AdaBox012 – PyGamer

PRODUCT ID: 4185

Oh! Hello! If you're here, (and we suspect you are) it's because you want to reward yourself with the gift of handheld gaming development and coding with an AdaBox! Perhaps you are a beginner who is getting started with your AdaBox. Or maybe you just want to relive what it's like being a beginner at game development and coding again. But most of all, you want to learn how to build and make creative, awesome games! (If, rather than learn game dev and coding, you'd like to look at pictures of cats instead, please check https://www.adafruit.com/galleries/cats-of-engineering But if we're being honest, learning game development and coding will inevitably lead to even more efficient, creative, and high-tech cat picture viewing. It's pretty much cats all the way down, people.)

Anyway, back to our story: You're in luck: there's *never* been a better time. Seriously. We're not just saying that. It's bonkers how great a time this is for you to learn game development and coding!

Gone are the days where you need thousands of dollars of equipment and a physics/math background. If you have a dream of creating games with stylin' pixel art and chip-tune soundtracks for your own handheld gaming device, you can build them! Want to design your own RPG? You can do it! How about an re-make of an 8-bit classic? You'll be doing that in no time!

Now is the the time to learn game development and coding for the PyGamer using Microsoft's MakeCode Arcade, the easy-to-use, drag-and-drop development environment you can run right in the browser! And uploading your games to play on your PyGamer is a snap!

Oh, and did we mention, you can also use Arduino and CircuitPython with the PyGamer? You can!

Thanks to the generous sponsorship and support from Digi-Key for making designing and shipping this box a breeze -- they always ship out parts orders super fast!

Who is this for?

Anyone who's interested in playing and/or creating their own video games, that's who! If you want to learn how to code your own games, create pixel art sprite and animation, gameplay mechanics, scoring, and even chiptune soundtracks, this is for you! And a desire to play your own games on the go on a totally rad handheld gaming platform. Oh, and with access to a modern web browser to do the coding. That's pretty much the minimum.

You don't need to know a lot of physics or math, and just like an Art Degree isn't required for making art and being creative, you *don't* need to have a computer science or engineering degree. It helps if you're comfortable using computers, but that's a skill most people pick up through life.
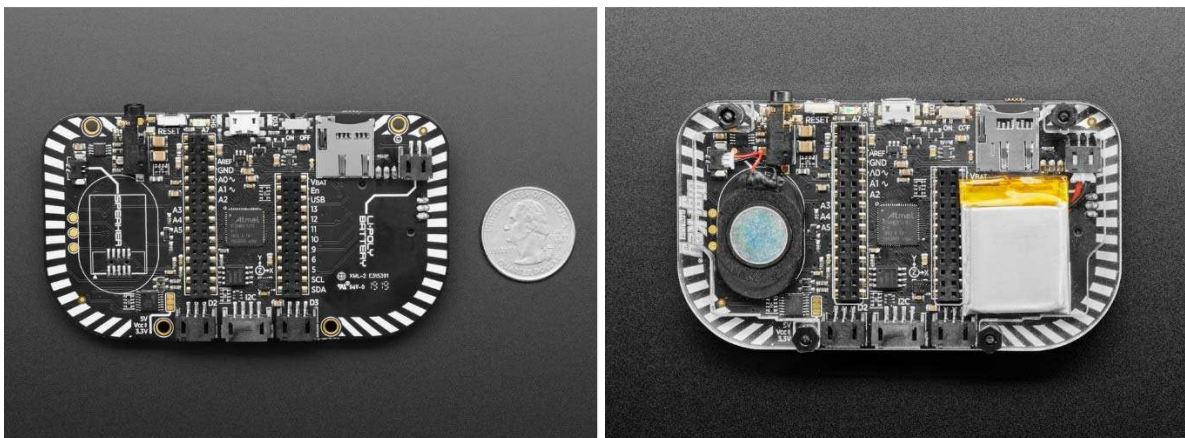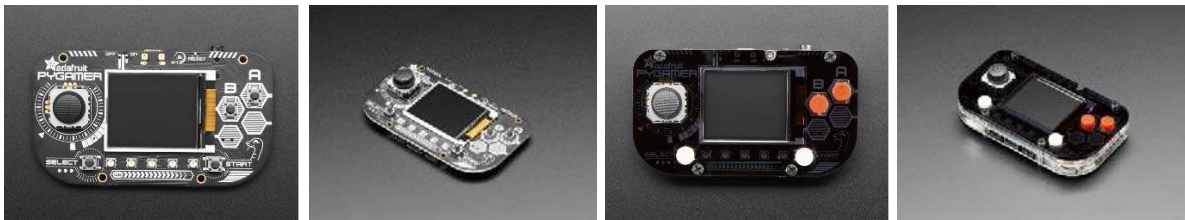
If you know how to program already – great! If not, don't worry, we'll teach you enough to be dangerous, yet effective!

