

Features of MIT App Inventor

MIT App Inventor

MIT App Inventor 的特点
麻省理工学院应用程序发明者

< ESC Club/App In Club >





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Functions

功能

We will make our own project
so you will create your own
app with MIT App Inventor!

我们将制作自己的项目，以便您
可以使用 MIT App Inventor
构建您自己的应用程序！

¡Haremos nuestro propio
proyecto para que usted cree
su propia aplicación con MIT
App Inventor!

Today you will need..

今天你将需要.....

- A computer
- A android or apple mobile device

● 一台 ☒ ☒

● 安卓或苹果移 ☒ ☒
☒



or



What are we doing in Mit app Inventor?

我们在 Mit 应用程序 Inventor 中做什么？

We are going to make a **2 number Calculator inside of MIT APP Inventor!**

我将在 MIT APP Inventor 中制作一个 2 位数



You will be able to use this app in real life.

MIT APP Inventor is good for making apps because we can easily do things with it really fast.

Moreover, with this project you will learn the basic functions of MIT APP Inventor

您将能够在生活中使用个应用程序。

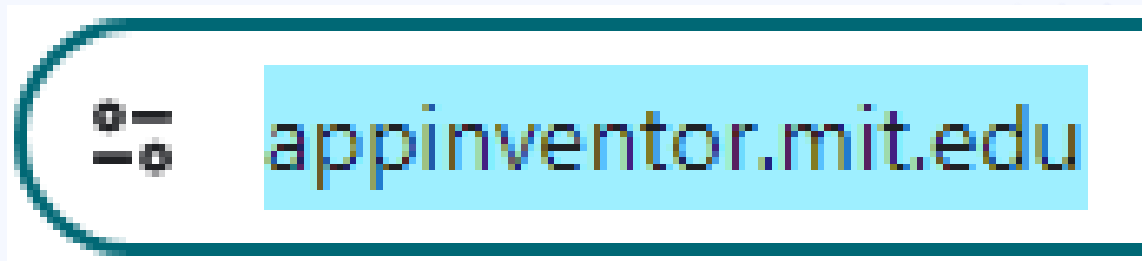
MIT APP Inventor 非常适合制作应用程序，因为我可以轻松快速地用它做事。

此外，通过这个项目您将学习 MIT APP Inventor 的基本功能

Open a Browser and put in this
Link:

打开浏览器并输入此链接：

<https://gallery.appinventor.mit.edu/?galleryid=af71fa32-3d07-4102-9d0a-63271946ee0b>



Now Follow my screen:

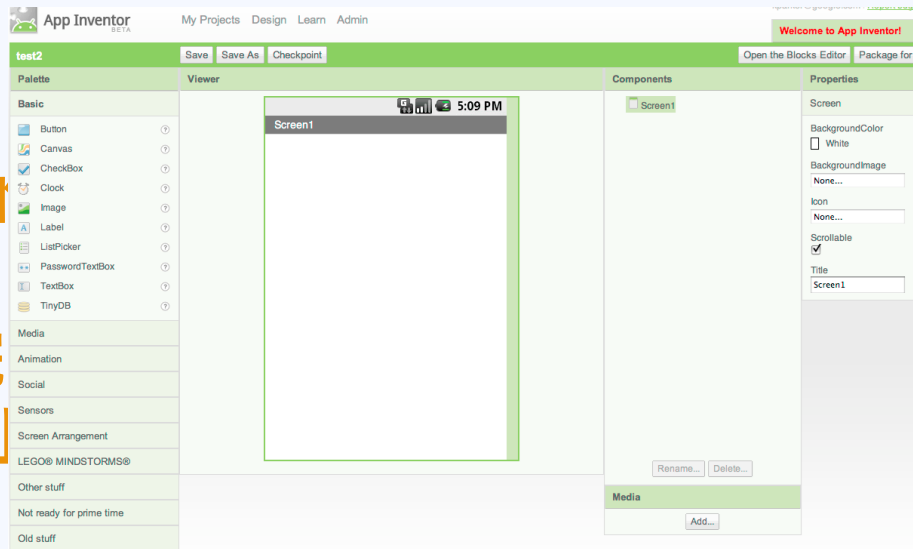
现在关注我的屏幕：

LISTEN TO ME AND COPY WHAT I DO ON MY SCREEN

I WILL ALSO EXPLAIN THE FEATURES OF MIT APP INVENTOR ALONG THE WAY

听我☒ 并复制我在屏幕上所做的

我也会解☒ 一下麻省理工学院的特色☒ 用程序☒ 明者一路



Do this:

