

Lección 1

Lesson_1_Visualizing_Climate_Data_template Donate to App Inventor

Screens: multiCaseScreen + - ⚙️ ⚙️ Designer Blocks

Type / to search components

User Interface

- + Button
- CheckBox
- C CircularProgressIndicator
- D DatePicker
- I Image
- A Label
- » LinearProgress
- E ListView
- N Notifier
- *** PasswordTextBox
- H Slider

Phone (320 x 650) Android 5+ (Material)

Visualize Climate Data

Home Show Data

Ice Duration

Ice Duration

Privacy Policy and Terms of Use Accessibility: accessibility.mit.edu

multiCaseScreen

- HorizontalArrangment
- homeButton
- SpacerVertical
- showDataButton
- LineHorizontalArrangement
- topChartLabel
- topChart
- topChartData2
- bottomChart
- bottomChartData
- spreadsheet1

Renew Delete

spreadsheet2

Behavior

- ApplicationName: google_sheets_test
- CredentialsJson: app-inventor-366820-e535c
- SpreadsheetID: https://docs.google.com/sp

Media

app-inve...00f9.json

The screenshot displays the App Inventor Designer environment. At the top, it shows the project name "Lesson_1_Visualizing_Climate_Data_template" and a "Screens" dropdown set to "multiCaseScreen". Below the screens are tabs for "Designer" and "Blocks". A search bar is present on the left. On the left panel, there's a list of UI components: Button, CheckBox (selected), CircularProgressIndicator, DatePicker, Image, Label, LinearProgress, ListView, Notifier, PasswordTextBox, and Slider. The main area shows a smartphone screen with a blue header "Visualize Climate Data" and a navigation bar with "Home" and "Show Data" buttons. Below the bar are two charts titled "Ice Duration" with axes from -1 to 1. The bottom of the screen has links for "Privacy Policy and Terms of Use" and "Accessibility: accessibility.mit.edu". The right panel lists components under "multiCaseScreen": HorizontalArrangment, homeButton, SpacerVertical, showDataButton, LineHorizontalArrangement, topChartLabel, topChart, topChartData2, bottomChart, bottomChartData, and spreadsheet1. It also shows variables: ApplicationName (google_sheets_test), CredentialsJson (app-inventor-366820-e535c), and SpreadsheetID (https://docs.google.com/sp). At the bottom, there are "Renew" and "Delete" buttons. The footer shows the file name "app-inve...00f9.json".

← Lesson_1_Visualizing_Climate_Data_template Donate to App Inventor Screens: multiCaseScreen + - ⚙️ ⚙️

Built-in

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

multiCaseScreen

HorizontalArrang

Rename Delete

0 0 Show Warnings

```

when homeButton .Click
do open another screen screenName [Screen1]

when showDataButton .Click
do call topChartData2D .Clear
call spreadsheet1 .ReadSheet
sheetName ["Spirit Lake"]
call spreadsheet2 .ReadSheet
sheetName ["Otsego Lake"]

when spreadsheet1 .GotSheetData
sheetData
do set topChartLabel [Text] to [Spirit Lake,Orleans,Iowa]
call topChartData2D .ImportFromSpreadsheet
spreadsheet [spreadsheet1]
xColumn [Year]
yColumn [Ice]
useHeaders [true]

when spreadsheet2 .GotSheetData
sheetData
do set topChartLabel [Text] to [Otsego Lake,Cooperstown,NY]
call bottomChartData2D .ImportFromSpreadsheet
spreadsheet [spreadsheet2]

```

Lección 2 y 3

Lessons_2_and_3_Modeling_and_Cleaning_Climate_Data_template

Donate to App Inventor

Screens: drawLOBFscreen + - ⚙️ ⚙️ Designer Blocks

Type / to search components

User Interface

- Button
- CheckBox
- CircularProgress
- DatePicker
- Image
- Label
- LinearProgress
- ListPicker
- ListView
- Notifier
- PasswordTextBox
- Slider
- Spinner
- Switch

Phone (320 x 650) Android 5+ (Material)

12:30

Climate Data: Create a Model

Home Show Data Draw Line of Best Fit

Days of Ice Cover

M = B = R =

Temperature (c)

M = B = R =

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drawLOBFscreen

Appearance

AboutScreen climate Data: Create

AlignHorizontal Center : 3

AlignVertical Top : 1

BackgroundColor #FFEADEF

BackgroundImage None...

BigDefaultText

CloseScreenAnimation Default

HighContrast

OpenScreenAnimation Default

ScreenOrientation Unspecified

Media

app-inventor-00f9.json

Upload File ...

Rename Delete

Lessons_2_and_3_Modeling_and_Cleaning_Climate_Data_template [Donate to App Inventor](#) Screens: drawLOBFscreen + - ⚙️ ⚙️ Designer Blocks

Built-in

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

drawLOBFscreen

HorizontalArrang

Rename Delete

Media

app-inve...00f9.json [Upload File ...](#)

