

## Wolfram Language and *LATEX*...

```
mat = MatrixForm[Table[Sin[jx^i + iy^j], {j, 1, 5}, {i, 1, 5}]];
```

```
Print[mat];
```

$$\begin{pmatrix} \sin[x + y] & \sin[x^2 + 2y] & \sin[x^3 + 3y] & \sin[x^4 + 4y] & \sin[x^5 + 5y] \\ \sin[2x + y^2] & \sin[2x^2 + 2y^2] & \sin[2x^3 + 3y^2] & \sin[2x^4 + 4y^2] & \sin[2x^5 + 5y^2] \\ \sin[3x + y^3] & \sin[3x^2 + 2y^3] & \sin[3x^3 + 3y^3] & \sin[3x^4 + 4y^3] & \sin[3x^5 + 5y^3] \\ \sin[4x + y^4] & \sin[4x^2 + 2y^4] & \sin[4x^3 + 3y^4] & \sin[4x^4 + 4y^4] & \sin[4x^5 + 5y^4] \\ \sin[5x + y^5] & \sin[5x^2 + 2y^5] & \sin[5x^3 + 3y^5] & \sin[5x^4 + 4y^5] & \sin[5x^5 + 5y^5] \end{pmatrix}$$

```
Clear[x, y, z]
```

```
picture = Show[
```

```
ContourPlot3D[{z == xy, x + y == 1, z == 0}, {x, -1, 2}, {y, -1, 2}, {z, -1, 2}], RegionPlot3D[z <= xy & &
```

```
{x, -1, 2}, {y, -1, 2}, {z, -1, 2}, PlotPoints -> 50]
```

```
]
```

