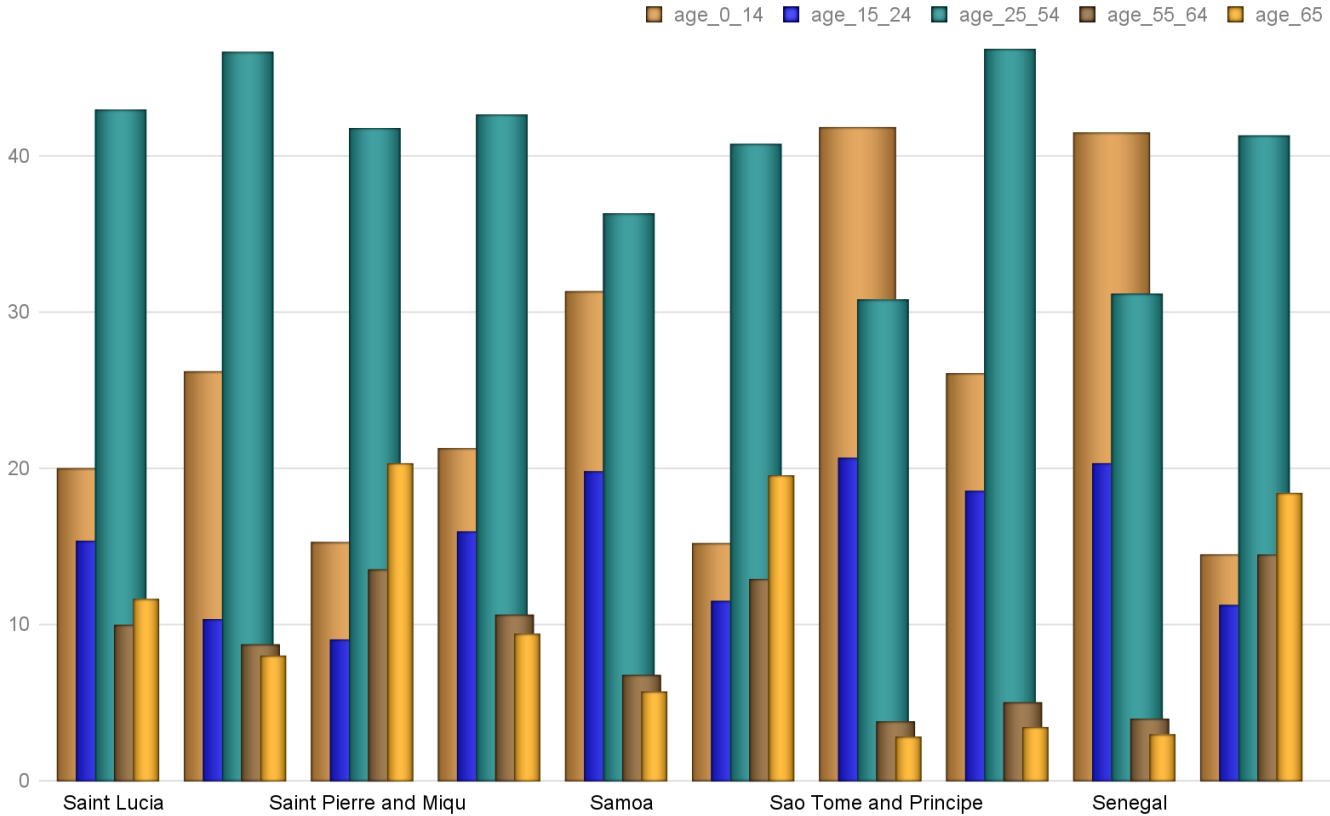
```
<docx.styles.styles.Styles object at 0x10a7c4f50>
```

The `styles` object provides dictionary-style access to defined styles by name:



Grafik №18

Altersverteilung für ausgewählte Länder nach WHO: Saint Lucia, Saint Martin, Saint Pierre and Miquelon, Saint Vincent and the Grenadines, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serb



Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

<docx.styles.style._ParagraphStyle object at <0x10a7c4f6b>

Built-in styles are stored in a WordprocessingML file using their English name, e.g. 'Heading 1', even though users working on a localized version of Word will see native language names in the UI, e.g. 'Kop 1'. Because python-docx operates on the WordprocessingML file, style lookups must use the English name. A document available on this external site allows you to create a mapping between local language names and English style names:

User-defined styles, also known as custom styles, are not localized and are accessed with the name exactly as it appears in the Word UI.