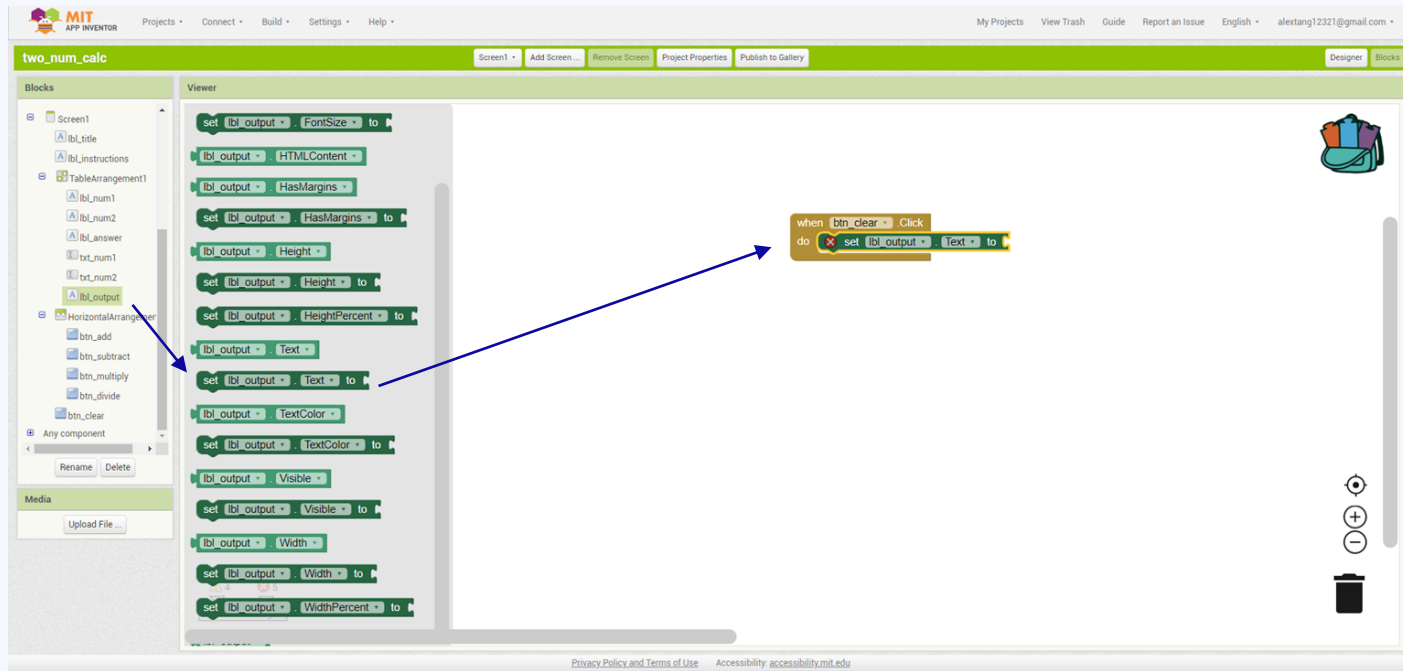
做这个：

The screenshot displays the MIT App Inventor web interface for a project named "two_num_calc". The interface is divided into several sections:

- Top Bar:** Shows the project name "two_num_calc" and navigation options like "Screen1", "Add Screen...", "Remove Screen...", "Project Properties", and "Publish to Gallery".
- Left Panel (Blocks):** Lists the components used in the project, including "Screen1", "libL_title", "libL_instructions", "TableArrangement1", "libL_num1", "libL_num2", "libL_answer", "txt_num1", "txt_num2", "libL_output", "HorizontalArrangement1", "btn_add", "btn_subtract", "btn_multiply", "btn_divide", and "btn_clear".
- Right Panel (Viewer):** Shows the visual representation of the app. A button labeled "btn_clear" is visible. A blue arrow points from the "btn_clear" block in the "Viewer" section to the "btn_clear" block in the "Blocks" section.
- Bottom Panel (Code):** Displays the event-driven code for the "btn_clear" button. The code includes:
 - When "btn_clear" is clicked, do:
 - when "btn_clear" is Gofocus
 - when "btn_clear" is LongClick
 - when "btn_clear" is LostFocus
 - when "btn_clear" is TouchDown
 - when "btn_clear" is TouchUp
 - set "btn_clear" BackgroundColor to
 - set "btn_clear" Enabled to
 - set "btn_clear" FontBold to

Do this:

做这个：



Do this:

做这个：

The screenshot shows the MIT App Inventor interface for a project named "two_num_calc". The interface is divided into three main sections: a left sidebar for "Blocks", a central "Viewer" area, and a right "Designer" area.

