

**Bachelor Project in Compiler Construction**

# Kitty

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**Report from group GROUPNUMBER:  
STUDENT1, STUDENT2, STUDENT3, STUDENT4**

## **1 Introduction**

### **1.1 Clarifications**

### **1.2 Limitations**

### **1.3 Extensions**

### **1.4 Implementation Status**

## **2 Parsing and Abstract Syntax Trees**

### **2.1 The Grammar**

### **2.2 Use of the `flex` Tool**

### **2.3 Use of the `bison` Tool**

### **2.4 Abstract Syntax Trees**

### **2.5 Syntactic Sugar**

### **2.6 Weeding**

### **2.7 Test**

## **3 The Symbol Table**

### **3.1 Scope Rules**

### **3.2 Symbol Data**

### **3.3 The Algorithm**

### **3.4 Test**

## **4 Type Checking**

### **4.1 Types**

### **4.2 Type Rules**

### **4.3 The Algorithm**

### **4.4 Test**

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## **5 Resource Computations**

### **5.1 Resources**

### **5.2 The Algorithm**

## A Source Code