

# MixtapeStudio

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# Overview

- A simple programming language that makes it easy to produce fire mixtapes (and other music)
- Goal: MATLAB for music
  - "This is the most innovative thing ever. 11/10" - My dad
  - "100 100 100 100 🤔🔥🔥🔥👉👉 denouttaden" - My roommate, Jimmy
  - "wubwubwubrrrrrrr." - Skrillex
  - "gr8 out of 8" - My other roommate, David
  - "Screw finale!" - My other other roommate, Issac
  - "This language literally burned my house down. I've lost everything. 8/10" - Not a roommate, Zach
  - "Couldn't stop touching myself if I tried. 9/10" - Hobo on the street
  - "I guess it's okay. 9/10" - IGN
  - "I'd use it." - Fig Bucking Booty (Soundcloud user)

# Features

- Standard Language Features:
  - Variables
  - Loops
  - Conditionals
  - Code Blocks
  - Input/Output to Console
  - Comments
  - Random
  - Compiles
  - Doesn't crash every third line



# Features

- Music Features:
  - Tempo/Time
  - Notes
  - Playback
  - Generate/save mixtapes (.midi)
  - Soothing piano noises
  - Never gives you up
  - Never lets you down

# Future Improvements

- More musician friendly:
  - Alternate instruments/sounds
  - Mappings for more common notation forms (such as A4, C, etc.)
  - Add key signatures
  - Chord building functions
  - Large room for improvement by incorporate more ideas from music theory
  - More sweet mixtape demos
- Issues with getting a MidiDevice
- Fix issue where fire mixtapes burn down houses