

# Planning Historical Developments

In this short review major planning and search developments are described

## STRIPS

STRIPS is an automated planner designed by Richard Fikes and Nils Nilsson. The automated planner goal was to find a series of operators in a space of models to alter an initial state into a model in which a given goal can be proven to be true. The impact of STRIPS in the artificial intelligence field was greater in terms of the representation language it created, which is very close to the “classical” planning language.

## PDDL

The PDDL was the first modeling language to be used widely for solving planning problems and it has remained the standard for the International Planning Competition since 1998.

The PDDL was primarily inspired by STRIPS (discussed above), and ADL (The Action Description Language), which is a simpler representation of STRIPS that allows to encode more realistic problems by relaxing some of the STRIPS restrictions.

## WARPLAN

WARPLAN is a planner written by David Warren which implements a solution known as goalregression planning to the interleaving problem. WARPLAN was the first planner to be written in a logic programming language (Prolog). The implementation of a planner using such language was able to showcase the great benefits in terms of reduced complexity that can be achieved by using logic programming languages. WARPLAN is only 100 lines of code.