

## Tjakra Documentation



### A. What is Tjakra?

**Tjakra** (*cakra*) is a *markup language* that can be used to create **PDF documents** with simple syntax. The name **Tjakra** is taken from the name of one of the cultural heritage sites in **Aceh**, namely the *Cakra Donya Bell*. **Tjakra** is made of *Javascript*, *HTML*, and *CSS*. **Tjakra** is expected to be an *easier* and *more powerful markup language* than other *markup languages* such as **LaTeX** dan **Markdown**.

### B. Tjakra Elements

The following is a table listing the Tjakra elements:

Element	Explanation
config	To configure the document
pages	As a container for the entire contents of the document
header	The top container of a page
main	The main container that can be filled with various elements and properties
footer	The bottom container of a page
section	Additional container to hold elements
h1 - h6	Header element (Same as HTML h1-h6 tag)
p	Paragraf element (Same as HTML p tag)
ul	Unordered list element (Same as HTML ul tag)
ol	Ordered list element (Same as HTML ol tag)
li	List element (Same as HTML li tag)
img	Image element (Same as HTML img tag)
link	Hyperlink element (Same as HTML a tag). Example: <a href="#">Github</a>
table	Table element (Same as HTML table tag)
thead	Table head section element (Same as HTML thead tag)
tbody	Table body section element (Same as HTML tbody tag)
tfoot	Table footer element (Same as HTML tfoot tag)
tr	Table row element (Same as HTML tr tag)
th	Table header element (Same as HTML th tag)
td	Table data element (Same as HTML td tag)

Table: Tjakra elements

### C. Tjakra Special Elements

The following is a table listing Tjakra's special elements:

Element	Explanation
!line-break	For a line break, same as "enter" or HTML br tag
!tracer-round	Horizontal line (Same as HTML hr tag)

Table: Tjakra's special elements

### D. Tjakra Properties

The following is a table listing Tjakra properties:

Property	Explanation
line-height	To determine the row height (px (pixel), pt(point), em, rem, % (percent), vh/vw (viewport height/width), vmin/vmax, pt (point), cm, mm, in (inch), or ex/ch)
space-bp	To determine the spacing before a paragraph
space-ap	To determine the spacing after a paragraph
font-family	To select a font family (Same as CSS) such as Arial, Helvetica, Verdana, Tahoma, Trebuchet MS, Lucida Sans Unicode, Times New Roman, Georgia, Palatino Linotype, Book Antiqua, Courier New, Lucida Console, Impact, and Comic Sans MS
font-size	To determine the font size (px (pixel), pt(point), em, rem, % (percent), vh/vw (viewport height/width), vmin/vmax, cm, mm, in (inch), or ex/ch)
font-weight	To determine the font weight (normal, bold, lighter, bolder, or 100-900)
font-style	To determine the font style (normal, italic, oblique)
color	To change the text color, the value can be a color name (red, green, blue), hex code, hsl or rgb
text-align	To change the text align (left, center, right)
text-decoration	To change the text decoration (none, underline, overline, line-through, blink, inherit, initial, unset)
width	To determine the width of the element (px (pixel), pt(point), em, rem, % (percent), vh/vw (viewport height/width), vmin/vmax, cm, mm, in (inch), or ex/ch)
height	To determine the height of the element (px (pixel), pt(point), em, rem, % (percent), vh/vw (viewport height/width), vmin/vmax, cm, mm, in (inch), or ex/ch)

Table: Tjakra properties

## E. Tjakra's Special Properties

The following is a table listing Tjakra's Special Properties:

Property	Explanation
papersize	To determine the paper size (used in the config element) (letter, legal, tabloid, ledger, A0, A1, A2, A3, A4, A5, A6, or custom paper sizes in inches (e.g., "8.27*12.99", "[width][height]"))
margin	To determine the margin (used in the config element) (normal, narrow, moderate, wide, or custom margins in inches (e.g., "3+3+3+4", "[top][right][bottom][left]"))
align	To align elements within a container (header, section, or footer) (left, center, right)
src	Image source (can be a link or a path)
alt	Alternative text displayed if the image is not available
ref	Specifies the destination link

Table: Tjakra's Special Properties

## F. Tjakra Inline Styles

The following is a table listing Tjakra's inline styles:

Element	Explanation	Example
{b: ...}	Bold text	{b: Hello} become <b>Hello</b>
{i: ...}	Italic text	{i: Hello} become <i>Hello</i>
{u: ...}	Underline text	{u: Hello} become <u>Hello</u>
{sup: ...}	Superscript	x {sup: 2} become x <sup>2</sup>
{sub: ...}	Subscript	CO {sub: 2} become CO <sub>2</sub>
{hl: ...}	Highlight text	{hl: Hello} become <b>Hello</b>
{del: ...}	Deleted text	{del: Hello} become <del>Hello</del>
{line-break}	For a line break, same as "enter" or HTML br tag	Hello {line-break} World become Hello World
{tracer-round}	Horizontal line (Same as HTML hr tag)	{tracer-round} become
{indent}	Indentation (Same as 4 times in HTML)	Hello {indent} World become Hello World
{pgnum}	Create page numbers automatically and sequentially	1, 2, 3, ..., n
Special punctuations	Special punctuations (Same as HTML). <a href="#">Read docs</a>	&int; (HTML) become {int} (Tjakra) become ∫

Table: Tjakra's inline styles

## G. Tjakra Keywords

The following is a table listing Tjakra's keywords:

Keyword	Explanation	Example
@include	Including additional Tjakra files into the main Tjakra file	@include: "abstract.tj";

Table: Tjakra keywords