

# Guava Project

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# What is Guava?

- Open source Google's core libraries for Java based projects
- Contains utilities for collections, caching, primitives support, concurrency libraries, string processing, I/O, and so forth



# EventBus

- Publish-subscribe-style communication
- Improvement of observer pattern

```
class ChangeRecorder {  
    void setCustomer(Customer cust) {  
        cust.addChangeListener(new ChangeListener(){  
            public void customerChanged  
            (ChangeEvent e) {  
                recordChange(e.getChange());  
            }  
        });  
    }  
}
```

```
class EventBusChangeRecorder {  
    @Subscribe  
    public void recordCustomerChange  
    (ChangeEvent e) {  
        recordChange(e.getChange());  
    }  
}  
eventBus.register  
    (new EventBusChangeRecorder());
```

# My Improvements

- Improve logging/debugging capabilities
- Event bus works in multiple threads
- Reduce code duplication

# Thank you!

## Any questions?

<http://support.dce.felk.cvut.cz/osp/student/smetarom>

<https://code.google.com/p/guava-libraries/wiki/EventBusExplained>