# hgu133bcdf

November 17, 2026

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`i2xy` *Convert (x,y)-coordinates to single-number indices and back.*

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## 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 712) |
| `y` | numeric. y-coordinate (from 1 to 712) |
| `i` | numeric. single-number index (from 1 to 506944) |

## Details

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

## See Also

`hgu133bcdf`

## Examples

```
xy2i(5,5)
i     = 1:(712*712)
coord = i2xy(i)
j     = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

hgu133bcdf *hgu133bcdf*

## Description

environment describing the CDF file

hgu133bdim *hgu133bdim*

## Description

environment describing the CDF dimensions

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