

# barley1cdf

December 3, 2025

---

barley1cdf

*barley1cdf*

---

## Description

environment describing the CDF file

---

barley1dim

*barley1dim*

---

## Description

environment describing the CDF dimensions

---

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 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**

[barley1cdf](#)

**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"])
```

# Index

## \* **datasets**

barley1cdf, [1](#)

barley1dim, [1](#)

i2xy, [1](#)

barley1cdf, [1](#), [2](#)

barley1dim, [1](#)

i2xy, [1](#)

xy2i (i2xy), [1](#)