

## SARA interface – Python Class

### Head :

```
-init() : int  
+lookAt(Vector) : Vector  
+lookAt(int, int, int) : Vector  
+rotate(float) : float  
+tilt(float) : float
```

### Face :

```
-init() : int  
+setEmotion(robot::emotion) : bool  
+setTalk(bool) : bool  
+setColor(int, int, int) : bool  
+setBrightness(int) : int  
+setActive(bool) : bool
```

### Speech :

```
- int init ( ) : private  
- bool setLanguage (robot::language) : public  
- bool say (String) : public
```

### Ears :

```
- int init ( ) : private  
- bool listen (Bool) : public  
- string[] getText ( ) : public  
- float getSoundPosition ( ) : public
```

### Ebutton :

```
- int init ( ) : private  
- bool getState ( ) : public
```

### Battery :

```
- int init ( ) : private  
- Battery::State getState ( ) : public  
- float getVoltage ( ) : public  
- float getAmp ( ) : public  
- Cell[] getCell ( ) : public  
|  
|-----> Cell :  
|           - float Voltage : public  
|           - float Amp : public  
|----->State :  
|           - string errorMessage : public  
|           - int errorCode : public
```

Base :

- int init ( ) : private
- bool goTo (x, y) : public
- float rotate (float) : public
- float setForwardSpeed (float) : public
- float setBackwardSpeed (float) : public
- float goForward ( ) : public
- goBackward ( ) : public

Gripper :

- int init ( ) : private
- bool close ( ) : public
- bool open ( ) : public
- bool reset ( ) : public
- bool isConnected ( ) : public