Technical description

Our toy robot language is inspired by the tutorial at this link: <https://textx.github.io/textX/3.0/tutorials/robot/>

The purpose of the language is to allow developers of simple robots to define movement instructions for multiple robots in a simple single script. This is useful as researchers often use simple robots, and often multiple at the same time. The DSL described would help them program paths with ease.

Description:

A robot has an initial position in the form of x and y coordinates ranging from -100 to 100 and can move in four directions up, down, left and right. Per movement instruction a direction and its distance has to be defined. A distance cannot be negative and is confined by the range [0, 50]. Multiple movement instructions can be part of one robot but only one initial position may be defined.