Show Warnings ⚠️ 0 ✖️ 0

```

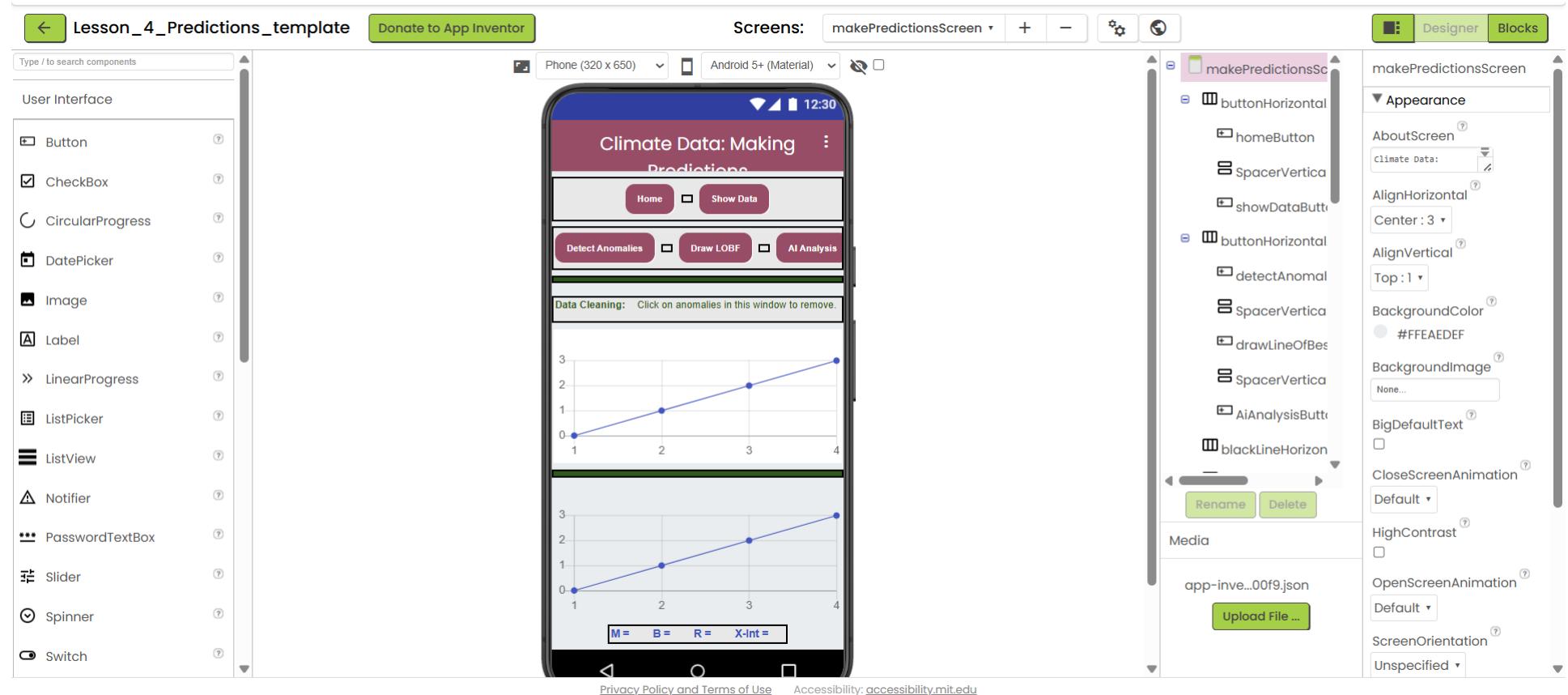
do [open another screen screenName "Screen1"]
when [showDataButton].Click
do [call [topChartData2D].Clear]
[call [bottomChartData2D].Clear]
[call [spreadsheet1].ReadSheet sheetName "Spirit Lake"]

when [spreadsheet1].GotSheetData [sheetData]
do [set [topChartLabel].Text to "Spirit Lake, Orleans, Iowa"]
[call [topChartData2D].ImportFromSpreadsheet spreadsheet "spreadsheet1" xColumn "Year" yColumn "Ice" useHeaders true]
[call [bottomChartData2D].ImportFromSpreadsheet spreadsheet "spreadsheet1" xColumn "Year" yColumn "Temp" useHeaders true]

when [drawLineOfBestFitButton].Click

```

Lección 4



Lesson_4_Predictions_template Donate to App Inventor

Screens: makePredictionsScreen + - ⚙️ 🌐

Built-in

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

makePredictionsSc

buttonHorizontal

Rename Delete

Media

app-inve...00f9.json

Upload File ...

Show Warnings

call cleanedChartData2D .Clear
call cleanedChartData2D .ImportFromList
list | call dataCleaningChartData2D .GetAllEntries

when AiAnalysisButton .Click

do

- set dataCleaningChart .Visible to false
- set dataCleaningHorizontalArrangement .Visible to false
- set AiResponseHorizontalArrangement .Visible to true
- call ChatBot1 .Converse
- question join " Dado los siguientes datos para el número anual "
 - " Número de días que el lago de agua dulce estuvo ... "
 - call dataCleaningChartData2D .GetAllEntries
 - " El coeficiente de correlación para la línea de m... "
 - Trendline1 . CorrelationCoefficient
 - " La pendiente de la línea de mejor ajuste es... "
 - Trendline1 . LinearCoefficient
 - " La intersección en "Y" para la línea de mejor aj... "
 - Trendline1 . YIntercept
 - " Primero, predice el año en el que probablemente ... "
 - " ¿Cómo se relaciona esta tendencia con el cambio ... "
 - " ¿Qué pasa con las personas que viven cerca? "
 - " Limita tus respuestas a 120 palabras "

Climate Data: Making Predictions

⋮

[Home](#)[Show Data](#)[Detect Anomalies](#)[Draw LOBF](#)[AI Analysis](#)

Spirit Lake, Orleans, Iowa

Basándome en la pendiente negativa y la intersección de la línea de mejor ajuste, predeciría que el lago probablemente no se congele por completo alrededor del año 2030.

Esta tendencia está relacionada con el cambio climático debido al calentamiento global, que aumenta las temperaturas promedio a nivel mundial. Esto lleva a períodos más cortos de congelación en lagos y cuerpos de agua.

La disminución del hielo afecta a las personas que viven cerca ya que puede afectar la pesca, el transporte acuático y la vida silvestre. También puede aumentar los riesgos de inundaciones.

