Pibrella cheat sheet

Any program that uses the Pibrella needs to import the library like this:

```
import pibrella
```

Programs must be run as root, which means you need to start idle from a terminal window like this:

```
sudo idle
```

Or you can run a program you've written like this:

```
sudo python test_pibrella.py
```

Turning the 3 LEDs on and off

The light colours are called red, yellow and green.

Blinking and pulsing LEDs

Fading LEDs

```
pibrella.light.red.fade(0, 100, 2) # From 0 to 100% in 2 seconds
```

The buzzer

```
pibrella.buzzer.buzz( frequency )  # play a frequency
pibrella.buzzer.fail()  # built in failure sound
pibrella.buzzer.success()  # built in success sound
```

Button

Inputs

```
There are 4 inputs called a, b, c and d.
```

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Outputs

There are 4 high power outputs (that can drive a motor) called e, f, g and h.

Handling events

As an alternative to polling an input (checking the input in a loop) is to setup an event handler (like events in Scratch)

```
# the event handler
def button_pressed(pin):
    print("You pressed the button!")

# set the handler to trigger when the button is pressed
pibrella.button.pressed(button_pressed)

# set the handler to trigger when the button is released
pibrella.button.released(button_pressed)

You can also use this technique on the a, b, c and d inputs:
pibrella.input.a.pressed(button_pressed)
```

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