

# cottoncdf

November 8, 2024

---

|           |                  |
|-----------|------------------|
| cottoncdf | <i>cottoncdf</i> |
|-----------|------------------|

---

## Description

environment describing the CDF file

---

|           |                  |
|-----------|------------------|
| cottondim | <i>cottondim</i> |
|-----------|------------------|

---

## Description

environment describing the CDF dimensions

---

|      |   |
|------|---|
| 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 732)           |
| y | numeric. y-coordinate (from 1 to 732)           |
| i | numeric. single-number index (from 1 to 535824) |

**Details**

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

**See Also**

[cottoncdf](#)

**Examples**

```
xy2i(5,5)
i      = 1:(732*732)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

# Index

## \* datasets

cottoncdf, 1

cottondim, 1

i2xy, 1

cottoncdf, 1, 2

cottondim, 1

i2xy, 1

xy2i (i2xy), 1