



AppInventor

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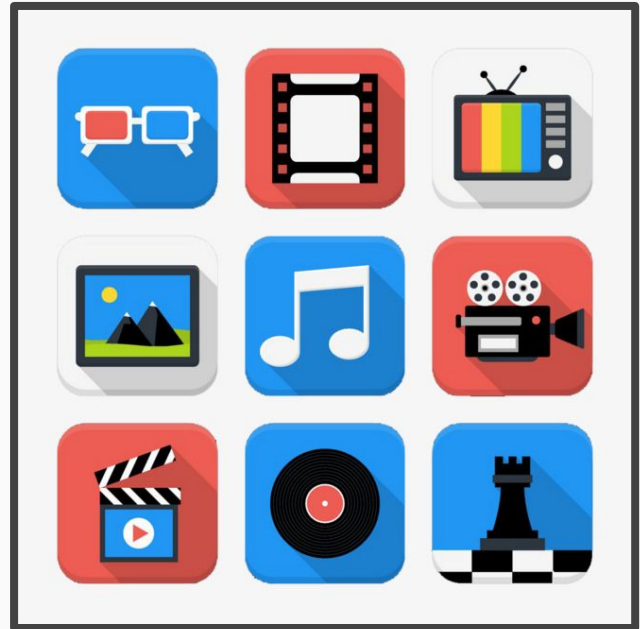
What is an App?

- The word "app" is an abbreviation for "application."
- It's a piece of software that can run through a web browser on your computer, on a smartphone phone, tablet, or other electronic devices.
- An app is essentially a piece of software.
- Apps were most commonly used to take pictures, send or receive text messages, access the Internet or play games.
- App are very easy to use because they are inexpensive and can easily be downloaded, accessed, and deleted.



Why do we Need Apps?

- Nowadays, we carry our smartphones everywhere.
- So if we need to access a certain software while on the go, apps allow us to access information, connect with others, or just for leisure and fun.
- Apps also allow for greater personalization than websites and some apps offer the option to work offline without wifi or data.



What is AppInventor?

- AppInventor is a software Developed by M.I.T. and Google.
- Its main goal is to give people the opportunity to program and design their own apps.
- Additionally, you do not need to have much C.S. experience to code an app on the software.
- App Inventor takes fundamental coding concepts down into simple blocks that almost anyone can understand.



How to use AppInventor

- MIT App Inventor is a visual programming environment that allows everyone, even kids, to build apps for smartphones and tablets.
- Those new to App Inventor can have a simple app up and running in very little time.
- Despite the easy coding language, AppInventor uses C.S. concepts that carry over to many other advanced coding languages.



Here is an introductory program that was created on MIT AppInventor. The program is quite simple, when Button1 is clicked or pressed, it will play a sound, in this case Sound1.

AppInventor allows for easy programming without having to learning a new language or deal with tough syntax errors.



How to use AppInventor (cont.)



AppInventor provides two different interfaces...

- “designer page”,

Designing appearance app and add components, lets see how the app will look when ran

- “blocks”

introduces the user to the programming aspect of AppInventor,
uses connecting blocks for program



TicTacToe

Screen1Add Screen ...Remove Screen

DesignerBlocks

Palette

User Interface

Button

CheckBox

DatePicker

Image

Label

ListPicker

ListView

Notifier

PasswordTextBox

Slider

Spinner

TextBox

TimePicker

WebViewer

Layout

Media

Drawing and Animation

Maps

Sensors

Social

Storage

Connectivity

LEGO® MINDSTORMS®

Experimental

Extension

Viewer

Display hidden components in Viewer

Check to see Preview on Tablet size.

Screen1

Clear

Components

Screen1

Canvas1

Button1

Rename

Delete

Media

tictactoeboard.jpg

Upload File ...

Properties

Screen1

AboutScreen

AccentColor

AlignHorizontal

AlignVertical

AppName

BackgroundColor

BackgroundImage

CloseScreenAnimation

Icon

OpenScreenAnimation

PrimaryColor

PrimaryColorDark

ScreenOrientation

Scrollable

ShowListsAsJson

ShowStatusBar

Sizing

ks

uilt-in

- Control
- Logic
- Math
- Text
- Lists
- Colors
- Variables
- Procedures

Screen1

Canvas1

Button1

any component

a

tactacToeboard.jpg

Upload File ...

Viewer

```
when Canvas1 ▾ .Dragged
  startX startY prevX prevY currentX currentY draggedAnySprite
do
  call Canvas1 ▾ .DrawLine
    x1 get prevX ▾
    y1 get prevY ▾
    x2 get currentX ▾
    y2 get currentY ▾
```

```
when Canvas1 ▾ .Touched
  x y touchedAnySprite
do
  call Canvas1 ▾ .DrawCircle
    centerX get x ▾
    centerY get y ▾
    radius 30
    fill false ▾
```

```
when Button1 ▾ .Click
do
  call Canvas1 ▾ .Clear
```

⚠ 1 ✖ 0

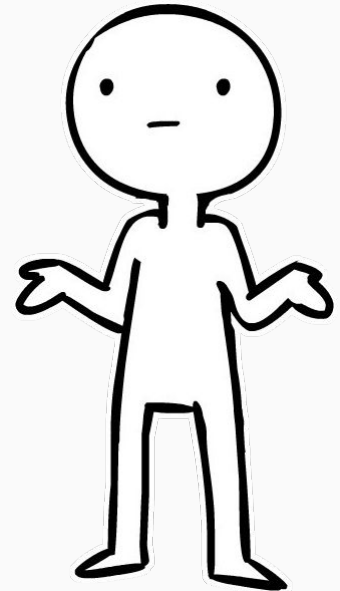
Show Warnings



Now let's try
our games out!

Why use AppInventor?

- AppInventor combineds easy to use programing blocks with the fun and excitement of creating an app of your own.
- AppInventor is free to use and allows the user to sell their apps in the Google Play store.
- Over 22 million apps have been created with AppInventor and thousands of people have been introduced to C.S. through AppInventor.
- If you wish to make your own apps without having to learn a new language, we recommend you give AppInventor a try.



AppInventor User Opinions

“I really enjoy using AppInventor because it’s an easy-to-use coding experience.”-Sanya Goenka

“AppInventor is a straightforward way to code that anyone can use.”-Brigid McCarron

“I really enjoyed using AppInventor and learning how to solve certain issues in a group. Getting to know what really went on behind-the-scenes of my favorite apps in a basic way was very interesting.” - Mahathi Gopinathan