

PID:

<http://www.ferdinandpiette.com/blog/2011/08/implementer-un-pid-sans-faire-de-calculs/>
<http://robotshop.com/letsmakerobots/node/39829>

```
#include <AFMotor.h>

AF_DCMotor motorLeft(4);
AF_DCMotor motorRight(3);

void setup() {
  // put your setup code here, to run once:

  motorLeft.setSpeed(255);
  motorLeft.run(RELEASE);

  motorRight.setSpeed(255);
  motorRight.run(RELEASE);
}

void loop() {
  // put your main code here, to run repeatedly:

  // Go ahead
  motorLeft.setSpeed(255);
  motorLeft.run(FORWARD);
  motorRight.setSpeed(255);
  motorRight.run(FORWARD);
  delay(500);

  // Turn Right
  motorLeft.setSpeed(255);
  motorLeft.run(FORWARD);
  motorRight.setSpeed(0);
  motorRight.run(RELEASE);
  delay(500);

  // Go ahead
  motorLeft.setSpeed(255);
  motorLeft.run(FORWARD);
```

```
motorRight.setSpeed(255);  
motorRight.run(FORWARD);  
delay(500);
```

```
// Turn Left  
motorLeft.setSpeed(0);  
motorLeft.run(RELEASE);  
motorRight.setSpeed(255);  
motorRight.run(FORWARD);  
delay(500);
```

```
}
```