John Romero Programming Proverbs

- 7. "Use a development system that is superior to your target."
- John Romero, "The Early Days of Id Software John Romero @ WeAreDevelopers Conference 2017"

Current simple Remote procedure call API

- includes more than these, but these are some of the simplist functions
- ourself () : integer
 - return the id for ourself
- noplayers () : integer
 - return the number of bots and players in ioquake
- player (id) : (id, 'string name')

- introduce low hanging fruit first:
- disableAI () : boolean
 - disable the in game C AI
 - return True/False if successful
 - this has been implemented

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- \blacksquare getview () : [x, y, z]
 - get the viewing angle of bot
- setview ([x, y, z]): boolean
 - set the viewing angle of bot

- getposition () : [x, y, x]
- get the position of bot
- getvisible (): [[it0][it1][it2][it3][itn-1]]
 - return a list of objects which are visible to bot
- where

```
it0 = [integer, string, position] # object id, name, position
position = [x, y, z]
```

- turn (angle) : boolean
 - return True/False if bot can turn angle degrees.
- alignwith (oid)
 - return True/False if bot can turn to align with object id, oid

- stepLeft (distance)
 - step left by distance units
- stepRight (distance)
 - step right by distance units
- stepForward(distance)
 - step forward by distance units
- stepBack(distance)
 - step backward by distance units

- improve the select remote procedure call to handle an event BUMPEDe
- gettouching(): [id0, id1, id2]
 - get list of touching objects
- health (id) : integer
 - return an integer of the health of bot, id

- weapons(id) : [w0, w1, w2, w3, wn]
 - return list of weapons
 - w0 = [integer string, ammo] # weapon id, name, ammo count
- changeweapon (wid) : boolean
 - return True/False is bot can change weapon to, wid