

# Managing and Configuring Logging



**Maaike van Putten**

Lead Trainer & Software Developer

@brightboost | [www.brightboost.nl](http://www.brightboost.nl)



# Overview



- Organizing our logging
- Logging to a file
- Log formatters
- Log filters
- Log Manager and configuration
- Happy client Carved Rock Fitness





**Great we have logging**

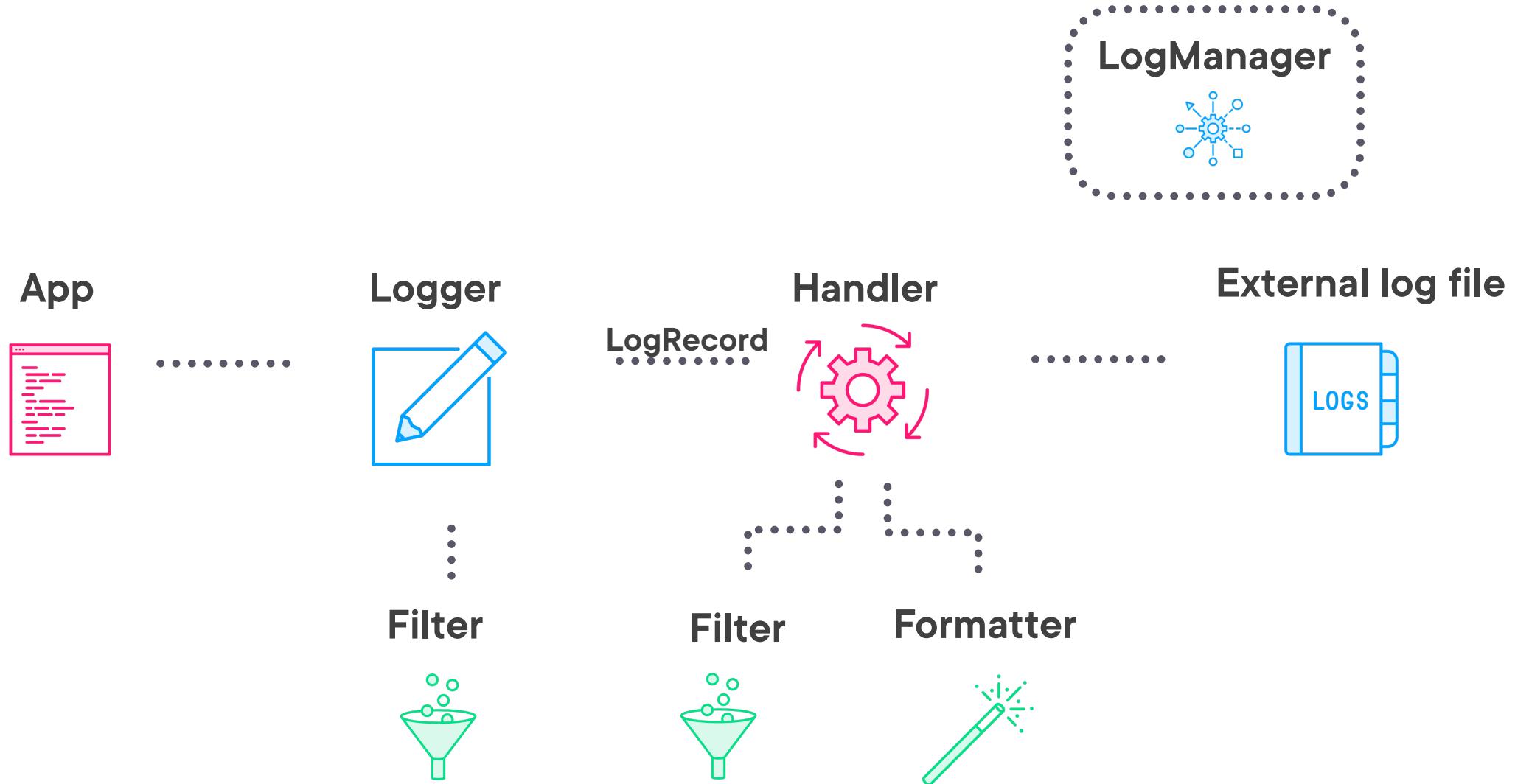
**But oh oh... It's a mess!**

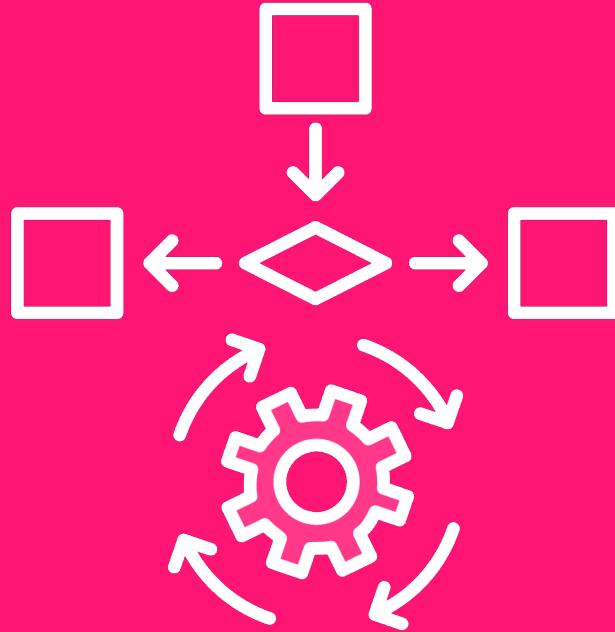
**And it's not even logging to a file...**

**Change our logging so that it's logging to a file**



# Overview Java Logging





## Log Formatters

Log formatters change the structure of the log message.



