Arduino Reference Guide

Basic Program Structure

```
void setup()
void loop()
}
```

Comments

```
//Single-line comment
 Multi-line comment
```

Pausing

```
delay(
             );
delayMicroseconds(
                           );
```

Setting Up Pins

pinMode();

Arithmetic Operators

GPIO

	Output			Input	
Digital	digitalWrite(,);	digitalRead();
Analog	analogWrite(,);	analogRead();

Comparison Operators

Data Types

int, float, double, boolean, char, string, byte, void

Boolean Operators

&&, ||, !

Control Structures

If Else Statements

```
if(
{
else if(
}
else
```

Switch Case

```
switch(
 case 1:
   //statements
   breaks;
 case 2:
   //statements
   break;
 default:
   //statements
}
```

Do... While

```
do
 //statements
}while(
```

While

```
while(
            )
 //statements
```

For Loop

```
for( ; ; )
 //statements
```