

Kodular Draco

Kodular Draco



1.3 Draco | 13 January 2019

Major Changes

- Full **HTTPS** Support *Big thanks to MIT App Inventor, specially to Jeffrey Schiller*
- **Integrated Kodular Account**, making *login & signup* easier *In order to login, you will be redirected to Kodular Account, where you can just use your Google account or any other social provider to access to Creator You will not lose any project data with this change*
- **Compressed images** making *loading* faster
- Added Target **SDK 28** (*Android 9*) for all apps
- Added **New Languages**
 - **Arabic** Language
 - **Romanian** Language

- Updated **runtime permission system** *It will now prompt for permissions when required, and not on start* [Add blocks to assist in permission workflow](#) · [mit-cml/appinventor-sources@2d19558](#) · [GitHub](#)

Companion



- Companion can be *exited* by **pressing back button**
- Companion now works **without being connected to the same WiFi network**
You can even use it with your phone connected to mobile network

UI Changes

- Added **apps' icons** at Projects Dashboard
- Added **Show & Hide All Comments** to menu in *Blocks Editor*
- Added **Social Networks** to *Splash Screen*
- Fix **erroneously shown** *edit and delete icons* on Screen Properties panel

New Components



- Added new **Bottom Navigation** component to *User Interface* category

 Bottom Navigation 

A component that create a Bottom
Navigation Menu in the app

[Learn more at docs.kodular.io](#)

- Added new **State Progress Bar** component to *User Interface* category

 State Progress Bar 

A component that create a
horizontal state progress bar.

[Learn more at docs.kodular.io](#)

- Added new **Firebase Authentication** component to *Google* category



Firebase Authentication to let users sign in with Firebase Authentication

[Learn more at docs.kodular.io](https://docs.kodular.io)

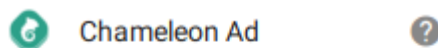
- Added new **Firebase Remote Config** component to *Google* category



Firebase Remote Config to get data from the remote config of Firebase

[Learn more at docs.kodular.io](https://docs.kodular.io)

- Moved **Firebase DB** component to *Google* category and renamed to **Firestore Database**
- Added new **Chameleon Ads** component to *Monetization* category *Find more*

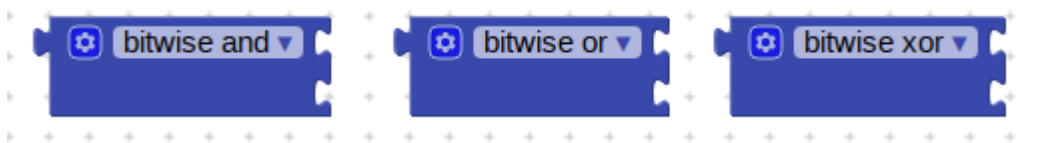


A non-visible component to show interstitial ads from the Chameleon Ads Network.

about this [HERE](#) [Learn more at docs.kodular.io](https://docs.kodular.io)

New Blocks

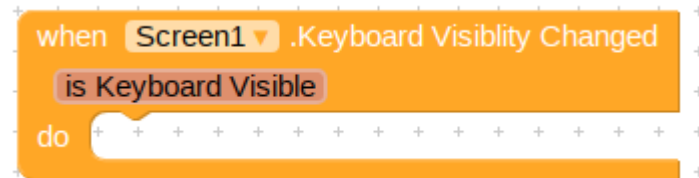
- Add new **bitwise** operator blocks to *Math* category