# Built-in Formatters



**SimpleFormatter**  
**Human readable way of depicting  
the log message**



**XMLFormatter**  
**Write the log message to standard  
XML format**

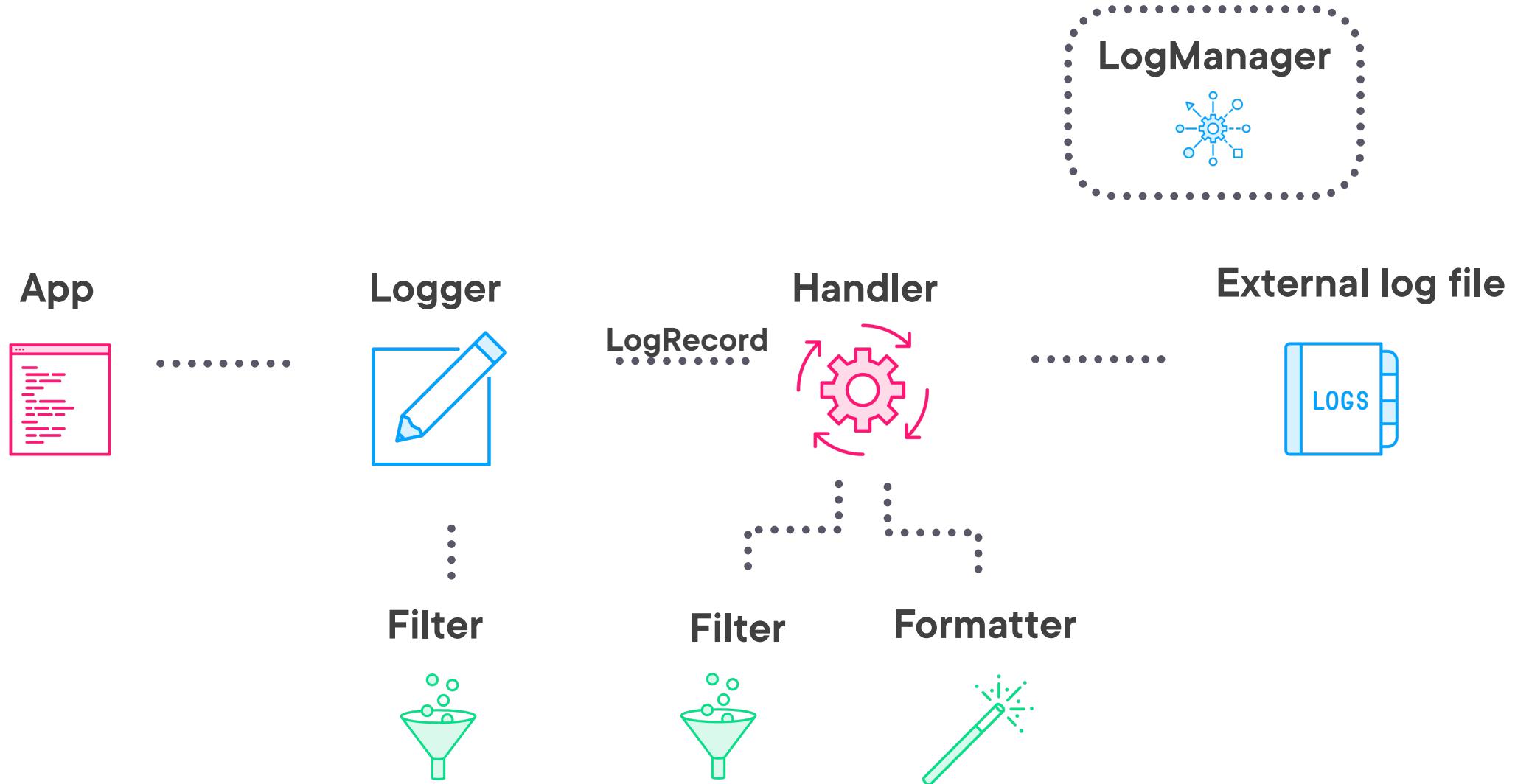




**Change our formatter**



# Overview Java Logging



```
Filter filterAll = s -> false;  
fileHandler.setFilter(filterAll);
```

## Logging Filter

**Filter is an interface. The isLoggable