Bericht Block №19

Text Block №19

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

```
>>> from docx.enum.style import WD_STYLE_TYPE


>>> styles = document.styles

>>> paragraph_styles = [

...     s for s in styles if s.type == WD_STYLE_TYPE.PARAGRAPH
```

Tabelle №19

Altersverteilung für ausgewählte Länder nach WHO: Seychelles, Sierra Leone, Singapore, Sint Maarten, Slovakia, Slovenia, Solomon Islands, Somalia, South Africa, South Sudan

	Gesamt Population	Altersgruppen				
	Median	0-14	15-24	25-54	55-64	65+
Seychelles	35.4	19.88	13.24	49.36	9.88	7.64
Sierra Leone	19.0	41.82	18.56	32.16	3.7	3.76
Singapore	34.6	12.82	16.56	50.53	10.46	9.63
Sint Maarten	41.0	18.43	14.59	41.99	15.92	9.07
Slovakia	40.5	15.17	10.87	45.1	13.42	15.43
Slovenia	44.5	13.32	9.45	42.9	14.83	19.51
Solomon Islands	22.5	34.59	19.99	36.5	4.65	4.27
Somalia	18.1	43.15	19.04	31.43	4.2	2.19
South Africa	27.1	28.27	17.61	41.78	6.66	5.68
South Sudan	17.3	44.37	20.56	29.58	3.39	2.1
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```
>>> for style in paragraph_styles:

...     print(style.name)

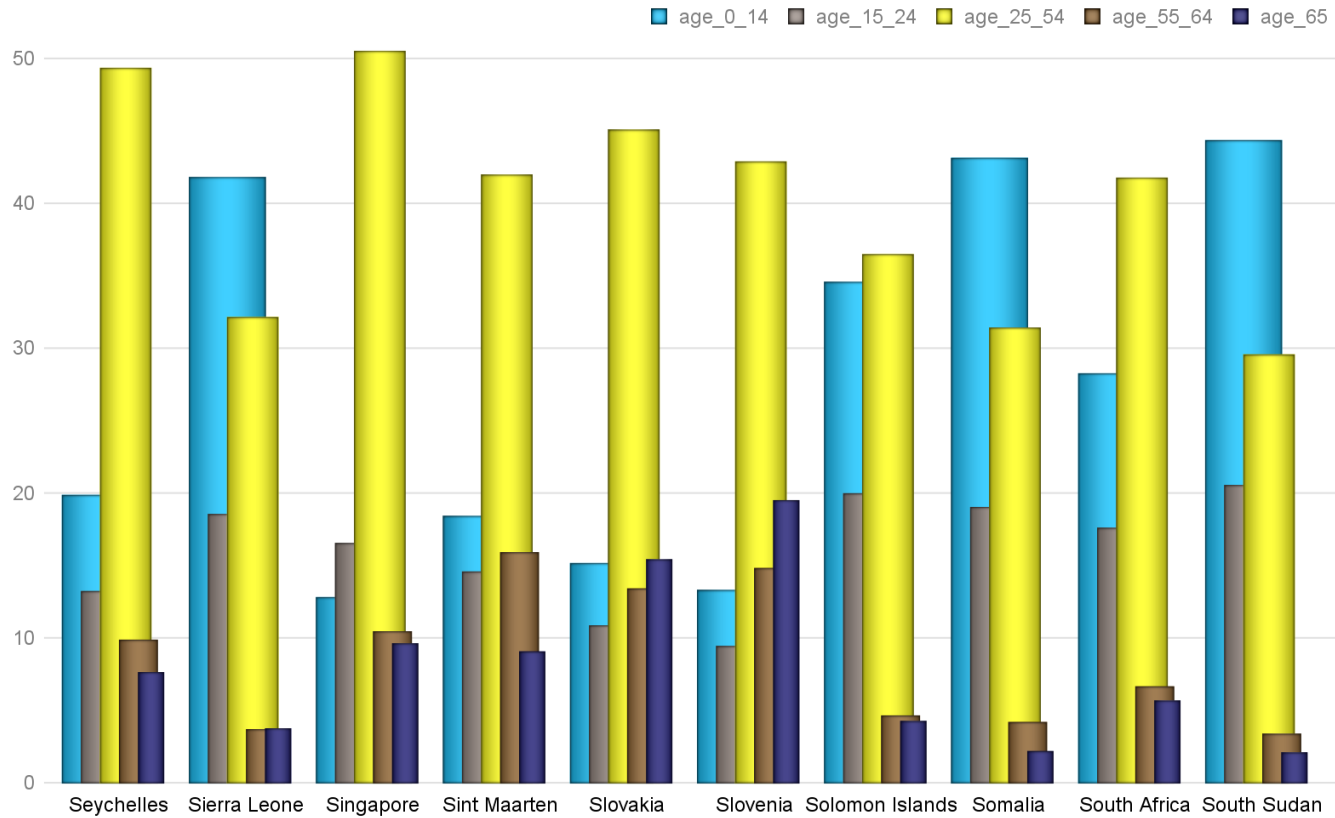
...

