

Parallel Programming

Exceptions --- Examples

Thomas Gross

Spring Semester 2010

Mar 4, 2010

Martin Lanter
Javimka im Inforum

lanterm@student.ethz.ch
www.lantersom.ch

www.java-forum.org

Solution of assignment 1

```
class Example1 {  
    /* baseline */  
    public static void main(String[] args) {  
        int i;  
        int tmp;  
        /* iterate through the argument vector */  
        for (i = 0; i < args.length; i++) {  
            tmp = Integer.parseInt(args[i]) + 1;  
            System.out.println(tmp); /* print out the result */  
        }  
    }  
}
```

/*

This program takes any number of integer arguments and increases each of them by 1. It then outputs them line by line.

This source code is intellectual property of *.**

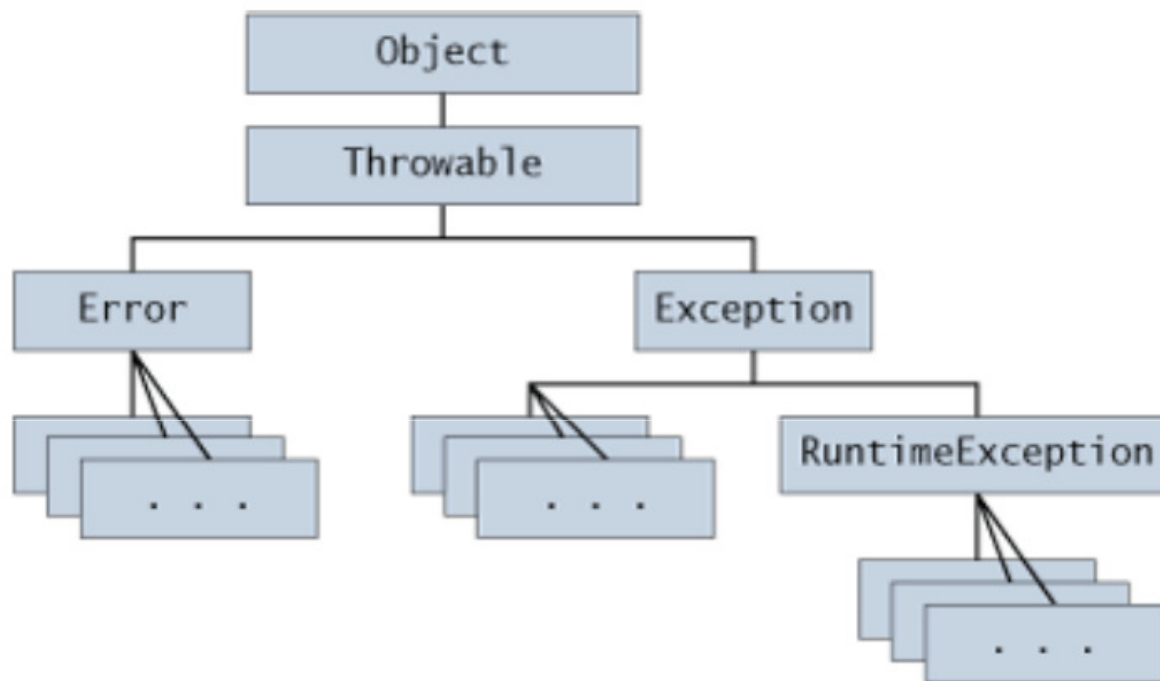
All attempts to copy, modify and/or redistribute this file will be prosecuted. Trespassers will be shot, survivors will be shot again.

