It is desirable to have code which is known to be correct. This can be advantageous as it both reduces – or ideally eliminates – bugs and improves performance. Annotations can be used to help programmers reason about code and automatic verification tools to analyse it. This paper describes a proof-of-concept automatic code verifier for Java. Java Annotations are used to place properties on elements of a programme, such as pre- and post-conditions and invariants. The verifier reads in the programme bytecode and uses Satisfiability Modulo Theories (SMT) to verify the code. If annotations are present, they are used to place or check restrictions on programme elements. This enables modular verification, which is quicker and allows for incremental verification.