method must be implemented. If it returns true for a certain log message, it will be sent to the handler and will be logged. If it returns false, it will be ignored.**

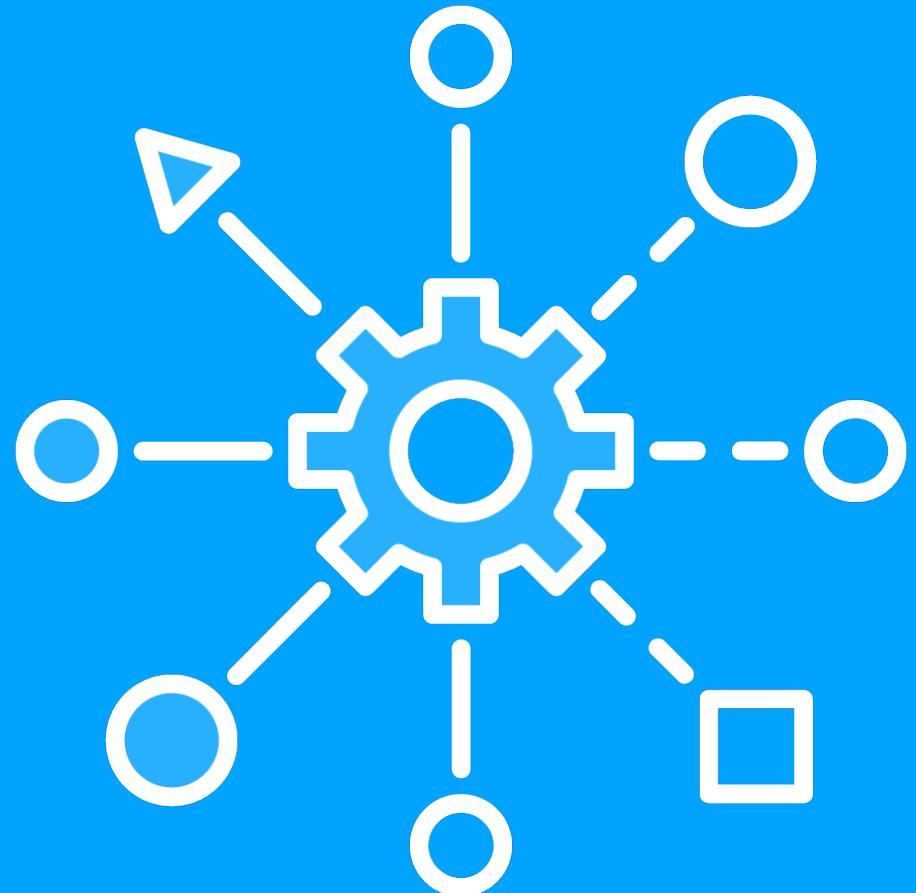
**Filter can be set on the logger.**





**Add filtering**





## LogManager

The LogManager is the class responsible for managing the logger hierarchy. It loads the configuration for all the loggers.



