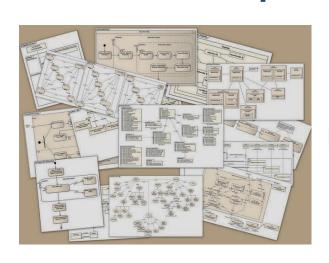


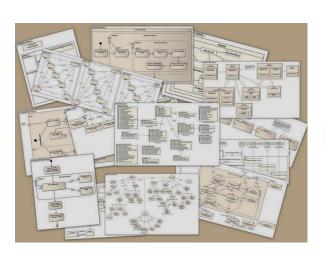
## **Implementation**



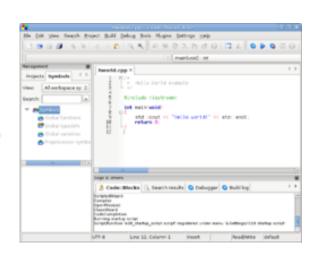




# Coding

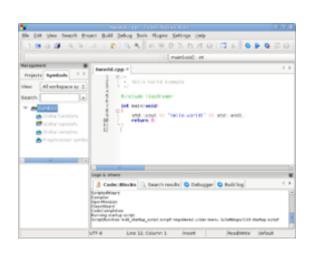








### **Ultimate Goal**







## Hand-Crafted Code





# Reuse



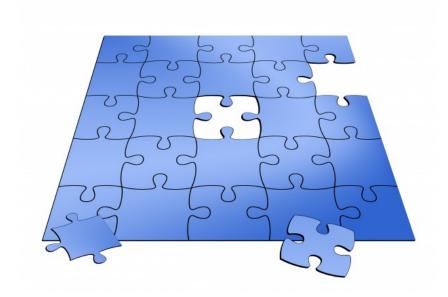


#### **Defect Prevention**

```
0_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I}^{I}_{I
```



# Component Reuse





### Framework Reuse





### Levels of Reuse

Clear box



Translucent box



Black box





### Next

Benefits and impediments to reuse