Normal
```



Grafik №19

Altersverteilung für ausgewählte Länder nach WHO: Seychelles, Sierra Leone, Singapore, Sint Maarten, Slovakia, Slovenia, Solomon Islands, Somalia, South Africa, South Sudan



[Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!](#)

List Bullet

Apply a style

The , , and objects each have a style attribute. Assigning a style object to this attribute applies that style:

```
>>> document = Document()
```



Bericht Block №20

Text Block №20

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

```
>>> paragraph.style
```


```
<docx.styles.style._ParagraphStyle object at <0x11a7c4c50>
```

```
>>> paragraph.style.name
```

```
'Normal'
```

Tabelle №20

Altersverteilung für ausgewählte Länder nach WHO: Spain, Sri Lanka, Sudan, Suriname, Swaziland, Sweden, Switzerland, Syria, Taiwan, Tajikistan

	Gesamt Population		Altersgruppen				
	Median	0-14	15-24	25-54	55-64	65+	
 Spain	42.7	15.38	9.58	44.91	12.14	17.98	
Sri Lanka	32.8	24.06	14.63	41.58	10.06	9.67	
Sudan	19.9	38.68	21.04	32.77	4.24	3.27	
Suriname	29.8	24.62	17.44	44.4	7.54	6.01	
Swaziland	21.7	35.01	22.12	34.6	4.3	3.97	
Sweden	41.2	17.43	11.31	39.42	11.58	20.26	
Switzerland	42.4	15.16	10.88	43.21	12.6	18.15	
Syria	24.3	31.62	19.54	39.22	5.41	4.21	
Taiwan	40.7	12.88	12.88	46.41	14.12	13.72	
Tajikistan	24.5	32.33	18.61	40.12	5.62	3.32	
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Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

```
>>> paragraph.style.name
```

```
'Heading 1'
```

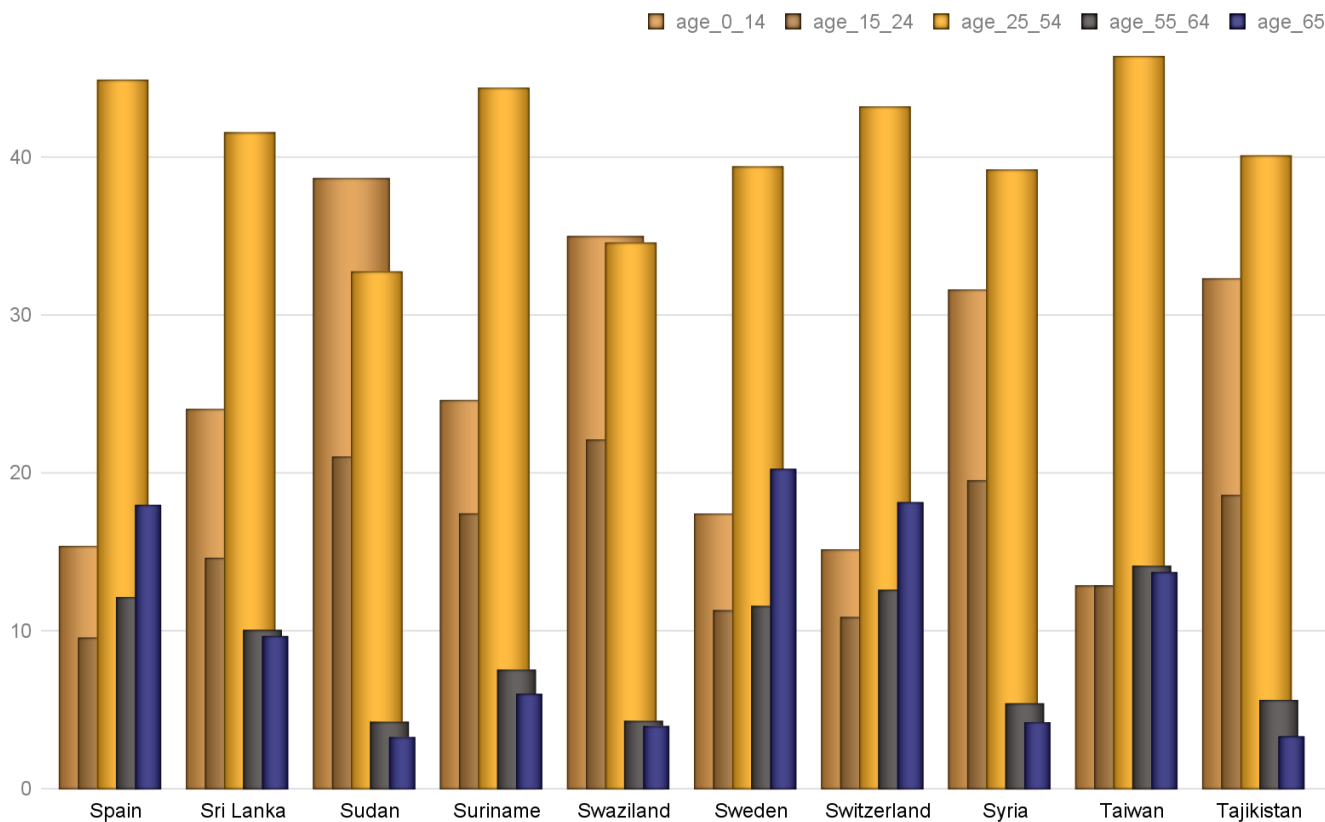
A style name can also be assigned directly, in which case python-docx will do the lookup for you:

