

# sugarcaneCDF

June 3, 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>
--------------	---------------------

---

**Description**

environment describing the CDF file

---

sugarcaneDim	<i>sugarcaneDim</i>
--------------	---------------------

---

**Description**

environment describing the CDF dimensions

# Index

## \* datasets

i2xy, [1](#)

sugarcaneCDF, [2](#)

sugarcaneDim, [2](#)

i2xy, [1](#)

sugarcaneCDF, [1](#), [2](#)

sugarcaneDim, [2](#)

xy2i (i2xy), [1](#)