

The FLQuant class



Maritime Affairs Unit G04 - IPSC
European Commission
Joint Research Center

Class structure

array

- 6 dims: (quant), year, unit, season, area, iter

attributes

Class structure

array

- 6 dims: (quant), year, unit, season, area, iter

attributes

- units: character

6D array

```
> array(1:144, dim=c(3,3,2,2,2,2))
```

```
, , 1, 1, 1, 1
```

```
    [,1] [,2] [,3]
```

```
[1,]    1    4    7
```

```
[2,]    2    5    8
```

```
[3,]    3    6    9
```

```
, , 2, 1, 1, 1
```

```
    [,1] [,2] [,3]
```

```
[1,]   10   13   16
```

```
[2,]   11   14   17
```

```
[3,]   12   15   18
```

2D vs ...

```
> dfa[1:10,]
```

| | d1 | d2 | d3 | d4 | d5 | d6 | data |
|----|----|----|----|----|----|----|------|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 |
| 3 | 3 | 1 | 1 | 1 | 1 | 1 | 3 |
| 4 | 1 | 2 | 1 | 1 | 1 | 1 | 4 |
| 5 | 2 | 2 | 1 | 1 | 1 | 1 | 5 |
| 6 | 3 | 2 | 1 | 1 | 1 | 1 | 6 |
| 7 | 1 | 3 | 1 | 1 | 1 | 1 | 7 |
| 8 | 2 | 3 | 1 | 1 | 1 | 1 | 8 |
| 9 | 3 | 3 | 1 | 1 | 1 | 1 | 9 |
| 10 | 1 | 1 | 2 | 1 | 1 | 1 | 10 |

... 6D

```
> arr[,,,1,1,1]
```

```
, , 1
```

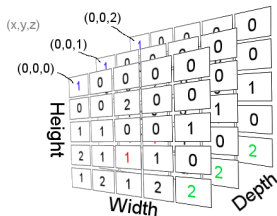
| | [,1] | [,2] | [,3] |
|------|------|------|------|
| [1,] | 1 | 4 | 7 |
| [2,] | 2 | 5 | 8 |
| [3,] | 3 | 6 | 9 |

```
, , 2
```

| | [,1] | [,2] | [,3] |
|------|------|------|------|
| [1,] | 10 | 13 | 16 |
| [2,] | 11 | 14 | 17 |
| [3,] | 12 | 15 | 18 |

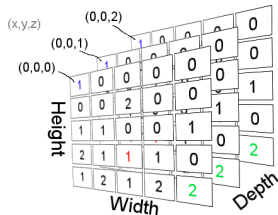
Characteristics

- *Arith* re-defined to always return an *FLQuant*



Characteristics

- *Arith* re-defined to always return an *FLQuant*
- Dimensions are not dropped even if of length=1



Methods

