

# xtropicaliscdf

September 3, 2025

---

|      |                                                                     |
|------|---------------------------------------------------------------------|
| i2xy | <i>Convert (x,y)-coordinates to single-number indices and back.</i> |
|------|---------------------------------------------------------------------|

---

## 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

|   |                                                  |
|---|--------------------------------------------------|
| x | numeric. x-coordinate (from 1 to 1164)           |
| y | numeric. y-coordinate (from 1 to 1164)           |
| i | numeric. single-number index (from 1 to 1354896) |

## Details

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

## See Also

[xtropicaliscdf](#)

## Examples

```
xy2i(5,5)
i      = 1:(1164*1164)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

---

|                             |                       |
|-----------------------------|-----------------------|
| <code>xtropicaliscdf</code> | <i>xtropicaliscdf</i> |
|-----------------------------|-----------------------|

---

**Description**

environment describing the CDF file

---

|                             |                       |
|-----------------------------|-----------------------|
| <code>xtropicalisdim</code> | <i>xtropicalisdim</i> |
|-----------------------------|-----------------------|

---

**Description**

environment describing the CDF dimensions

# Index

## \* datasets

i2xy, [1](#)

xtropicaliscdf, [2](#)

xtropicalisdim, [2](#)

i2xy, [1](#)

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

xtropicalisdim, [2](#)

xy2i (i2xy), [1](#)