

# File (1A)

---

Copyright (c) 2015 Young W. Lim.

Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.2 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

Please send corrections (or suggestions) to [youngwlim@hotmail.com](mailto:youngwlim@hotmail.com).

This document was produced by using OpenOffice.

# Simple File I/O

```
octave:15> A = [1, 2, 3; 4, 5, 6];
```

```
octave:16> B = [10, 20; 30, 40];
```

```
octave:17> save "t.dat" A
```

```
octave:18> save "t.dat" B
```

overwrite

```
octave:19> save "s.dat" A, B
```

do not use “,”

```
B =
```

```
10 20
```

```
30 40
```

```
octave:20> save "s.dat" A B
```

A & B are written

# Octave File Format

## "t.dat"

```
# Created by Octave 3.8.1, Thu Sep 17 20:35:34
2015 KST <young@Young-System>
# name: B
# type: matrix
# rows: 2
# columns: 2
10 20
30 40
```

## "s.dat"

```
# Created by Octave 3.8.1, Thu Sep 17 20:36:58
2015 KST <young@Young-System>
# name: A
# type: matrix
# rows: 2
# columns: 3
1 2 3
4 5 6

# name: B
# type: matrix
# rows: 2
# columns: 2
10 20
30 40
```

# Load and Save

```
octave:20> save "s.dat" A B
```

```
octave:21> load "s.dat"
```

```
octave:22> A
```

```
A =
```

```
 1  2  3  
 4  5  6
```

```
octave:23> B
```

```
B =
```

```
10  20  
30  40
```

```
octave:24>
```

# C Style I/O

```
octave:25> fid = fopen("u.dat", "w");      1 4 2 5 3 6
octave:26> fprintf(fid, " %d ", A);
octave:27> fclose(fid);
```

```
octave:28> A
A =
```

```
 1  2  3
 4  5  6
```

```
octave:29> fid = fopen("u.dat", "w");      1 4
octave:30> fprintf(fid, " %d %d \n", A);   2 5
octave:31> fclose(fid);                   3 6
```

# Load and Save

```
octave:20> save "s.dat" A B
```

```
octave:21> load "s.dat"
```

```
octave:22> A
```

```
A =
```

```
 1  2  3  
 4  5  6
```

```
octave:23> B
```

```
B =
```

```
10  20  
30  40
```

```
octave:24>
```

## References

- [1] Octave Manual