New Events

- **Screen**

- **Keyboard Visibility Changed** : triggered after *keyboard* becomes

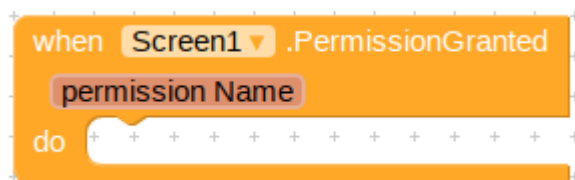


visible or hidden

- **Permission Denied** : triggered after a *permission* has been denied



- **Permission Granted** : triggered after a *permission* has been granted



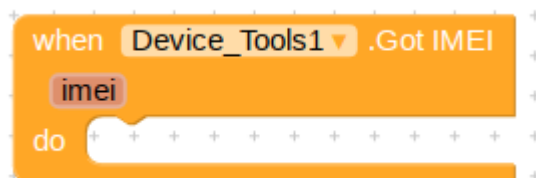
- **Chat View** component

- **Double Tap Click** : triggered after a message is *double clicked*



- **Device** component

- **Got IMEI** : triggered after the *Get IMEI* method

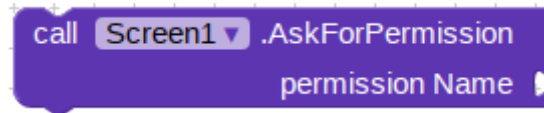


New Functions

- **Screen**

- **Ask For Permission** : prompts user asking a permission using the

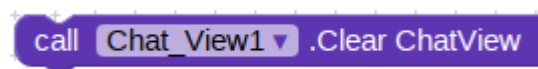
native Android method



```
call Screen1 .AskForPermission
permission Name
```

- **Chat View** component

- **Clear Chat View** : deletes all messages from layout

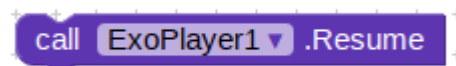


```
call Chat_View1 .Clear ChatView
```

- **ExoPlayer** component

-

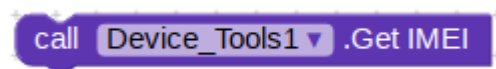
Resume : resumes the paused track



```
call ExoPlayer1 .Resume
```

- **Device** component

- **Get IMEI** : attempts to get device's IMEI code

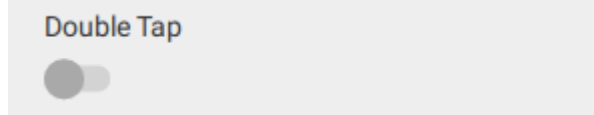


```
call Device_Tools1 .Get IMEI
```

New Properties

- **Chat View** component

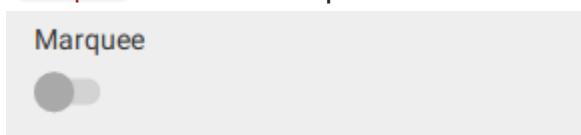
- **Double Tap** : enables double clicking messages



Double Tap

- **Label** component

- **Marquee** : adds a marquee effect to the label

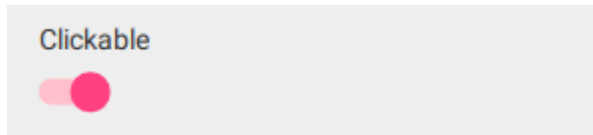


Marquee

- Support for *inline clickable links*

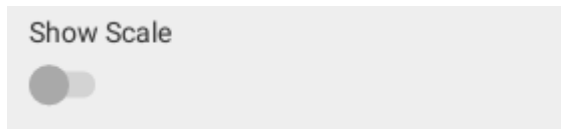
• **Lottie** component

- **Clickable** : enables Lottie layout to be clickable by the user

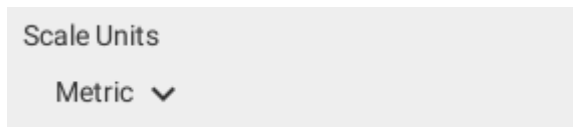


• **Map** component

- **ScaleBar** : adds a scale bar to generated map



- **ScaleUnits** : changes unit system of the scale bar



Bugs Fixed

- *Too many extensions* resulted on **compilation error**
- **Backpack icon** state was bugged with *multiple screens*
- **Screen**
 - **HighQuality** is now by default *false*
- **User Interface**
 - **Button** *border shadow* fixed
 - **Chat View** messages now have *dynamic width*
 - **Chat View** *swipe on message* fixed
- **Layout**
 - **Arrangements** *borders' color* with *IsCard* property [Changing programmatically the background color of arrangements defined as "iscard" doesn't change borders color](#)
 - **CardView** *elevation* property wasn't working properly [CardView ELEVATION property doesn't work correctly](#)

