Beatbox Machine
Coder Resources

Project Sequence
(complete each step before moving to the next)

1. **Sign in and create a new project**
2. **Create funny backdrops**
   a. Old method that works in offline Scratch: **Create funny backdrops**
3. **Trigger sounds**
4. **Add in comments**

Project Extensions
(pick and choose extensions that sound interesting)

1. **Fix a bug**
2. **Create a beat (or melody)**
3. **Customize sounds**
4. **Share your project**
5. **Create a thumbnail**
6. **Learn even more Scratch tips**
7. **Learn how to use a micro:bit with Scratch**

Debugging Exercises
(practice your debugging skills by solving these bugs)

1. Why do we only see a blank backdrop when pressing an arrow key? How can you debug this code to make it show a funny picture before showing a blank backdrop?
2. Why is my drumbeat taking forever until I hear the next note?
3. Why do we only see one picture, hear all of the sounds, and then see a blank backdrop? How can we fix this to make a beat instead?
4. ***micro:bit required*** Why can't I make beats with three different sounds and pictures when each of the three micro:bit pins are connected?
5. Even more debugging exercises

Example Project and Files
(use these resources to see the original project, learn how to remix the project, or to challenge yourself)

1. **Project**: Example project
2. **Video:** Project Preview (0:44)
3. **Video**: Remixing a project (2:42)
4. **Video**: How to reverse engineer a project (2:29)