# Introduction

## Description:

PyGooTrader is a framework to perform algorithmic trading and to automate various trading functions using Interactive Brokers RESTful API. PyGooTrader is intended to support multiple distributed applications that may or may not reside on the same host as the RESTful client (or even on the same network). Algorithms may be developed in any desired language that supports the messaging frameworks used (zeroMQ? ROS? ROS2? Others?). It will allow low-level operations via the command line and also “scripting” for more complicated functions.

## Major Features:

### Market Data Collection

Streaming market data is collected for a desired list of stocks, options, and futures contracts and stored in a database for use in analysis/backtesting.

### Live/Paper Trading Orders

Orders can submitted, executed, and tracked on multiple accounts using the same client (including paper trading).

### Trading Scripts

PyGooTrader supports development of algorithmic trading systems using Yakindu StateCharts or as stand-alone Python scripts.

### Distributed Operation

PyGooTrader supports the use of multiple messaging frameworks (ROS2, zeroMQ, etc) for communication between IB, a trading script, and other applications which may reside on the local host or a completely different network