

# xlaevis2cdf

February 8, 2012

---

`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

|                |   |
|----------------|---|
| <code>x</code> | numeric. x-coordinate (from 1 to 984)           |
| <code>y</code> | numeric. y-coordinate (from 1 to 984)           |
| <code>i</code> | numeric. single-number index (from 1 to 968256) |

## Details

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

## See Also

[xlaevis2cdf](#)

## Examples

```
xy2i(5, 5)
i      = 1:(984*984)
coord = i2xy(i)
j      = xy2i(coord[, "x"], coord[, "y"])
stopifnot(all(i==j))
range(coord[, "x"])
range(coord[, "y"])
```

---

|                          |                    |
|--------------------------|--------------------|
| <code>xlaevis2cdf</code> | <i>xlaevis2cdf</i> |
|--------------------------|--------------------|

---

**Description**

environment describing the CDF file

---

|                          |                    |
|--------------------------|--------------------|
| <code>xlaevis2dim</code> | <i>xlaevis2dim</i> |
|--------------------------|--------------------|

---

**Description**

environment describing the CDF dimensions

# Index

## \*Topic **datasets**

`i2xy`, [1](#)

`xlaevis2cdf`, [2](#)

`xlaevis2dim`, [2](#)

`i2xy`, [1](#)

`xlaevis2cdf`, [1](#), [2](#)

`xlaevis2dim`, [2](#)

`xy2i (i2xy)`, [1](#)