

# Semantics and Applications to Verification

Jérôme Feret, Josselin Giet, and Xavier Rival

Notes by Antoine Groudiev

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## Introduction

This document is Antoine Groudiev's class notes while following the class *Sémantique et applications à la vérification de programmes* (Semantics and Applications to Verification) at the Computer Science Department of ENS Ulm. It is freely inspired by the class notes of Xavier Rival.

## 1 Introduction to Semantics

### 1.1 Case studies

### 1.2 Approaches to verification

### 1.3 Orderings, lattices and fixpoints