Please note! This is NOT the subscription version of AdaBox! This version *does not* include free shipping. If you'd like to subscribe to AdaBox, please visit the AdaBox page!

If you're an international customer (outside of the UK, France, and Germany), this is currently the only way to get an AdaBox (for now – we're working on it!)

Includes:

- Adafruit PyGamer for MakeCode Arcade, CircuitPython or Arduino
- Adafruit PyGamer Acrylic Enclosure Kit
- Plastic Button Caps For Square Top (10-pack) – 8mm Diameter
- Lithium Ion Polymer Battery with Short Cable – 3.7V 350mAh
- Mini Oval Speaker with Short Wires – 8 Ohm 1 Watt
- Maker-Friendly Zipper Case – Purple
- Watercolor Pens 12-Pack
- Spiral Notebook with Grid Paper

ADABOX012: PYGAMER

Player One, Ready? This ADABOX will show you how to become your own video game creator with MakeCode Arcade. No need to save your quarters up either, all you need is a computer with a web browser to use Microsoft's game creation engine. Learn about sprites, tile maps, and sound effects to craft your masterpiece, then run it on the PyGamer board for portable gameplay.

PyGamer is our full-featured portable gaming platform. It features a color TFT display, analog joystick, buttons, speaker, headphone jack, SD card slot, as well as light and motion sensors. It's hack-able, you can plug in STEMMA cables or FeatherWings to extend its capabilities. It's designed to work perfectly with MakeCode Arcade, and you can also write games in CircuitPython, Arduino, or even run an emulator to play old 8-bit games of yore.

This ADABOX is possible with the generous sponsorship and support from Digi-Key. They made designing and shipping this box a breeze thanks to how fast they shipped our parts orders. We are so impressed with their accuracy and speed, we wrote a game in their honor, its already included on the PyGamer. Try and see if you can pack purchase orders as well as they do!

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I Adafruit PyGamer - Design and play your own games in MakeCode Arcade, CircuitPython or Arduino on this ATSAMD51-based portable gamer. It comes with an analog joystick, 4 buttons, a 1.8" color display, 8 MB built in storage, SD card slot, sensors, stereo headphone jack, and STEMMA connectors.

I Speaker - Plug it into your PyGamer to play music or game sound effects.

I Lithium Polymer Battery - When installed in the PyGamer it will let you take it on the go.

I Button Pack - Customize your PyGamer with 5 different button colors that snap on to match your personal style.

I PyGamer Enclosure Kit - Laser cut acrylic with hardware.

I Zipper Case - Keep your PyGamer safe in this soft zipper case, it even has a storage pocket for cables, headphones or SD cards!

BONUS EXTRAS!

I Gridded Notebook and Marker Set - Dream up your pixel art or game map on this lay-flat notebook with a square grid background.

I MakeCode Arcade and Retro Handheld Sticker Set - Decorate your case and check out the family tree that inspired PyGamer.

I Wireframe Magazine - The magazine that lifts the lid on video games. Look at how games are made, who makes them, and even read through the process of making your own.

Visit adafruit.com/adabox012 for a special unboxing.

Visit learn.adafruit.com/adabox012 for AdaBox tutorials.

Visit forums.adafruit.com/adabox to discuss your projects.

For subscribers, a one-time use 10% off discount code has been added to the Adafruit account associated with your AdaBox order.

Adafruit asks that you share your creations on Twitter, Facebook, and Instagram with #adabox and #adabox012.

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