# Configuration File



**Load custom logging.properties**  
**Don't change the one in JRE home**  
**Custom file can be read by LogManager**

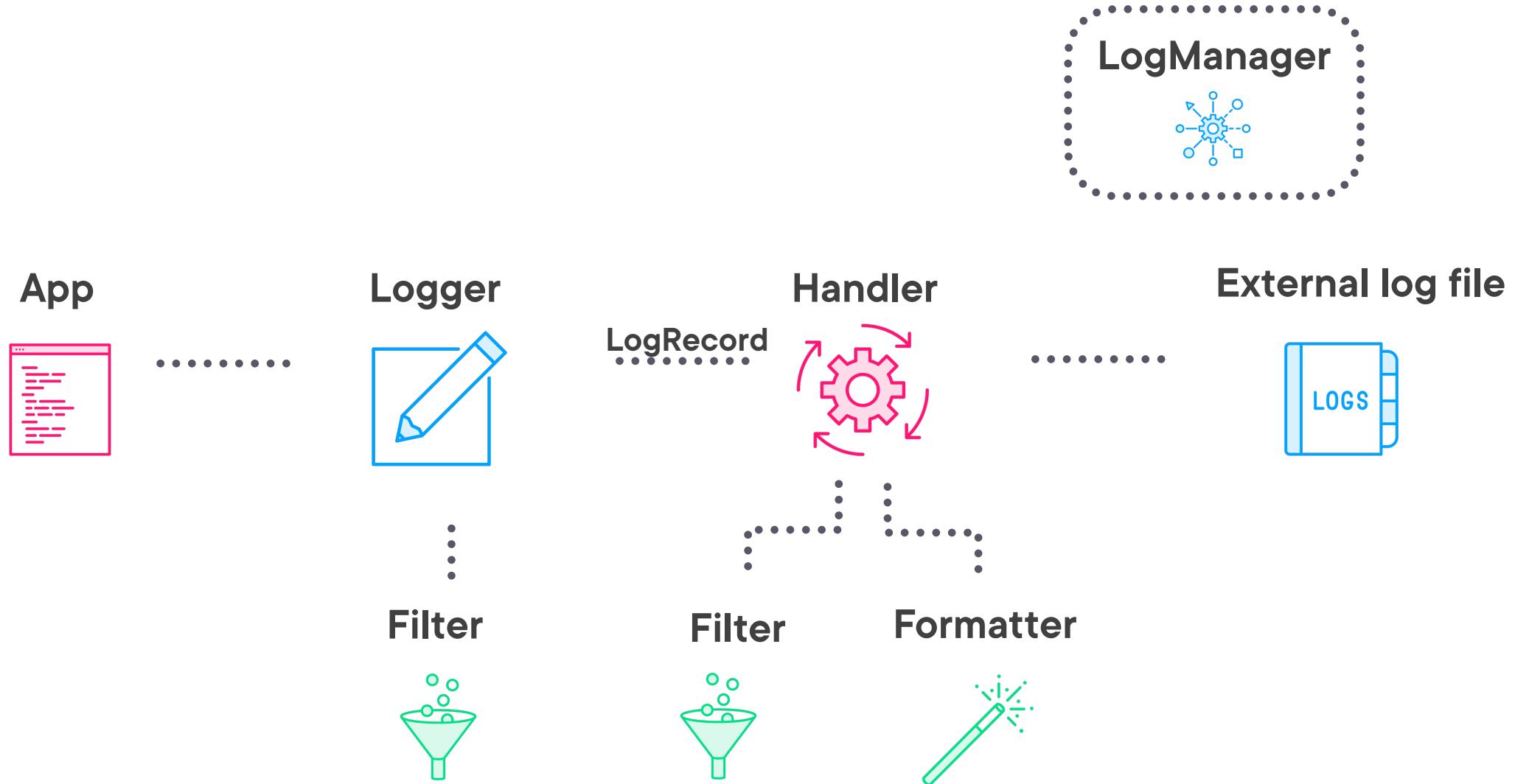




- Write custom configuration file
- Create a LogManager
- Use the custom configuration file



# Overview Java Logging



# Summary



- Organizing our logging
- Logging to a file
- Log formatters
- Log filters
- Log Manager and configuration
- Happy client Carved Rock Fitness



A photograph showing a group of diverse professionals in a conference setting, clapping and smiling. A woman in the foreground, wearing a grey cardigan over a patterned top, is looking towards the camera with a wide smile. Other people in the background are also clapping and smiling. A purple vertical bar is positioned on the left side of the text area.

Case closed.

**Up Next:**

# **Logging Best Practices**

---

