

# cottoncdf

April 11, 2018

---

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

## \*Topic **datasets**

cottoncdf, 1

cottondim, 1

i2xy, 1

cottoncdf, 1, 2

cottondim, 1

i2xy, 1

xy2i (i2xy), 1