# Basics

Some basic knowledge of MIDI and DIY electronics will help you in building a MIDIBox. This page will help cover the basics.




## Getting started

1. **Getting Started FAQ**
2. **Troubleshooting**
3. **Electronics Basics**
4. Digital Electronics
5. Introduction to MIDI

- **Electronics DIY Common Tools**
- Case and Frontpanels DIY Common Tools

- **MIDIbox Internal Components**
- **Ordering Parts**

### Soldering









- **Soldering Tips**

### Prototyping







- **Etching PCB DIY**

## Midiboxing Softwares



### PCB

- **KiCAD Open Source PCB Design** - PCB Design Open-source
- Eagle PCB - PCB Design FreeWare + Commercial

### FrontPanel / Case

- **FreeCad Open Source Technical Drawing** - Solidworks like CAD
- FrontPanel Designer - Frontpanels making for Schaeffer

### Concept Drawing / documenting

- **Inkscape Open Source Vector Graphics** - Vector Drawing
- **Blender Open Source 3D** - Artistic 3D
- **LibreOffice** - Excel-word like

### Programming

- **MIDIbox Programming Tools**

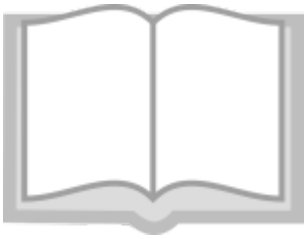
## Practical Tips

- **Tips & Tricks Forum Section**
- Forum Highlights

### Codes & Values

- **Calculator.org** - Multi-purposes Units Converter
- **Resistor color decoder** - Resistor color code Calculator SmashTV's MIDIbox Site
- CSGnetwork - Capacitor Color Code Calculator

## Learning & Looking up



- MIDI Specification and MIDI Protocol

Fix Me! *the following sections are quite outdated*

- Encyclopedia of electronic terms
- References
- Book Reviews

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