

Introduction to RaspTank

1. About RaspTank

RaspTank is a kind of open source intelligent robot product that is intended for AI and robot lovers and students. It is also an open robot development platform based on Raspberry Pi with the following features:

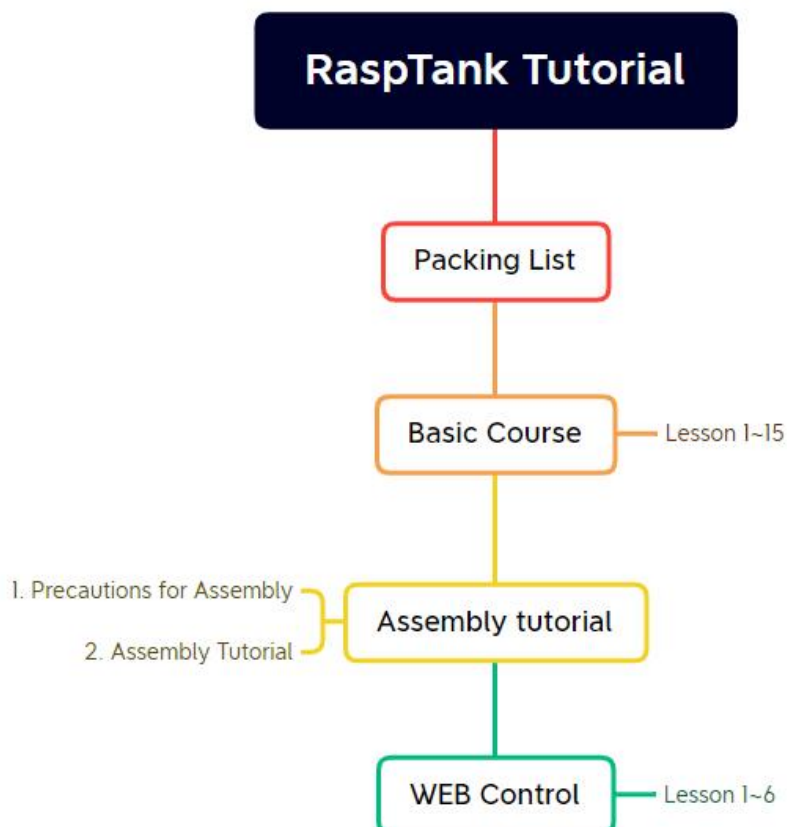
- **Easy to assemble:** modular structure design, open hardware list and detailed assembling tutorial.
- **Easy to learn:** provide complete and detailed development tutorials and sample code on algorithm and application.
- **Multi-configurations:** can be changed into different types of trolleys through different combinations, for example, the manipulator trolley and ultrasonic trolley.
- **Multi-functions:** automatic obstacle avoidance, color recognition, moving object detection, web remote control, lighting indicator, and line tracking with the tracking module.
- **Acrylic structure:** strong and durable.
- **Extensible:** extensible structure and DIY.
- **Web remote control:** the robot can be controlled by mobile phones, tablets, computers, windows, Linux, and Mac OS via Google Chrome browser.
- **Support Raspberry Pi in different versions:** support Raspberry Pi 3B, Raspberry Pi 3B+, Raspberry Pi 4 and Raspberry Pi 5.
- **Support Python.**

2. About The Tutorials

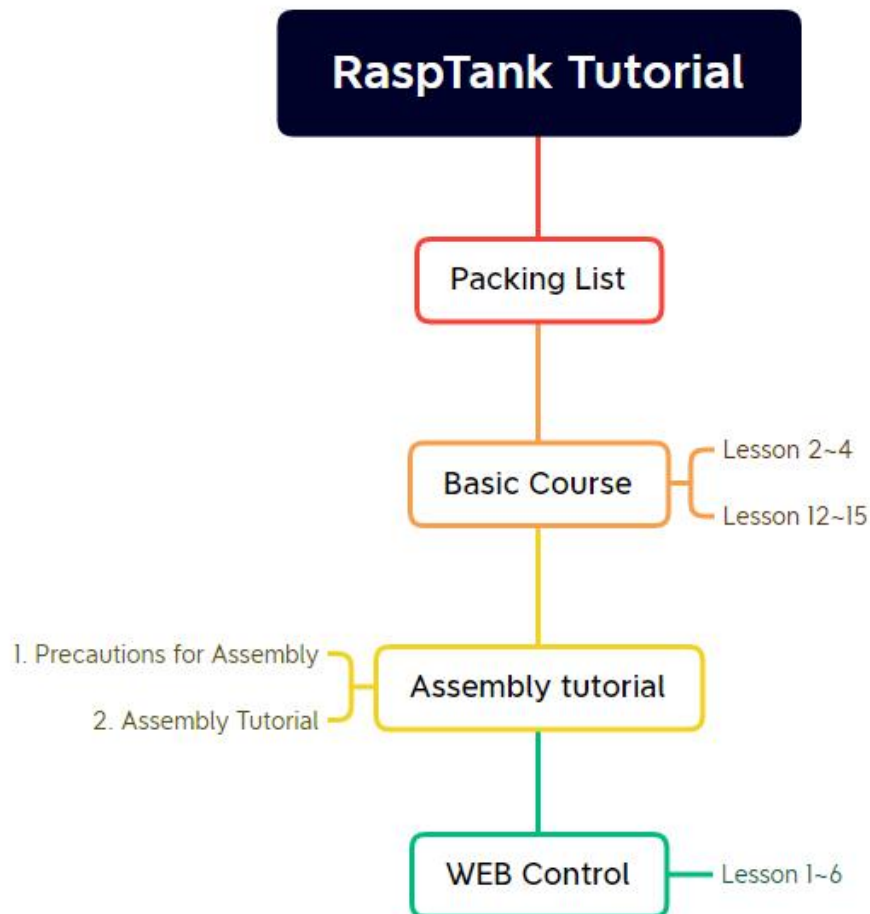
This documentation is for software installation and operation guide for the Python robot product. It describes every detail of the whole process of fulfilling the robot project by Python and Raspberry Pi from scratch as well as some precautions. Hope you can get started with the Raspberry Pi robot on Python and make more creations with this documentation.

According to the different situations of different users, there will be some changes in the process of this document, you can refer to the following process:

- **Novice use flowchart:** Suitable for users who are new to Raspberry Pi or want to learn more about the functions of parts.



- Flow chart for users familiar with Raspberry Pi or **want to make this robot quickly:**



3. Resources Links

[RobotName]: Adeept RaspTank

[Item Code]: ADR013 (V4.0)

[RobotURL]: https://github.com/adeept/adeept_rasptank2

[RobotGit]: https://github.com/adeept/adeept_rasptank2.git

[Official Raspberry Pi website]: <https://www.raspberrypi.org/downloads/>

[Official website]: <https://www.adeept.com/>

[GitHub]: https://github.com/adeept/adeept_rasptank2/

4. About Adeept

Adeept was founded in 2015 and is a company dedicated to open source hardware and STEM education services. The Adeept technical team continuously develops new technologies, uses excellent products as technology and service carriers, and provides comprehensive tutorials and after-sales technical support to help users combine learning with entertainment. The main products include various learning kits and robots for Arduino, Raspberry Pi, ESP32 and BBC micro:bit. Adeept is committed to providing users with high-quality STEM education products, services and technical support.

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