```
>>> paragraph.style = 'List Bullet'
```



Grafik №20

Altersverteilung für ausgewählte Länder nach WHO: Spain, Sri Lanka, Sudan, Suriname, Swaziland, Sweden, Switzerland, Syria, Taiwan, Tajikistan



[Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!](#)

<docx.styles.style._ParagraphStyle object at <0x10a7c4f84>

>>> paragraph.style.name

'List Bullet'

A style can also be applied at creation time using either the style object or its name:



Bericht Block №21

Text Block №21

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

```
>>> paragraph.style.name
```

```
'Body Text'
```

```
>>> body_text_style = document.styles['Body Text']
```

```
>>> paragraph = document.add_paragraph(style=body_text_style)
```

Tabelle №21

Altersverteilung für ausgewählte Länder nach WHO: Tanzania,Thailand,Timor-Leste,Togo,Tonga,Trinidad and Tobago,Tunisia,Turkey,Turkmenistan,Turks and Caicos Islands

	Gesamt Population	Altersgruppen				
		0-14	15-24	25-54	55-64	65+
Tanzania	17.7	43.74	19.86	29.88	3.51	3.02
Thailand	37.7	16.93	14.17	46.32	12.0	10.58
Timor-Leste	18.9	40.91	20.32	29.95	4.94	3.87
Togo	19.8	40.29	19.2	32.79	4.31	3.41
Tonga	23.0	33.87	19.65	34.3	5.76	6.42
Trinidad and Tobago	36.0	19.29	11.88	45.56	12.61	10.65
Tunisia	31.6	25.15	13.99	43.38	9.54	7.95
Turkey	30.9	24.68	15.99	43.21	8.58	7.53
Turkmenistan	27.9	25.79	18.39	43.18	7.9	4.74
Turks and Caicos Isla	33.3	21.74	13.99	53.17	6.54	4.57
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```
'Body Text'
```

```
Add or delete a style
```

