

# htratfocuscdf

April 29, 2025

---

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 744)
y	numeric. y-coordinate (from 1 to 744)
i	numeric. single-number index (from 1 to 553536)

## Details

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

## See Also

[htratfocuscdf](#)

## Examples

```
xy2i(5,5)
i      = 1:(744*744)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

---

<code>htratfocuscdf</code>	<i>htratfocuscdf</i>
----------------------------	----------------------

---

**Description**

environment describing the CDF file

---

<code>htratfocusdim</code>	<i>htratfocusdim</i>
----------------------------	----------------------

---

**Description**

environment describing the CDF dimensions

# Index

## \* datasets

htratfocuscdf, 2

htratfocusdim, 2

i2xy, 1

htratfocuscdf, 1, 2

htratfocusdim, 2

i2xy, 1

xy2i (i2xy), 1