Types

Element

Copy page

Unified data structure for visible elements in notes/documents.

`Element` describes the common metadata of all visible elements in a note file (and in document annotation scenarios), such as strokes, titles, links, text boxes, geometries, and pictures. An `Element` uses `type` to distinguish its category and provides more specific structures under the corresponding fields (e.g. `stroke` , `title` , `link` , `textBox` , `geometry` , `picture`).

If you only care about the element category, read `type` . If you need to operate on the content, read typed fields such as `stroke/title/link/textBox/geometry` based on `type` .

Type Constants

`ElementType` defines the value range of `Element.type` .

ElementType

In the table below, the `ElementType.` prefix is omitted in the Constant column. In code, use the full name: `ElementType.XXX` .

Type	Constant	Value	Description	Detail Field
Stroke	`TYPE_STROKE`	`0`	Handwritten stroke	`stroke`
Title	`TYPE_TITLE`	`100`	Title element	`title`
Picture	`TYPE_PICTURE`	`200`	Picture element	`picture`
Text box	`TYPE_TEXT`	`500`	Text box	`textBox`
Digest quote text box	`TYPE_TEXT_DIGEST_QUOTE`	`501`	Digest quote	`textBox`

Type	Constant	Value	Description	Detail Field
Digest created text box	`TYPE_TEXT_DIGEST_CREATE`	`502`	Created as a digest in notes	`textBox`
Link	`TYPE_LINK`	`600`	Text link / stroke link	`link`
Geometry	`TYPE_GEO`	`700`	Geometry	`geometry`
Five-star	`TYPE_FIVE_STAR`	`800`	Five-star	`fiveStar`

Fields

Field	Type	Description
`uuid`	`string`	Unique identifier for the element
`type`	`number`	Element type. See `ElementType`
`pageNum`	`number`	Page number
`layerNum`	`number`	Layer number (common range in notes: `0..3`)
`thickness`	`number`	Stroke thickness (may be meaningless for some element types)
`recognizeResult`	`RecogResultData`	Recognition result data
`maxX`	`number`	Max X value in the EMR coordinate system. See **Coordinate System**
`maxY`	`number`	Max Y value in the EMR coordinate system. See **Coordinate System**
`angles`	`ElementDataAccessor<Point>`	Angle points. The dataset can be large, so RN holds an accessor/index; raw data is on the Android side
`status`	`number`	Element status
`numInPage`	`number`	Index within the page (starts from `0`)
`contoursSrc`	`ElementDataAccessor<Point[]>`	Contour points (pixel coordinates). RN holds an accessor/index; raw data is on the Android side
`stroke`	`Stroke | null`	Stroke data (only when `type === 0`)
`title`	`Title | null`	Title data (only when `type === 100`)
`textBox`	`TextBox | null`	Text box data (only for text-box-related types)
`geometry`	`Geometry | null`	Geometry data (only when `type === 700`)
`link`	`Link | null`	Link data (only when `type === 600`)

Field	Type	Description
`fiveStar`	`FiveStar | null`	Five-star data (only when `type === 800` ; see “FiveStar” below)
`picture`	`Picture | null`	Picture data (only when `type === 200`)

> `angles` and `contoursSrc` are accessor objects, not full arrays. Fetch data asynchronously via `size()/get()/getRange()` to avoid JS memory issues caused by transferring large point sets at once.

FiveStar (Five-star)

When `type === 800` , the `fiveStar` field provides the point set of the five-star element.

Field	Type	Description
`points`	`Point[]`	Five-star point coordinates (EMR)

Methods

Method	Returns	Description
`recycle()`	`Promise<void>`	Recycle native cached data for this element and clear accessor caches