

MATH 1070. Intro. Computational Science

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Outline Lecture n+1 (Monday 22 August 2005)

• I/O: load and save

For ascii files:

```
a=[12 23 5; 2 -4 4];  
save mydata.txt a -ascii  
  
% to load the data  
a=load('mydata.txt')
```

NB: if you type load mydata.txt, MATLAB saves the data into a variable called mydata.

For binary files:

```
a=[12 23 5; 2 -4 4];  
save filename a
```

Saves variable a in the file *filename.dat* (MATLAB proprietary format).

```
% to load the data  
load filename
```

• I/O: the Import Wizard

Accessible from **Import Data** in the **File** menu.

Open the data file

Select the delimiter (space, ‘,’, ‘;’ ...) if necessary; click **Next**

Select the variable you want to import

Click **Finish**

• Visualisation in MATLAB

1D: plot, plotyy, semilogy, loglog, polar, fplot, etc

2D: meshgrid, mesh, surf, etc

3D: see MATH4205 or COMP3000

• References

Edward Tufte

The visual display of quantitative Information, Graphics Press

Howard Wainer

Visual revelations, Copernicus - Springer Verlag