- Blocks Panel (Left):** Contains a list of components. Under "Screen1", the text field "txt_num1" is selected and highlighted in yellow. A blue arrow points from this selection to the "set txt_num1 . Text" block in the Viewer.
- Viewer (Center):** Displays a vertical stack of blocks for the selected "txt_num1" component:
 - HintColor
 - set txt_num1 . HintColor to
 - MultiLine
 - set txt_num1 . MultiLine to
 - NumbersOnly
 - set txt_num1 . NumbersOnly to
 - ReadOnly
 - set txt_num1 . ReadOnly to
 - Text
 - set txt_num1 . Text to
 - TextColor
 - set txt_num1 . TextColor to
 - Visible
 - set txt_num1 . Visible to
 - Width
 - set txt_num1 . Width to
- Designer (Right):** Shows a "when btn_clear . Click" event block with a "do" loop containing two blocks:
 - set lbl_output . Text to
 - set txt_num1 . Text to

Navigation and utility icons are visible at the top and right of the interface.

Do this:

The screenshot displays the MIT App Inventor web interface for a project titled "two_num_calc". The interface is divided into several sections:

- Top Bar:** Includes navigation links for Amazon.com, Booking.com, and various services like Gmail, YouTube, Maps, News, and Translate. It also shows the user's name "alextang12321@gmail.com" and a "Customize and control Google Chrome" link.
- Project Header:** Shows the project name "two_num_calc" and several action buttons: "Screen1", "Add Screen...", "Remove Screen", "Project Properties", and "Publish to Gallery".
- Blocks Palette (Left):** A sidebar containing various code blocks categorized into "Dictionaries", "Colors", "Variables", "Procedures", and "Screen1". The "Screen1" category is expanded, showing a list of UI components like "lbl_title", "tbl_instructions", "TableArrangement1", "tbl_num1", "tbl_num2", "tbl_answer", "tbl_num1", "tbl_num2", "tbl_output", "HorizontalArrangement1", "btn_add", and "btn_subtract". The "tbl_num2" block is highlighted, and a blue arrow points from it to the event block in the viewer.
- Viewer (Center):** The main workspace showing the visual representation of the app. It displays a list of properties for the "txt_num2" component, including "Hint", "HintColor", "MultiLine", "NumbersOnly", "ReadOnly", "Text", "TextColor", "Visible", and "Width". A blue arrow points from the "when btn_clear Click" event block in the viewer to the "tbl_num2" block in the blocks palette.
- Event Block (Right):** A "when btn_clear Click" event block with a "do" block containing three "set" blocks: "set lbl_output Text to", "set txt_num1 Text to", and "set txt_num2 Text to".
- Media (Bottom):** A section for uploading media files, with an "Upload File..." button.

Do this:

做这个：

The screenshot displays the MIT App Inventor web interface for a project named "two_num_calc". The interface is divided into several sections:

- Top Bar:** Includes navigation links for "Projects", "Connect", "Build", "Settings", and "Help". On the right, it shows "My Projects", "View Trash", "Guide", "Report an Issue", "English", and the user email "alextang12321@gmail.com".
- Project Bar:** Contains buttons for "Screen1", "Add Screen...", "Remove Screen", "Project Properties", and "Publish to Gallery". On the far right, there are "Designer" and "Blocks" tabs.
- Blocks Panel (Left):** A tree view of available blocks. The "Text" category is highlighted, and a blue arrow points from it to the "set text" blocks in the code area.
- Viewer (Center):** A large white canvas where the code is executed. A blue arrow points from the "set text" blocks in the code area to the "Text" category in the Blocks panel.
- Code Area (Right):** A "when btn_clear .Click" event block containing a "do" loop with three "set text" blocks:

```
when btn_clear .Click  
do  
  set lbl_output .Text to ""  
  set txt_num1 .Text to ""  
  set txt_num2 .Text to ""
```
- Right Panel:** Features a "Media" section with an "Upload File..." button, and a vertical toolbar with icons for zooming and deleting.

At the bottom of the page, there is a footer with the text: "Privacy Policy and Terms of Use Accessibility: accessibility.mit.edu"

Do this: 做这个：

The screenshot displays the MIT App Inventor web interface for a project named "two_num_calc". The interface is divided into three main sections:

- Blocks:** A palette on the left containing various components and blocks. The "HorizontalArrangement" category is expanded, showing buttons for "btn_add", "btn_subtract", "btn_multiply", and "btn_divide". The "Any component" category is also visible.
- Viewer:** A central area showing a sequence of visual programming blocks. The top block is a "when btn_add . Click" event block, followed by a "do" block. Below it are several other event blocks for "btn_add" (GotFocus, LongClick, LostFocus, TouchDown, TouchUp) and "btn_divide" (Click). At the bottom, there are "set" blocks for "btn_add" properties: BackgroundColor, Enabled, and FontBold.
- Designer:** A right-hand area for designing the app's visual appearance, currently showing a blank white space with a trash icon and a settings icon.