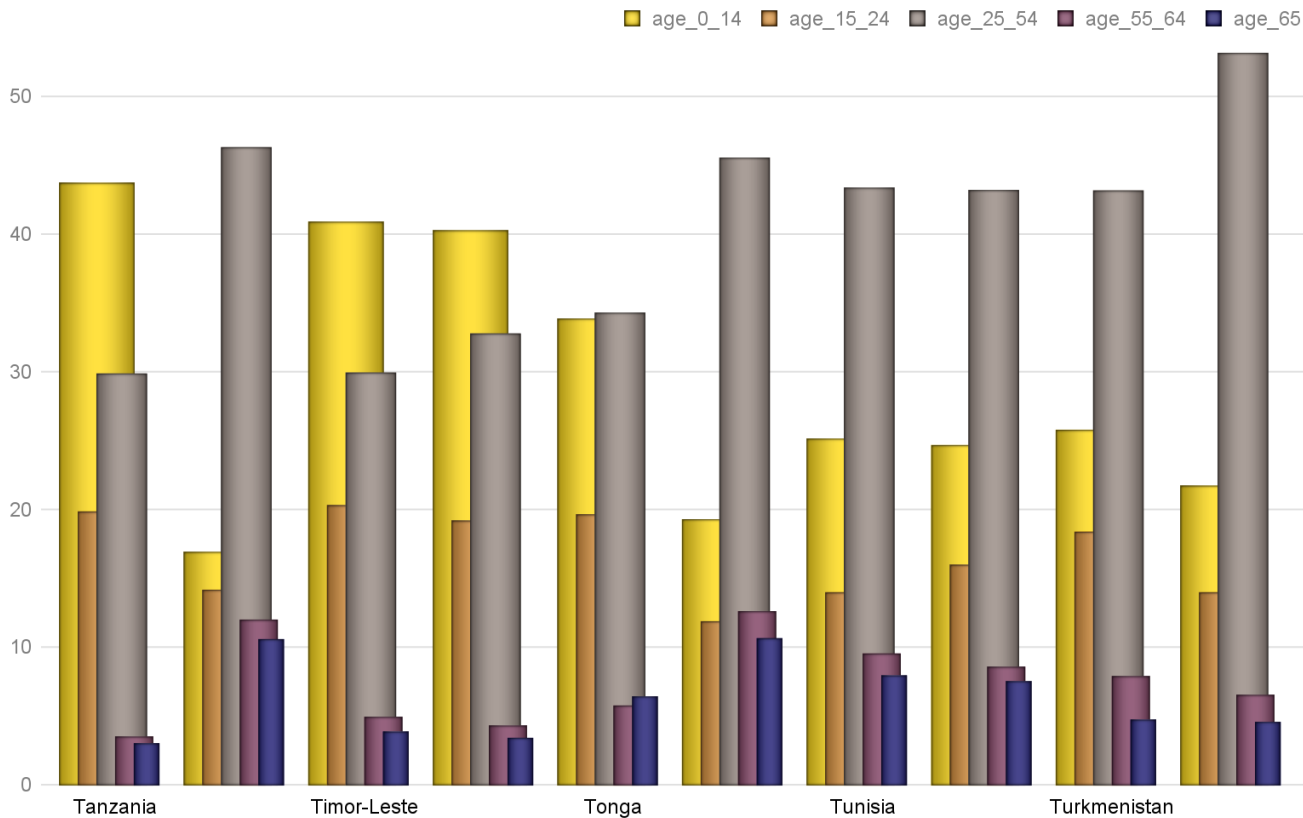
A new style can be added to the document by specifying a unique name and a style type:

```
>>> from docx.enum.style import WD_STYLE_TYPE
```



Grafik №21

Altersverteilung für ausgewählte Länder nach WHO: Tanzania, Thailand, Timor-Leste, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Turks and Caicos Islands



[Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!](#)

```
>>> style = styles.add_style('Citation', WD_STYLE_TYPE.PARAGRAPH)
```

```
>>> style.name
```

```
'Citation'
```

```
>>> style.type
```




Bericht Block №22

Text Block №22

Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!

Use the `base_style` property to specify a style the new style should inherit formatting settings from:

```
>>> style.base_style
```

None

```
>>> style.base_style = styles['Normal']
```

Tabelle №22

Altersverteilung für ausgewählte Länder nach WHO: Tuvalu,Uganda,Ukraine,United Arab Emirates,United Kingdom,United States,Uruguay,Uzbekistan,Vanuatu,Venezuela

	Gesamt Population	Altersgruppen				
		0-14	15-24	25-54	55-64	65+
Tuvalu	25.7	29.29	19.26	36.66	8.77	6.02
Uganda	15.8	48.05	21.1	26.3	2.57	1.98
Ukraine	40.6	15.76	9.86	44.29	13.8	16.3
United Arab Emirates	30.3	21.01	13.51	61.14	3.27	1.07
United Kingdom	40.5	17.53	11.9	40.55	11.98	18.04
United States	38.1	18.73	13.27	39.45	12.91	15.63
Uruguay	35.0	20.17	15.69	39.34	10.56	14.25
Uzbekistan	28.6	23.88	18.52	44.49	7.85	5.25
Vanuatu	22.0	35.51	20.02	35.06	5.42	3.99
Venezuela	28.3	27.36	17.03	40.53	7.98	7.09
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```
<docx.styles.style._ParagraphStyle object at 0x10a7a9550>
```

