The subfigmat package*

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defines an array/matrix-type environment for subfigures and subtables of the form,

```
\begin{subfigmatrix}{NC}
  \subfigure[]{..}
   ...
\end{subfigmatrix}
```

where ⟨*NC*⟩ is the number of subfigures per row (i. e., the number of columns). the subfigures are ordered from left-to-right, then top-to-bottom.

the environment is used within a float environment such as `figure` or `table`. each subfigure should have a variable width tied to the local `\linewidth` value so each can be shrunk or expanded to accomate the requested layout.

The environment does not require "square" matrices since it only works on a row-by-row basis; thus you could have a 2×4, a 1×3, or a 4×2 if you so choose. if you neglect to give it a full row, such as the case of a 3×3 matrix with only 8 elements, it simply fills the rows from left to right until it runs out of elements.

1 further example:

if you wanted to create a figure with four subfigures in a tiled or matrix format of 2×2, the following would suffice,

```
\begin{figure}
  \begin{subfigmatrix}{2}
    \subfigure[]{...}
    \subfigure[]{...}
    \subfigure[]{...}
```

*This manual corresponds to subfigmat.sty v1.0, dated 27 Feb 1999.

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```
    \subfigure[]{...}
  \end{subfigmatrix}
  \caption{Example.}
  \label{f:eg}
\end{figure}
```

the result would look similar to the following,

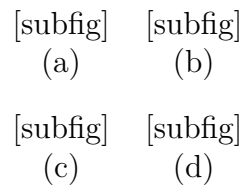

Figure 1: Example.

2 notes:

comments, bugs, fixes can be sent to `w.l.kleb@larc.nasa.gov`. what becomes of them is another story. ;)

each subfigure is placed within a `minipage` of the proper width to fit $\langle NC \rangle$ subfigures within the current float's `\linewidth`, accounting for $2 \times$ `\tabcolsep`'s worth of space between each adjacent subfigure.

`\linewidth` is a fairly general length. it is equal to `\textwidth` for single-column formats, `\columnwidth` for multiple-column documents (and also single-column documents), or according to a `\parbox` or `minipage` environment.

if you are using the graphicx package, the subfigure widths are automatically set to the local `\linewidth`.

the separation between figures can be changed via the `\sfmcolsep` variable, e. g.,

```
\setlength{\sfmcolsep}{\hspace{0.2in}}
```

to set a "hard" inter-column spacing as opposed to the default behavior of tying the inter-column spacing to the documents tabular column spacing (`\tabcolsep`}.

3 to do:

- transposed ordering: from top-to-bottom, then left-to-right.

4 history:

25 Feb 1999 Bil Kleb <w.l.kleb@larc.nasa.gov> [v1.0]
Edited for Arseneau-style release to CTAN. Changed `\sfm@colsep` to a more user-tunable `\sfmcolsep`.

27 Feb 1997 Bil Kleb <w.l.kleb@larc.nasa.gov>
Minor changes.

27 Feb 1997 Steven Douglas Cochran <sdc+@cs.cmu.edu>
Created.

24 Feb 1997 Bil Kleb <w.l.kleb@larc.nasa.gov>
Posted question to news:comp.text.tex.

5 distribution: