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# Kuray Documentation

*Release 0.2-git*

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## Contents

|          |  |          |
|----------|--|----------|
| <b>1</b> | <b>Getting Started</b>                 | <b>1</b> |
| 1.1      | Measuring Frequency Response . . . . . | 1        |
| <b>2</b> | <b>Frequently Asked Questions</b>      | <b>2</b> |
| <b>3</b> | <b>Contribute</b>                      | <b>2</b> |
| 3.1      | File Bug Reports . . . . .             | 2        |
| 3.2      | Artwork and Interface Design . . . . . | 2        |
| 3.3      | Documentation . . . . .                | 2        |
| 3.4      | Windows and MacOSX ports . . . . .     | 2        |
| 3.5      | Coding . . . . .                       | 3        |

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*Kuray* is a cross-platform application for measuring audio systems. With it, you can obtain amplitude and phase responses from a loudspeaker.

## 1 Getting Started

To start measuring your audio hardware or listening environment, you need:

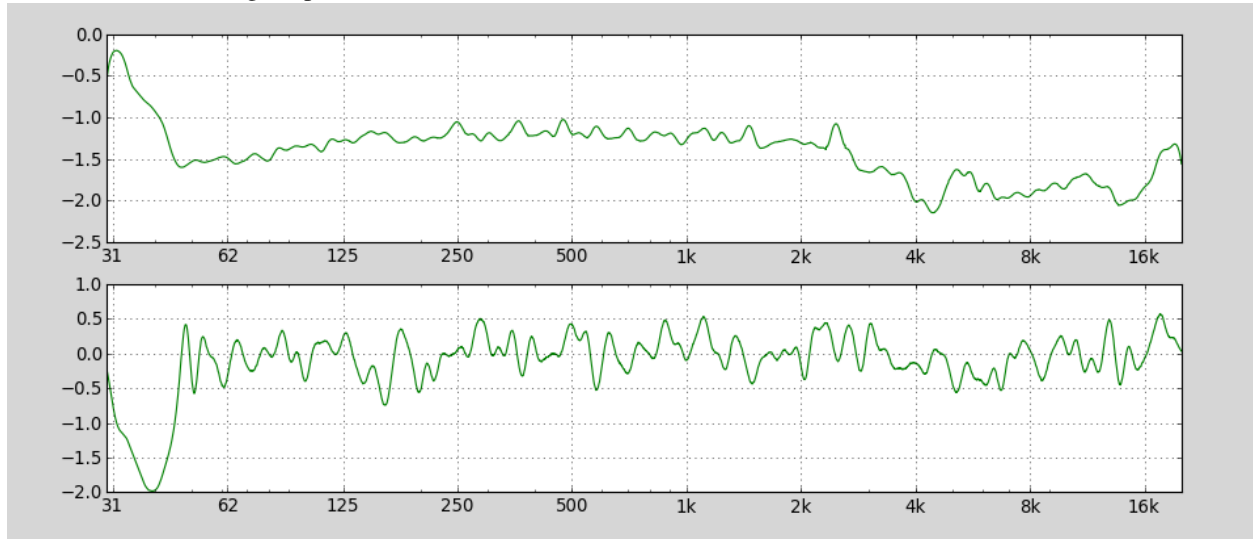
- A computer with a soundcard
- A *measuring* microphone
- *Kuray*

### 1.1 Measuring Frequency Response

The first thing you might want to try is measure the frequency response of a loudspeaker. Actually, unless you happen to have access to an [anechoic chamber](#), you'll be measuring the combination of your speaker and your room (and your microphone).

To do this with *Kuray* you need to plug in a microphone into your soundcards input. Beware to set up your sound settings not to output the signal of your microphone directly to the speakers to avoid feedback. Start *Kuray* and hit

*Measure.* It will generate and play a sine sweep, record it via the microphone and then calculate the frequency response from that. You should get a plot like this:



## 2 Frequently Asked Questions

## 3 Contribute

*Kuray* is still in a very early phase of development, and could always use a bit of help. Here are a couple of things you could do to help out:

### 3.1 File Bug Reports

As with most open source projects, *Kuray* does not have a dedicated team of testers, so it depends on the community to report back any bugs, problems or issues it has. Feature requests are also openly encouraged. So please feel free to report any of these at our [Github Issue tracker](#).

### 3.2 Artwork and Interface Design

*Kuray* still needs a logo, and if you're interested in web design, you could provide a unique look to these pages. At the moment, *Kurays* user interface is relatively straight forward, but as the number of options rise, clutter will increase. If you have a vision for going forward in this area, please do get in touch via the [Mailing List](#).

### 3.3 Documentation

The documentation always needs to be expanded or improved. Fix typos, make difficult sections clearer and contribute in this important area of the project. Send a pull request at [Github](#) or post on the [Mailing List](#).

### 3.4 Windows and MacOSX ports

*Kuray* is written completely in Python, and uses only cross-platform libraries. I'm using and developing it on Linux, but it would be nice to offer Windows and Mac binaries. I've successfully built a Windows binary using [pyinstaller](#),

but don't have enough Windows experience to feel comfortable making quality releases. No experiences with *Kuray* on Mac so far, but I'd really like to see this change. So if you're interested in seeing *Kuray* on your favourite platform drop us a line at the [Mailing List](#).

### 3.5 Coding

Naturally, we would love to see coding contributions. If you have fixed a bug or implemented a new feature, share it with the rest of us. We'd love to merge your pull request via [Github](#).