Importing Data: Supplementary Information

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Reading Binary Files

- Matlab is capable of reading binary files
- In many cases, there is a command for reading a particular type of file (image files, for example)
- The following low-level commands are available:
  ◦ **FOPEN** - Open a file
  ◦ **FREAD** - Binary file read
  ◦ **FWRITE** - Binary file write
  ◦ **FTELL** - Return the current file position
  ◦ **FSEEK** - Set file position indicator
  ◦ **FCLOSE** - Close a file

Sample Script (write and read)

```
%write file
fid = fopen('square_mat.bin','wb')
fwrite(fid, 'This is a square matrix', 'char');
fwrite(fid, [1 2 3; 4 5 6; 7 8 9]', 'int32');
fclose(fid);

%read in the same file
fid = fopen('square_mat.bin','rb')
bintitle = fread(fid, 23, 'char');
title = char(bintitle')
data = fread(fid, [3 inf], 'int32')
data_tranpose = data'
fclose(fid)
```

Questions?