grid-strategy Documentation

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CHAPTER 1

Code Documentation

Implementations of the GridStrategy class to easily graph multiple plots.

This is the code documentation for the implementation of 'SquareStrategy' and 'RectangularStrategy'.

1.1 SquareStrategy

class grid_strategy.strategies.**SquareStrategy**(*alignment='center'*)

classmethod arrange_rows(*n*, *x*, *y*)
Given a grid of size (x x y) to be filled with n plots, this arranges them as desired.

Parameters

- **n** – The number of plots in the subplot.
- **x** – The number of columns in the grid.
- **y** – The number of rows in the grid.

Returns Returns a `tuple` containing a grid arrangement, see `get_grid()` for details.

classmethod get_grid_arrangement(*n*)
Return an arrangement of rows containing n axes that is as close to square as looks good.

Parameters **n** – The number of plots in the subplot

Returns Returns a `tuple` of length `nrows`, where each element represents the number of plots in that row, so for example a 3 x 2 grid would be represented as `(3, 3)`, because there are 2 rows of length 3.

Example:

```
>>> GridStrategy.get_grid(7)
(2, 3, 2)
```

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```
>>> GridStrategy.get_grid(6)
(3, 3)
```

classmethod stripe_even(*n_more*, *more_val*, *n_less*, *less_val*)
Prepare striping for an even number of rows.

Parameters

- **n_more** – The number of rows with the value that there's more of
- **more_val** – The value that there's more of
- **n_less** – The number of rows that there's less of
- **less_val** – The value that there's less of

Returns Returns a `tuple` of striped values with appropriate buffer.

classmethod stripe_odd(*n_more*, *more_val*, *n_less*, *less_val*)
Prepare striping for an odd number of rows.

Parameters

- **n_more** – The number of rows with the value that there's more of
- **more_val** – The value that there's more of
- **n_less** – The number of rows that there's less of
- **less_val** – The value that there's less of

Returns Returns a `tuple` of striped values with appropriate buffer.

1.2 RectanglularStrategy

class grid_strategy.strategies.**RectangularStrategy**(*alignment='center'*)
Provide a nearest-to-square rectangular grid.

classmethod get_grid_arrangement(*n*)
Retrieves the grid arrangement that is the nearest-to-square rectangular arrangement of plots.

Parameters **n** – The number of subplots in the plot.

Returns Returns a `tuple` of length `nrows`, where each element represents the number of plots in that row, so for example a 3 x 2 grid would be represented as `(3, 3)`, because there are 2 rows of length 3.

CHAPTER 2

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