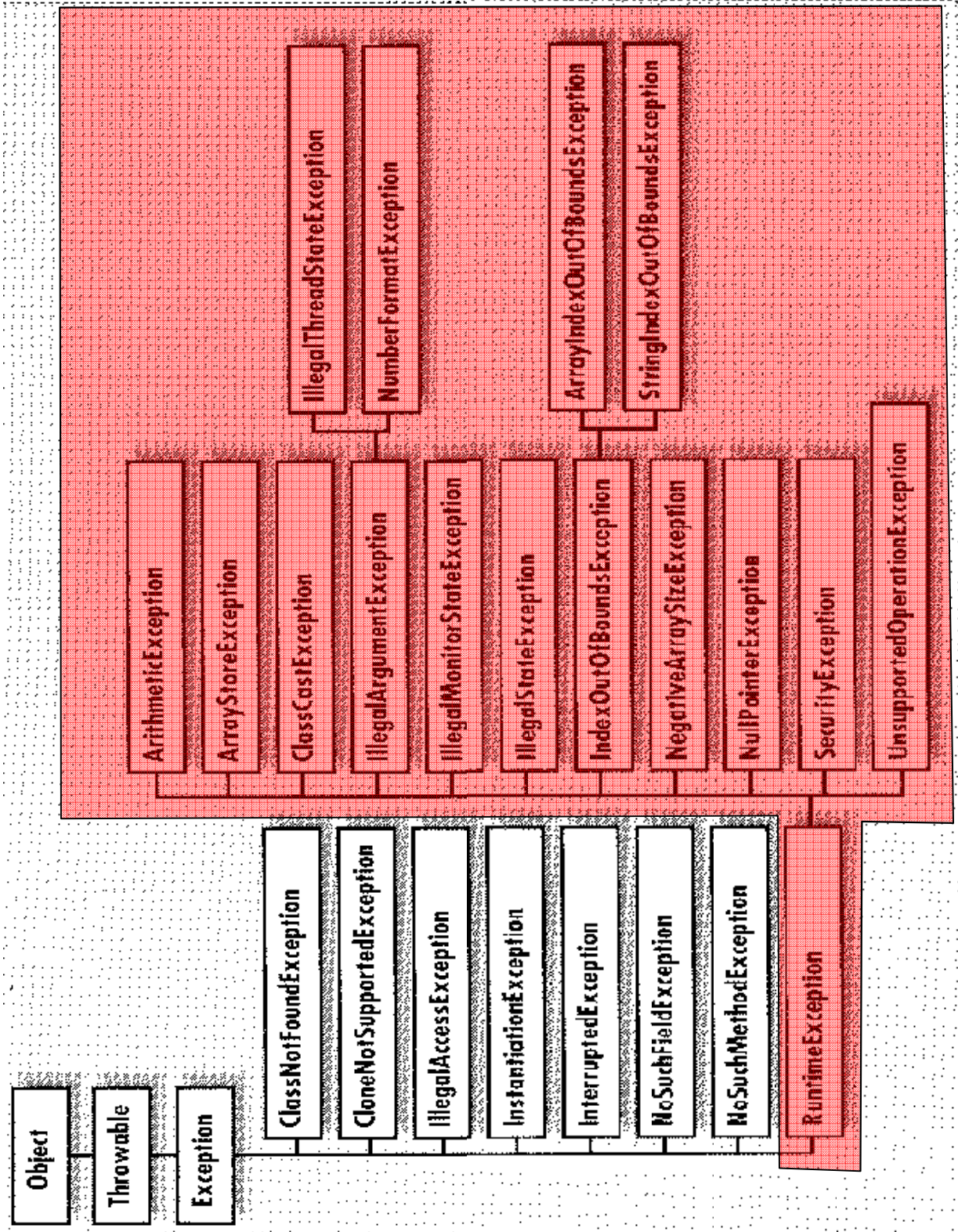
Don't f* with the source or the source will f*** you.**

