# Java Objects Part 2 Notes

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### 1 constants

- Are named IN\_CAPITALIZED\_SNAKE\_CASE
- Can be done using *static* keyword
- Allows variables and methods to be exponsed without instantiation

```
public class PezDispenser {
    public static final int MAX_PEZ = 12; // <- 1. static declared here :)
    ...
}</pre>
```

Listing 1: lesson\_1/PezDispenser.java

Listing 2: lesson\_1/Example.java

### Notes:

- Files can be compiled and displayed by typing javac Example.java && java Example in terminal

### 2 Exercise 1

• Solution included in exercise\_1.java

# 3 Filling the Dispenser

• void keyword means nothing is returned at the end of a method

```
public class PezDispenser {
    public void fill() { // <- This little guy here :)
        this.pezCount = MAX_PEZ;
        System.out.printf("The current count of delicious PEZ is % d\n", this.pezCount);
    }
}</pre>
```

Listing 3: lesson\_3/PezDispenser.java

Listing 4: lesson\_3/Example.java

### Notes:

- Files can be compiled and displayed by typing javac Example.java && java Example in terminal
- Always start with private methods, and turn to public when needed.

## 4 Exercise 2

• Solution included in exercise\_2.java

# 5 Abstraction at Play

- Golden Rule Don't make users understand object internally
  - Simple questions such as 'is it empty?' is sufficent

```
public class PezDispenser {
    public boolean isEmpty() { // <- This little guy here :)
        return this.pezCount == 0;
}

...
}
</pre>
```

Listing 5: lesson\_5/PezDispenser.java

```
import java.io.Console;
      public class Example {
3
          public static void main(String[] args) {
5
               if (dispenser.isEmpty()) {
6
                   System.out.printf("Dispenser is empty"); // <- 2. with
7
      this little fellow here
              }
9
              if (!dispenser.isEmpty()) {
11
                   System.out.printf("Dispenser is full\n"); // <- 3. and
12
      this guy as well
13
14
          }
      }
16
```

Listing 6: lesson\_5/Example.java

### Notes:

- Files can be compiled and displayed by typing javac Example.java && java Example in terminal