

-ER

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Lecture #5 out of 8
90 minutes

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Examples and Alternatives

Read and Watch



“When you need a manager, it’s often a sign that the managed are just plain old data structures and that the manager is the smart procedure doing the real work”

— Carlo Pescio

Your Coding Conventions Are Hurting You, 2011

Chapter #1:

Examples and Alternatives

[[Parser](#) Reader Controller Manager]

Parser

```
1 class Parser {  
2     static int parseInt(String t) {  
3         // Parse String into Integer  
4     }  
5     static float parseFloat(String t) {  
6         // Parse String into Float  
7     }  
8     // And many more methods...  
9 }  
10  
11 int x = Parser.parseInt("42");
```

```
1 class StringAsInt implements Number {  
2     private final String txt;  
3     StringAsInt(String t) { this.txt = t; }  
4     @Override int intValue() {  
5         // Parse String into Integer  
6         // and return the value  
7     }  
8 }  
9  
10 Number n = new StringAsInt("42");  
11 int x = n.intValue();
```

Reader

```
1 class Reader {
2     static char readChar(InputStream i) {
3         // Read the next char from the
4         // stream and return it, or NULL
5         // if the stream is at the EOF
6     }
7 }
8
9 InputStream i = new FileInputStream(..);
10 char c = Reader.readChar(i);
```

```
1 class CharStream {
2     private final InputStream is;
3     CharStream(InputStream i)
4         this.is = i;
5     char next() {
6         // Read the next char from the
7         // stream and throw exception
8         // if !exists()
9     bool exists() {
10         // Return TRUE if not EOF
11
12     InputStream i = new FileInputStream(..);
13     CharStream chars = new
14         ↪ CharStream(i);
15     char c = chars.next();
```


Controller

```
1 class SimpleController {
2     @GET
3     @Path("/index")
4     HttpResponse index(HttpRequest e) {
5         // Build an index page and return
6     }
7     @POST
8     @Path("/update")
9     HttpResponse update(HttpRequest e) {
10        // Save new user information
11        // and return HTTP 303
12    }
13 }
```

```
1 class IndexPage implements HttpPage
2     HttpResponse process(HttpRequest e) {
3         // Build an index page and return
4     }
5 class UpdatePage implements HttpPage
6     HttpResponse process(HttpRequest e) {
7         // Save new user information
8         // and return HTTP 303
9     }
10
11 new AllPages(
12     new IndexPage(),
13     new UpdatePage()
14 );
```


[Parser Reader Controller [Manager](#)]

Manager

```
1 class Manager {
2     parseInt(String t) {
3         // Parse String into Integer
4     }
5     static float parseFloat(String t) {
6         // Parse String into Float
7     }
8     // And many more methods...
9 }
10
11 int x = Parser.parseInt("42");
```

```
1 class StringAsInt implements Number {
2     private final String txt;
3     StringAsInt(String t) { this.txt = t; }
4     @Override int intValue() {
5         // Parse String into Integer
6         // and return the value
7     }
8 }
9
10 Number n = new StringAsInt("42");
11 int x = n.intValue();
```

Chapter #2:

Read and Watch

Don't Create Objects That End With -ER by me