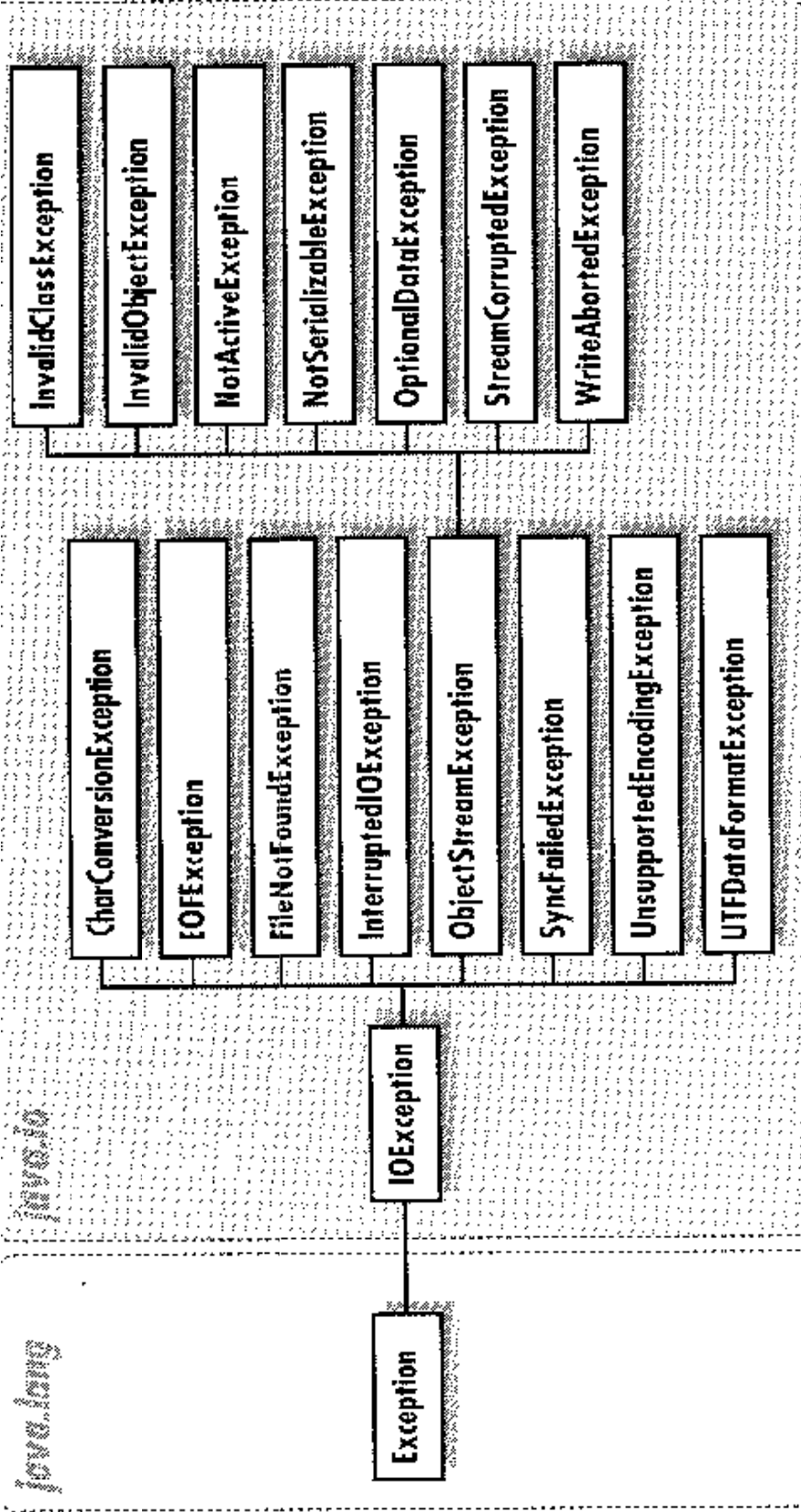
Polymorphic code rulez the world. You will never know.

