

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 |
| 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) |
| 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's special elements:

| Property | Explanation |
|-----------------|---|
| papersize | To determine the paper size (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 (normal, narrow, moderate, wide, or custom margins in inches (e.g., "3+3+3+4", "[top][right][bottom][left]")) |
| 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's special elements

E. Tjakra Inline Styles

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

| Element | Explanation | Example |
|----------------|--|---|
| {b: ...} | Bold text | {b: Hello} become Hello |
| {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 ² |
| {sub: ...} | Subscript | CO{sub: 2} become CO ₂ |
| {hl: ...} | Highlight text | {hl: Hello} become COHello |
| {del: ...} | Deleted text | {del: Hello} become CO Hello |
| {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 <hr/> |

Table: Tjakra's inline styles