Ruby Tuesdays RTanque Tournament

by Jimmy Ngu

What is RTanque

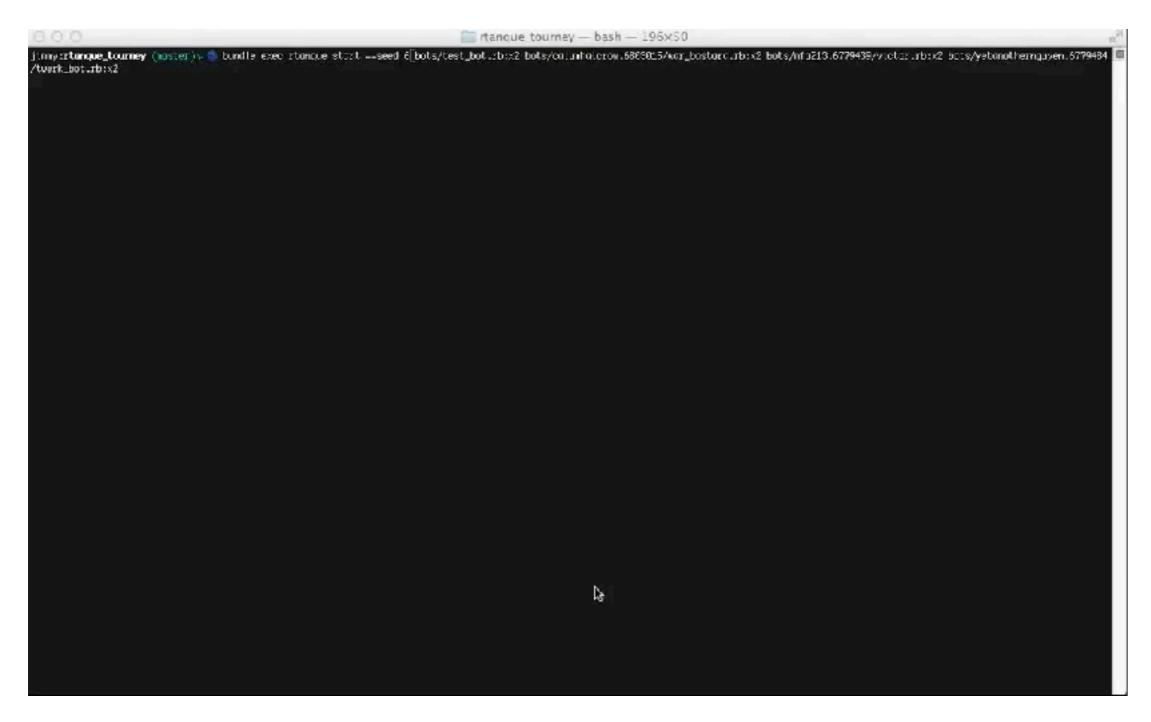
RTanque

/R taNGk/ •0

noun

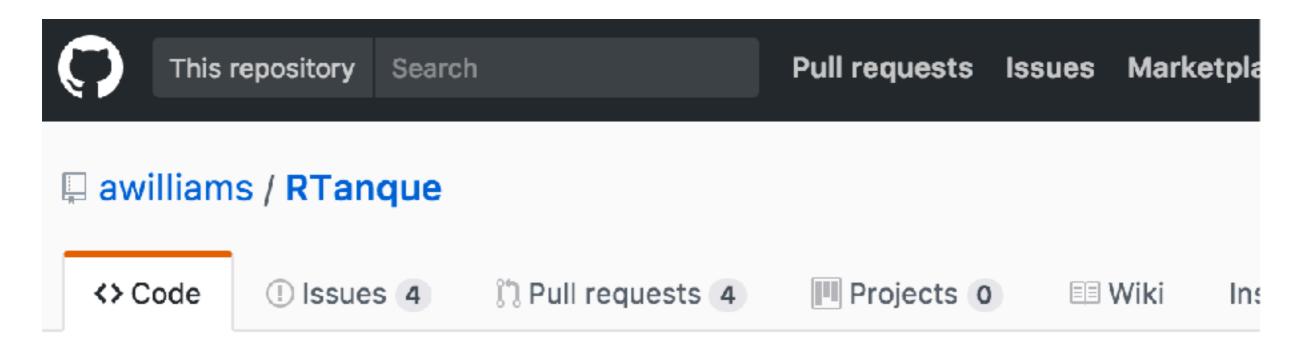
A game for (*Ruby*) programmers. Players program the brain of a tank and then send their tank+brain into battle with other tanks. All tanks are otherwise equal.

What is RTanque



https://youtu.be/fGAhPUGWVbo

https://github.com/awilliams/RTanque



RTanque is a game for (Ruby) programmers. Players program the brain of a tan battle against other tanks. http://awilliams.github.com/RTanque/

http://www.rubydoc.info/github/awilliams/RTanque

or

Google "rubydoc RTanque"







turret



radar



tank body

RTanque::Bot::Brain

```
class MyTank < RTanque::Bot::Brain-
     include RTanque::Bot::BrainHelper-
3
    NAME = 'MyTank'¬
4
5
   def tick!
   ·· # Do tank things ...
8
   end-
   end-
```

RTanque::Bot::Sensor

```
def sensor_stuffs=
    sensor.gun_energy # energy of cannon.=
    sensor.heading # The current value of heading, yielding RTanque::Heading=
    sensor.health # health of bot.=
    sensor.position # The current value of position, yielding RTanque::Point=
    sensor.radar # enumerates all bots scanned by the radar, yielding Radar::Reflection.=
    sensor.radar_heading # The current value of radar_heading, yielding RTanque::Heading=
    sensor.speed # The current value of speed.=
    sensor.ticks # number of ticks, starts at 0.=
    sensor.turret_heading # The current value of turret_heading, yielding RTanque::Heading=
    sensor.turret_heading # The current value of turret_heading, yielding RTanque::Heading=
    end=
```

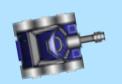
RTanque::Bot::Command

```
def command_stuffs
command.fire_power = 1.0 # Float, nil
command.heading = 1.0 # Float, RTanque::Heading
command.radar_heading = 1.0 # Float, RTanque::Heading
command.speed = 1.0 # Float
command.turret_heading = 1.0 # Float, RTanque::Heading
command.turret_heading = 1.0 # Float, RTanque::Heading
```

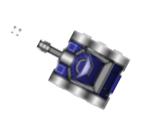
RTanque::Radar::Reflection



radar detection area







RTanque::Heading

Step 1 - setup locally :-

clone https://github.com/awilliams/RTanque
bundle install

Step 2 - Build & Test your tank :-

bundle exec rtanque new_bot my_super_bot bundle exec rtanque start bots/**/*.rb

Step 3 - Upload your tank to Gist

Step 4 - Join the #RTRT channel in RubyMY Slack

http://rubybrigade.my/slack_invite/

Step 5 - Post your Gist Link

Let the Battle Begin!!!