***/**

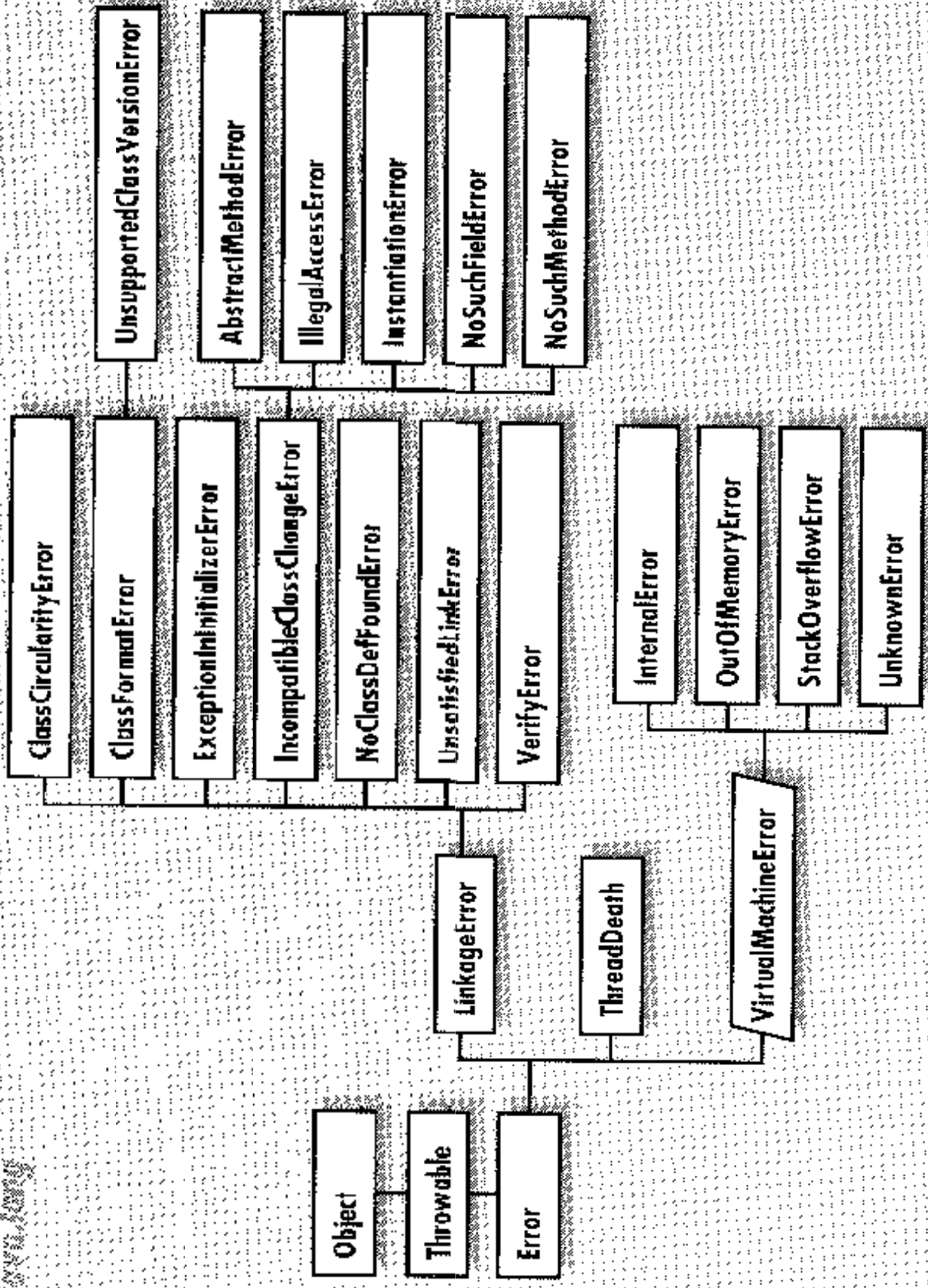
```
public class Assignment1 {  
    public static void main(String[] args) {  
        for (int i = 0; i < args.length; i++) {  
            System.out.println(Integer.parseInt(args[i])+1);  
        }  
    }  
}
```







www.javatpoint.com



Example 2

```
class Example2 {
    public static void main(String[] args) {
        int i;
        int tmp;
        /* iterate through the argument vector */
        for (i = 0; i < args.length; i++) {
            try {
                tmp = Integer.parseInt(args[i]);
                if (tmp < 0) {
                    throw(new MyException("less than zero"));
                }
                System.out.println(tmp);
            }
        }
    }
}
```

Example 2

```
        catch (MyException e) {
            System.out.println("Exception caught ...");
            System.out.println(e.getMessage());
        }
    }
    System.out.println("done.")
}

class MyException extends Exception {
    MyException(String text) {
        super(text);
    }
}
```

Example2

Input: 8, 3, 11, -4, 6, -7, 2, 0

Output:

8

3

11

Exception caught ...

less than zero

6

Exception caught ...

less than zero

2

0

done.

Example 5

```
class Example5 {  
  
    public static void main(String[] args) {  
  
        int i;  
        int tmp;  
        int count = 0;  
  
        try {  
            /* iterate through the argument vector */  
            for (i = 0; i < args.length; i++) {
```

Example 5

```
try {
    tmp = Integer.parseInt(args[i]);
    if (tmp < 0) {
        throw(new MyException1("less than zero"));
    }
    System.out.println(tmp);
} catch (MyException1 e) {
    System.out.println("Exception1 caught ...");
    System.out.println(e.getMessage());
    count++;
    if (count >= 3) {
        throw(new MyException2 ());
    };
};
```

Example 5

```
        finally {
            System.out.println("Processed one integer");
        }
    }
} catch (MyException2 e) {
    System.out.println("Exception2 caught");
    System.out.println("Enough.");
}
finally {
    System.out.println("done.");
}
}
```

Example 5

```
class MyException1 extends Exception {  
    MyException1(String text) {  
        super(text);  
    }  
}
```

```
class MyException2 extends Exception {}
```


Example5

Input: 8, 3, -11, -4, 5, -2, 6

Output:

8
Processed one integer
3
Processed one integer
Exception1 caught ...
less than zero
Processed one integer
Exception1 caught ...
less than zero
Processed one integer
5
Processed one integer
Exception1 caught ...
less than zero
Processed one integer
Exception2 caught
Enough.
done.