```
>>> style.base_style.name
```

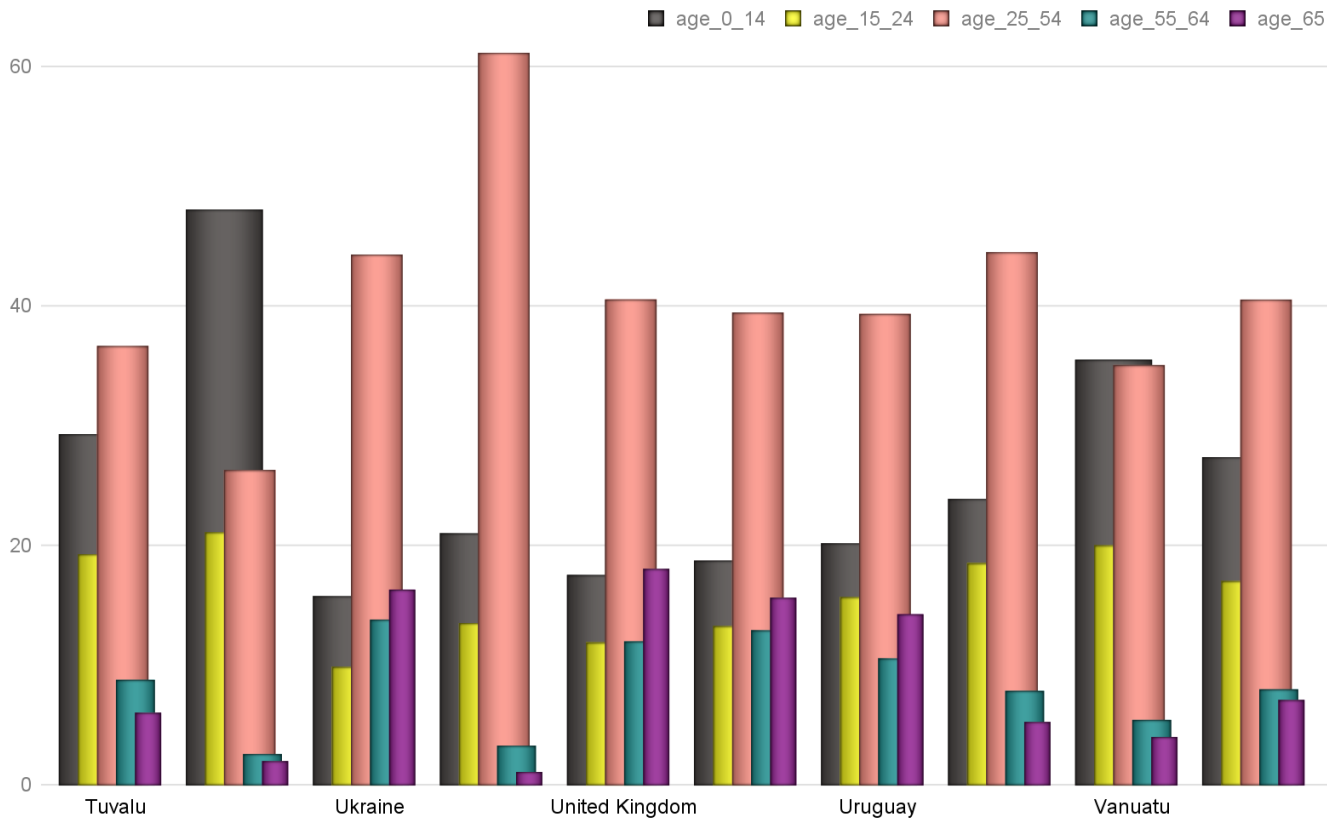
'Normal'

A style can be removed from the document simply by calling its `delete()` method:



Grafik №22

Altersverteilung für ausgewählte Länder nach WHO: Tuvalu, Uganda, Ukraine, United Arab Emirates, United Kingdom, United States, Uruguay, Uzbekistan, Vanuatu, Venezuela



[Hinweis: Alle Text Blöcke wurde vom Python-Dokumentation kopiert!](#)

```
>>> len(styles)
```

```
10
```

```
>>> styles['Citation'].delete()
```

```
>>> len(styles)
```