

The Team

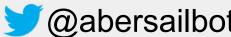




What do we do?



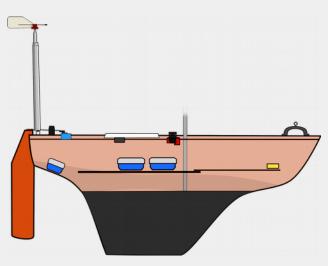
- Build Autonomous **Robotic Sailing Boats**
- Write code
- Compete



The Boats

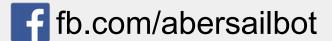


Dewi'r Ddraig





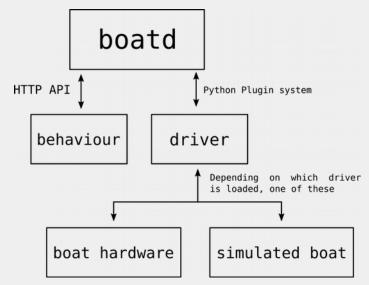
Kitty





Software

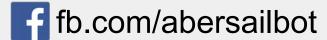
- Robotic Sailing Boat Daemon
- Independent behaviours
- Boat specific drivers



https://github.com/abersailbot



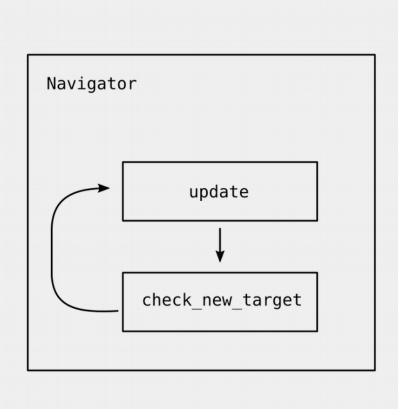


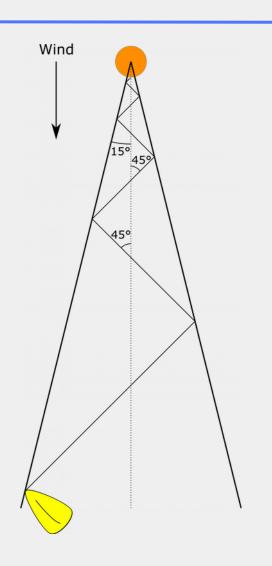






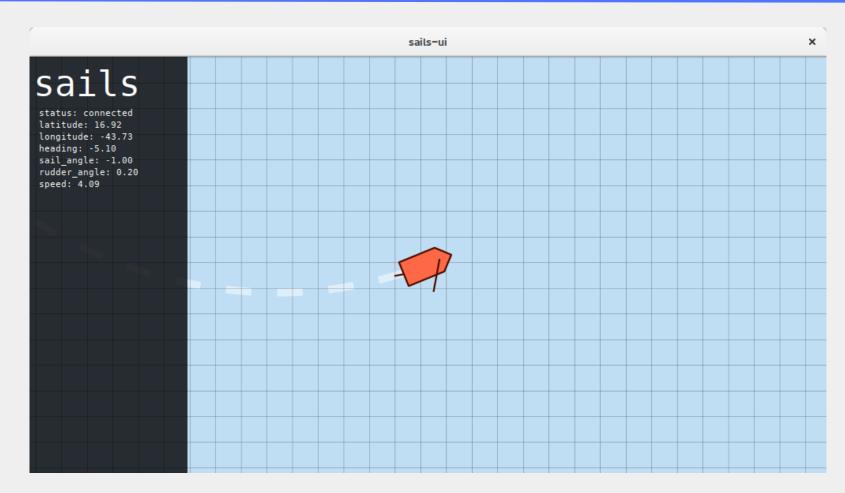
Behaviour



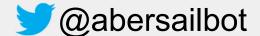




Simulation

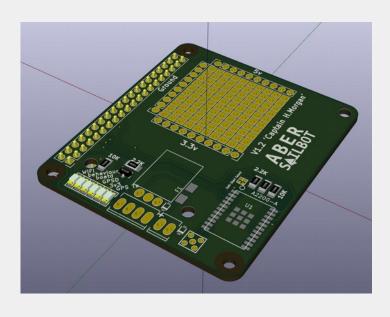


https://github.com/sails-simulator



Electronics





- RaspberryPi and Arduino
- Captain Morgan PCB
- Wind Sensor
- Compass







Transport









Competitions - Sailbot

SailBot

- Student focused
- Emphasis on boat design
- Usually in USA or Canada
- June 7th-12 2020:
 - Amesbury, (near Boston)
 - Massachusetts, USA

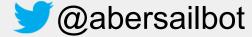


Competitions - WRSC

World Robotic Sailing Championships

- More research focused
- Emphasis on autonomy
 - Collision Avoidance
 - Station Keeping
 - Area scanning
- We might host 2020



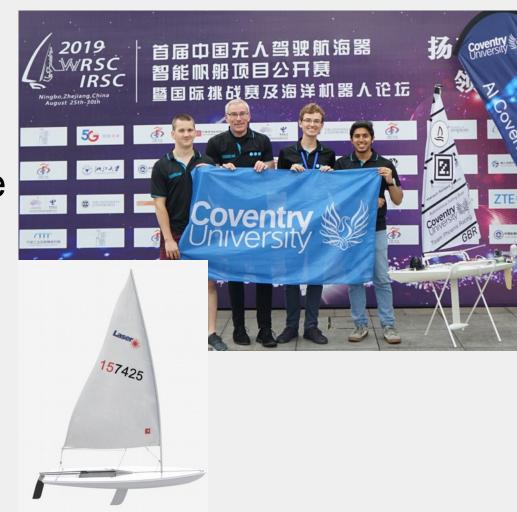




Competitions - Robosail

RoboSail

- RC Laser Hulls
 - Everyone uses same boat
- Åland Islands, Finland sometime in May





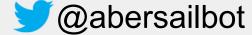
Competitions – Marine Autonomy Challenge

- Motorboat Competition
- Sponsored by L3 ASV
- Open to UK Universities
- Locate "litter" in the water
- Teams given hull and motors
- Was supposed to be August last year, cancelled in June



Plan for this year

- RC laser competition Mid November
- Weekly theoretical/skills sessions
- Fix Kitty, Improve Dewi
- New boat?
- Visit Coventry Uni, go to a Raspberry Jam
- Go to all the competitions: RoboSail, Sailbot, MAChallenge, WRSC





Mini RC Laser competition



- Teams of 4 or 5 people
- Polystyrene RC laser hull
 - Raspberry Pi computer
 - Captain Morgan board
 - Standard AberSailbot software
- Race November 16th/17th

