

Saving data

Saving all variables and other settings in workspace:

```
>> save HW1_workspace
```

Makes a file `HW1_workspace.mat`.

Note the `.mat` extension! Readable by MATLAB, NOT other programs (try opening with text editor).

Then, can easily reload these:

```
>> clear all
```

```
>> load HW1_workspace
```

```
>> whos
```

Name	Size	Bytes	Class	Attributes
A13	50x1	400	double	
A14	50x1	400	double	
A15	50x1	400	double	

To save for another application, OR FOR SCORELATOR:

The below saves ONE variable (i.e., matrix, vector) at a time.

```
>> clear all
>> Alist=1:4
```

```
Alist =
```

```
     1     2     3     4
```

```
>> save A1.dat Alist -ascii
```

NOW, IS more compatible with other programs, INCLUDING SCORELATOR (try opening with text editor).

The correct syntax is as follows: `save filename.dat variable_name -ascii` (this is reversed in notes 301.pdf)

Type `help save` for help!

Loading is similar:

```
>> clear all
```

```
>> load A1.dat
```

```
>> whos
```

Name	Size	Bytes	Class	Attributes
A1	1x4	32	double	

```
>> A1
```

```
A1 =
```

```
    1    2    3    4
```

NOTE!!! You will can also be given .dat files from elsewhere, and will need to load them into MATLAB using the similar commands.