

# **citruscdf**

December 17, 2025

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`citruscdf`

*citruscdf*

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## **Description**

environment describing the CDF file

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`citrusdim`

*citrusdim*

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## **Description**

environment describing the CDF dimensions

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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**

|                |                                                 |
|----------------|-------------------------------------------------|
| <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**

[citruscdf](#)

**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"])
```

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## \* **datasets**

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