

ENSF 593/594

4 – A Few Recommendation on Programming Style

A Few Recommendation

- Write short methods
 - Keep methods short.
- Keep lines short
 - Avoid lines longer than 80 characters, since they're not handled well by many terminals and tools.
- Classes start with uppercase letter
`public class SomeClass { ... }`
- Constants use all caps
`public static final double SOME_CONSTANT = 999;`
- Everything else starts with lowercase letter
 - Instance variables, local variables, parameters to methods, package names

A Few Recommendation

– Variables should be declared in the innermost block that encloses all uses of the variable.

- E.g., if variable is only used inside if statement, declare it inside if statement.

- Good:

```
if (...) {  
    double d = fun1(...);  
    fun2(d);  
} else {  
    // No use of d  
}
```

- Bad

```
double d = 0;  
if (...) { ... } else { ... }
```

A Few Recommendation

- Always use braces for selection or repetition statements
 - Even if there is only one thing to do
 - **Good**

```
if (...) {  
    fun();  
}
```
 - **Bad:**

```
if (...)  
    fun();
```
- Exception
 - If there is only one thing to do *and* it is all on one line

```
if (...) fun();
```