#### In this lecture, we will discuss...

- ♦ Reading and writing to files
- ♦ Exceptions
- ♦ Reading values from environment variables



### Reading from File

```
File.foreach( 'test.txt' ) do |line|
                                                         test.txt
  puts line
  p line
                                                       The first line of the file
  p line.chomp # chops off newline character
                                                       And the second
  p line.split # array of words in line
                                                       Third
end
      The first line of the file
       "The first line of the file\n"
       "The first line of the file"
       ["The", "first", "line", "of", "the", "file"]
                                                                        Output
       And the second
       "And the second\n"
       "And the second"
       ["And", "the", "second"]
       Third
       "Third"
       "Third"
       ["Third"]
```



# Reading from Non Existing File



# Handling Exceptions

```
begin
        File.foreach( 'do_not_exist.txt' ) do |line|
          puts line.chomp
  5
        end
  6
      rescue Exception => e
  8
        puts e.message
        puts "Let's pretend this didn't happen..."
 10
      end
 11
No such file or directory @ rb_sysopen - do_not_exist.txt
Let's pretend this didn't happen...
```



### Alternative to Exceptions

```
if File.exist? 'test.txt'
File.foreach( 'test.txt' ) do |line|
   puts line.chomp
  end
end
```



## Writing to File

The file is automatically closed after the block executes



#### **Environment Variables**

If needed, revisit Module 1 on how to setup environment variables for your Operating System

```
puts ENV["EDITOR"] # => subl
```



#### Summary

- ♦ Files automatically closed at the end of the block
- ♦ Either use exception handling or check for existence of the file before accessing

#### What's next?

♦ Strings and Symbols

