Introduction to MIT App Inventor 2

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Getting Started

- AppInventor.org
 <u>http://www.appinventor.org/</u> →
 - LOGIN with your Google account
 - Follow the tutorial & build "I Have A Dream" App
 - Follow the course!

Getting Started

appinventor.org	Learn - Teach About Q Search Appinventor.org					
Modules ntroduction	The App Inventor Course-in-a-Box					
Course Overview						
Introduction	Self-Directed Learners Never coded but want to learn how to build apps? Then you've come to the right place. This course targets beginners of all ages and starts at the very beginningsetting up App Inventor. With video and text-based lessons,					
"I Have a Dream" Tutorial						
"I Have A Dream" Worksheet	Professor Wolber will step you through building progressively more complex apps. You'll learn how to build many types of apps and you'll learn programming concepts and terminology. Start learning with the "I Have Dream" Tutorial →					
Intro to App Inventor (lecture slides)						
What is App Inventor?						
Setup App Inventor						
App Maker Cards	Modules Module 1: Introduction to AI2 and Event-Driven Programming					

Your Project Site

	More Example!				
MIT App Inventor 2 Beta	Project • Connect • Build • Help •	My Projeus Guide Report an Issue faridfarahmand@gmail.com •			
New Project Delete Project					
Projects					
Name	Date Created	Date Modified 🔻			
PaintPot	2014 May 31 11:46:54	2014 Jul 9 14:23:21			
Test	2014 May 31 10:31:44	2014 Jul 9 13:24:20			
FireEngine_v1	2014 Jun 1 21:50:51	2014 Jul 9 13:23:53			
btchat_mod_3	2014 May 31 23:29:42	2014 Jun 1 21:08:09			

Start A New Project - TalktoMe

MIT App Inventor	r 2 eta	Projects 👻	Connect 🗸	Build 👻 Help 👻	My Pro	ojects Gallery	Guide Report an Is	sue English	, faridfarahmand(@gmail.com √
TalktoMe		Screen1 - Ad	ld Screen	Remove Screen					De	signer Blocks
Palette		Viewer					Components		Properties	
User Interface			Display h	nidden components in Viewer			Screen1		Screen1	
Button	0		Check to	see Preview on Tablet size.	9:48 💈 🗐				AboutScreen	
I TextBox	•		Screen1							10
ListView	0								AlignHorizontal	
DatePicker	?								AlianVartical	
TimePicker	0									
CheckBox	?								AppName	
A Label	0								TalktoMe	
ListPicker	0								BackgroundColor	
	(7)								BackgroundImage	
Password lextBox	0								None	
	0								CloseScreenAnimatio	n
WebViewer	0								Default 👻	
									None	
Spinner	(?)								NUITE	

Complete the Interface – Building the Designer



Build A Quick App - Blocks



Creating the QR Code for the Package



Programming Your Device

Must download MIT AI@ Companion on your mobile device



Program Your Device

When you start the Companion on your phone, it will look like (1). Back in App Inventor, choose "Connect" (2) then "AI Companion. This will cause a QR code to appear (3) You can then scan the QR code (4) with your phone to see your app live. NOTE: for live testing to work, **both your computer and phone/tablet must be connected to the same WiFi station.** Using WiFi is the easiest way to connect, but if you're at school/work you may have firewall issues.



http://www.appinventor.org/IHaveADreamTut

Creating the QR Code for the Package



On Your Android

- Google Play →
 Download MIT AI2
 Companion
- Open the application
- Make sure you get a URL address
- Press Scan QR Code
- Then press Connect with Code



Your APP

- Make sure your phone is setup to download applications from nonsecure sources!
- Find the downloaded APP on your phone and run it!
- This is how your app looks like:





Another Example....

USB Interface



The Designer



Download the App on your phone!

1-Create the .apk

- 2-Upload to your phone using USB cable
- 3-Run the application on the phone

TalktoMe2_V2	Screen1 - Add Screen App (provide OR code for .apk) App (save .apk to my computer)
Blocks	Viewer
 Built-in Control Logic Math Text Lists 	when AccelerometerSensor1 . Shaking do ? call TextToSpeech1 . Speak message ? " Stop shaking me! "
Colors Co	<pre> ? when Button1 .Click do ? call TextToSpeech1 .Speak message ? " My Name is Fae-Reed " </pre>

Pairing Your Phone & Computer

- Remove the phone device from your BT connections
- Make sure your phone's BT is on and it is discoverable
- Make sure your computer is not paired with any other devices (mouse, keyboard, etc.)

Basic Idea

Making your first APP: <u>http://appinventor.mit.edu/explore/ai2/hellopurr.html</u>



Block Architecture



References:

- AppInventor.org <u>http://www.appinventor.org/</u> → LOGIN with your Google account
- Other Tutorials: <u>http://appinventor.mit.edu/explore/ai2/</u> <u>beginner-videos.html</u>
- Exploring AppInventor <u>http://appinventor.mit.edu/explore/</u>