

# hthgu133acdf

October 18, 2023

---

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

[hthgu133acdf](#)

## 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"])
```

---

<i>hthgu133acdf</i>	<i>hthgu133acdf</i>
---------------------	---------------------

---

**Description**

environment describing the CDF file

---

<i>hthgu133adim</i>	<i>hthgu133adim</i>
---------------------	---------------------

---

**Description**

environment describing the CDF dimensions

# Index

## \* datasets

hthgu133acdf, [2](#)

hthgu133adim, [2](#)

i2xy, [1](#)

hthgu133acdf, [1](#), [2](#)

hthgu133adim, [2](#)

i2xy, [1](#)

xy2i (i2xy), [1](#)