My Piano

Play music with your own app

Essential Questions

- What music apps do you use?
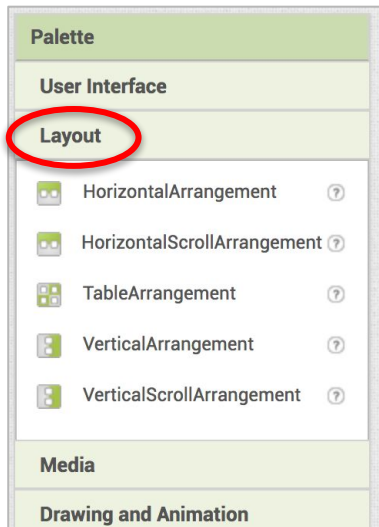
- How do music apps play sounds?

Objectives

1. Code a piano app using the App Inventor Blocks Editor.

2. Apply the computational thinking practice of being incremental and iterative, developing and testing an app in stages.

3. Reuse code in an app.

4. Demonstrate abstraction by creating and implementing a procedure in App Inventor;

5. Test and debug an app using the MIT AI2 Companion.

6. Increase your positive perception of programming by creating a useful and fun app.
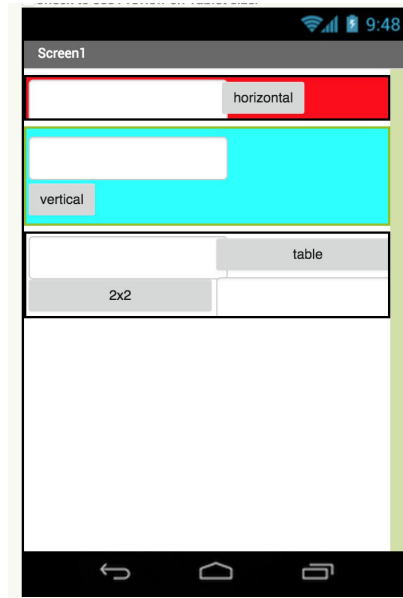
Lesson 1 Introduction

Layout components give you more control of how other components appear.

Layout drawer

- ■ Horizontal
  - ○ Components appear beside each other
- ■ Vertical
  - ○ Components appear below each other
- ■ Table
  - ○ Components appear in a grid, based on number of columns and rows
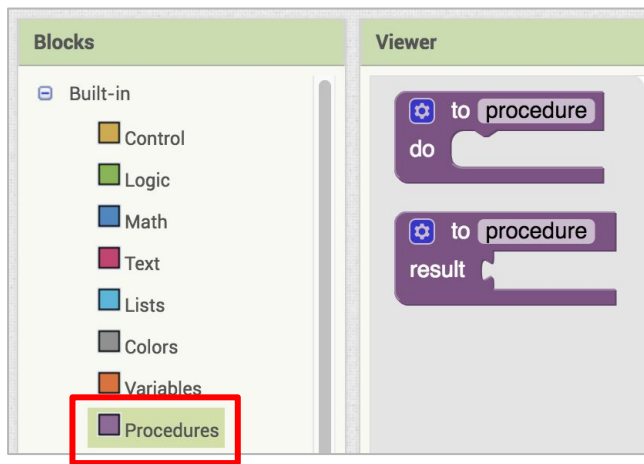
Lesson 1:

Complete Student Guide 1:

Lesson 2: Procedures

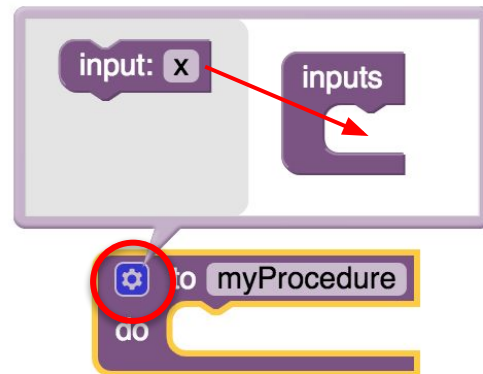Activity: Make pizza with a procedure

Procedures

- Organizes code into a named block
- Can be called in multiple places within the app
- Makes updating/fixing code easy (all in one place)

- Add input parameters

Lesson 2:

Complete Student Guide 2:

Lesson 3:

Complete Student Guide 3:

Vocabulary Words

Layout

HorizontalArrangement

VerticalArrangement

procedure

call a procedure

abstraction

parameter