

sugarcaneCDF

May 12, 2026

`i2xy`

Convert (x,y)-coordinates to single-number indices and back.

Description

Convert (x,y)-coordinates on the chip (and in the CEL file) to the single-number indices used in AffyBatch and CDF environment, and back.

Usage

```
i2xy(i)
xy2i(x,y)
```

Arguments

| | |
|----------------|-------------------------------------------------|
| <code>x</code> | numeric. x-coordinate (from 1 to 478) |
| <code>y</code> | numeric. y-coordinate (from 1 to 478) |
| <code>i</code> | numeric. single-number index (from 1 to 228484) |

Details

Type `i2xy` and `xy2i` at the R prompt to view the function definitions.

See Also

[sugarcaneCDF](#)

Examples

```
xy2i(5,5)
i      = 1:(478*478)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

| | |
|--------------|---------------------|
| sugarcaneCDF | <i>sugarcaneCDF</i> |
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Description

environment describing the CDF file

| | |
|--------------|---------------------|
| sugarcaneDim | <i>sugarcaneDim</i> |
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Description

environment describing the CDF dimensions

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