Blue arrows indicate the flow of logic from the "Blocks" palette to the "Viewer" area, specifically pointing to the "when btn_add . Click" block and its associated "do" block, and to other event blocks like "when btn_add . GotFocus", "when btn_add . LongClick", "when btn_add . LostFocus", "when btn_add . TouchDown", "when btn_add . TouchUp", "when btn_divide . Click", "when btn_subtract . Click", and "when btn_multiply . Click".

Do this:

做这个：

two_num_calc

Screen1

Add Screen... Remove Screen Project Properties Publish to Gallery

Designer Blocks

Blocks

Screen1

- lbl_title
- lbl_instructions
- TableArrangement1
 - lbl_num1
 - lbl_num2
 - lbl_answer
 - txt_num1
 - txt_num2
 - lbl_output
- HorizontalArranger
 - btn_add
 - btn_subtract
 - btn_multiply
 - btn_divide
 - btn_clear
- Any component

Rename Delete

Media

Upload File...

Viewer

- set lbl_output FontSize to
- lbl_output HTMLContent
- lbl_output HasMargins
- set lbl_output HasMargins to
- lbl_output Height
- set lbl_output Height to
- set lbl_output HeightPercent to
- lbl_output Text
- set lbl_output Text to
- lbl_output TextColor
- set lbl_output TextColor to
- lbl_output Visible
- set lbl_output Visible to
- lbl_output Width
- set lbl_output Width to
- set lbl_output WidthPercent to
- show Warnings
- lbl_output

when btn_divide Click

do set lbl_output Text to

when btn_add Click

do set lbl_output Text to

when btn_subtract Click

do set lbl_output Text to

when btn_multiply Click

do set lbl_output Text to

Do this:

做这个：

MIT APP INVENTOR

Projects • Connect • Build • Settings • Help • My Projects View Trash Guide Report an Issue English • alextang12321@gmail.com •

two_num_calc

Screen1 • Add Screen... Remove Screen Project Properties Publish to Gallery

Designer Blocks

Blocks

Screen1

- lbl_title
- lbl_instructions
- TableArrangement1
 - lbl_num1
 - lbl_num2
 - lbl_answer
 - txt_num1
 - txt_num2
 - lbl_output
- HorizontalArrangement1
 - btn_add
 - btn_subtract
 - btn_multiply
 - btn_divide
 - btn_clear

Any component

Rename Delete

Media

Upload File...

Show Warnings

when btn_divide Click

do set lbl_output Text to /

when btn_add Click

do set lbl_output Text to +

when btn_subtract Click

do set lbl_output Text to -

when btn_multiply Click

do set lbl_output Text to *

Do this:

做这个：

MIT APP INVENTOR

Projects · Connect · Build · Settings · Help · My Projects · View Trash · Guide · Report an Issue · English · alex tang12321@gmail.com

two_num_calc

Screen1 · Add Screen... · Remove Screen · Project Properties · Publish to Gallery

Designer · Blocks

Blocks

- Screen1
 - lib_title
 - lib_instructions
 - TableArrangement1
 - lib_num1
 - lib_num2
 - lib_answer
 - lib_txt_num1
 - lib_txt_num2
 - lib_output
 - HorizontalArrangement1
 - btn_add
 - btn_subtract
 - btn_multiply
 - btn_divide
 - btn_clear
- Any component

Media

Upload File...

Viewer

when btn_divide Clicked

do

set lbl_output Text to (txt_num1.Text) / (txt_num2.Text)

when btn_add Clicked

do

set lbl_output Text to (txt_num1.Text) + (txt_num2.Text)

when btn_subtract Clicked

do

set lbl_output Text to (txt_num1.Text) - (txt_num2.Text)

when btn_multiply Clicked

do

set lbl_output Text to (txt_num1.Text) * (txt_num2.Text)

txt_num1

- Height
- HeightPercent
- Hint
- HintColor
- MultiLine
- NumbersOnly
- ReadOnly
- Text
- TextColor
- Visible

Demo Time!

Try out the app
for yourself!

Any questions?

演示！

自 一下 用程
序！

End of Class 2

HW: Use the project we made

Stay around if you have any immediate questions or:

Email me at Alextang12321@gmail.com if you have any questions



第 2 课结束

HW : 使用我们做的 的项目

如果您有任何问题：

请给我发电子邮件
:Alextang12321@gmail.com