

# tomatocdf

October 13, 2016

---

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

x	numeric. x-coordinate (from 1 to 478)
y	numeric. y-coordinate (from 1 to 478)
i	numeric. single-number index (from 1 to 228484)

## Details

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

## See Also

[tomatocdf](#)

## 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"])
```

---

tomatocdf	<i>tomatocdf</i>
-----------	------------------

---

**Description**

environment describing the CDF file

---

tomatodim	<i>tomatodim</i>
-----------	------------------

---

**Description**

environment describing the CDF dimensions

# Index

## \*Topic **datasets**

i2xy, 1

tomatocdf, 2

tomatodim, 2

i2xy, 1

tomatocdf, 1, 2

tomatodim, 2

xy2i (i2xy), 1