

File<Examples<Mindwave<Serial

The screenshot shows the Arduino IDE interface with the Serial Monitor open. The code in the background is as follows:

```
1 #include <Mindwave.h>
2
3 Mindwave mindwave;
4
5 void setup() {
6   Serial.begin(MINDWAVE_BAUDRATE);
7 }
8 void onMindwaveData() {
9   Serial.print("\tquality: ");
10  Serial.print(mindwave.quality());
11  Serial.print("\tattention: ");
12  Serial.print(mindwave.attention());
13  Serial.print("\tmeditation: ");
14  Serial.print(mindwave.meditation());
15  Serial.print("\tlast update: ");
16  Serial.print(mindwave.lastUpdate());
17  Serial.print("ms ago");
18  Serial.println();
19 }
20 void loop() {
21   mindwave.update(Serial, onMindwaveData);
22 }
```

The Serial Monitor output shows the following data:

quality	attention	meditation	last update
88	0	0	1561ms ago
88	0	0	4193ms ago
88	0	0	6785ms ago
88	0	0	6759ms ago
88	0	0	6805ms ago
88	0	0	4185ms ago
88	0	0	4205ms ago
88	0	0	4229ms ago

File<Examples<Mindwave<EEG

The screenshot shows the Arduino IDE interface with the Serial Monitor open. The code in the background is as follows:

```
1 #include <Mindwave.h>
2
3 Mindwave mindwave;
4 int* eeg;
5
6 void setup() {
7   Serial.begin(MINDWAVE_BAUDRATE);
8   Serial.println("delta\ttheta\tlowAlpha\thighAlpha\tlowBeta\thightBeta\tlowGamma\thighGamma");
9 }
10 void onMindwaveData() {
11   eeg = mindwave.eeg();
12   for(int i = 0; i < MINDWAVE_EEG_SIZE; i++) {
13     Serial.print(eeg[i]);
14     if(i < MINDWAVE_EEG_SIZE) Serial.print("\t");
15   }
16   Serial.println();
17   //alternatively get individual value via delta(),theta(),lowAlpha(),highAlpha(),lowBeta(),highBeta(),lowGamma(),highGamma()
18 }
19 void loop() {
20   mindwave.update(Serial, onMindwaveData);
21 }
```

The Serial Monitor output shows the following data:

delta	theta	lowAlpha	highAlpha	lowBeta	highBeta	lowGamma	highGamma
15	8	2	0	2	1	0	1
12	6	3	0	1	1	1	1
10	3	0	1	0	1	0	0
10	8	1	1	0	1	0	0
9	6	3	1	1	1	0	1
17	4	1	2	1	1	0	0
17	7	1	2	1	0	0	0
8	5	3	0	0	1	1	0
7	5	2	1	0	1	0	1
5	3	1	1	0	1	0	0
13	3	0	0	1	0	0	0
5	1	0	0	1	1	1	0
11	1	2	1	1	1	0	1
6	3	0	1	0	1	0	0
13	1	0	6	0	1	0	0

Android Application "Brainwave Visualizer"