• **Drawing and Animation**

- **Lottie** Component fixed as it was causing an *unexpected error*

• **Connectivity**

- **ActivityStarter** Component fixed when *opening files*

• **Monetization**

- **AdMob** Components loading bug fixed
- **Facebook Ads** Components fixed by upgrading libraries

- Set webViewString directly to bypass event from blocks (#1320) · mit-cml/appinventor-sources@2869a13 · GitHub
- Fix null pointer when logging before user info available · mit-cml/appinventor-sources@b99cfc4 · GitHub
- Fix GeoJSON parsing in MockFeatureCollection · mit-cml/appinventor-sources@517360b · GitHub
- Make Backpack open in Firefox · mit-cml/appinventor-sources@3372a19 · GitHub
- Ensure connections added to ConnectionDB on load · mit-cml/appinventor-sources@55b5834 · GitHub
- Fix connection DB bug when workspace contains blocks with errors · mit-cml/appinventor-sources@f6f0160 · GitHub
- Stop resetting list of connections when errors occur · mit-cml/appinventor-sources@ac7c0e4 · GitHub
- Fix handling of Map.ZoomLevel when animating changes · mit-cml/appinventor-sources@6f14488 · GitHub

1.3.1 Draco | 19 January 2019

UI Changes

- Added **Carbon Ads** in *Creator* dialogs

- Fixed **Docs URL** when using *non-English language*

Companion

- Fixed **Error 1103** on Companion using *Android 9* (*when attempting to connect it was raising this error*)
- Fixed **Lottie** component in Companion (*it was crashing when trying to load it*)

New Features

- Added missing **Keep Screen On** property for **Screen**
- Added missing **Text Color** property for **Snackbar** component
- Added missing **Sign Up Success** event for **Firebase Authentication** component
- Added missing **URL** and **Token** blocks for **Firestore Database** component
- **Chameleon Ads**
 - Ads can now be **loaded with any device orientation**
 - Ads can be **closed with backpress button**
 - Ads can be **rotated**
 - Ads are now **displayed in fullscreen**
- Added missing **error Code** parameter to *Error Events* for **Chameleon Ads** component

Bugs Fixed

- Fixed **importing AIAs** from other servers which had set *Classic theme*
- **Button** component made *app crash* on devices with Android <5 (*when launching Screen, app was stopped*)
- **Label** component was not working properly with *Inline Links* (*temporall removed clickable links from it*) [How to disable inline clickable links](#)

- **List View Image and Text** component was *crashing* on devices with Android <5 (*when launching Screen, app was stopped*)
- **WebView** component bug when *requesting location* (*was not working properly*) [WebViewer Bug with Maps](#)
- **Lottie** component was crashing when no Source was found (*now it will no longer crash*)
- **Cloudinary** component was *sometimes crashing* (*some internal bugs have been fixed*)
- **Device Tools** component was requesting *too many permission* (*on app start, some unused permissions were asked*)
- **AdMob** components were *not working* (*sometimes ad requests were unsuccessful*)

1.3B.0 Draco | 03 February 2019

Major Changes

- Added full **RTL support** (*right-to-left*) for apps
- Added ability to use **strings.xml files**
- Added a **connection progress bar** to Companion

Companion

- Fixed using **Companion in Safari**

UI Changes

- Added **Google Pixel 3** phone's mock to preview
- Added **Kodular Draco** version image

New Components

- Added new **Color Utilities** component to *Experimental* category



A non-visible component that helps to convert colors and more.

[Learn more at docs.kodular.io](https://docs.kodular.io)

- Added new **Image Utilities** component to *Experimental* category



A non-visible component that loads images asynchronous to components.

[Learn more at docs.kodular.io](https://docs.kodular.io)

- Added new **Resources Utilities** component to *Experimental* category This

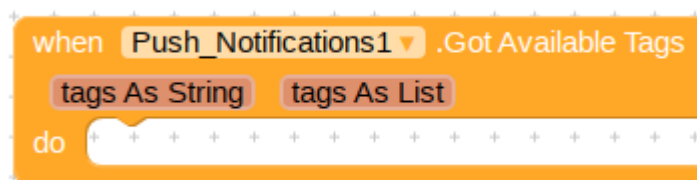


A non-visible component that makes it possible to load string resources as text.

permits the usage of `strings.xml` files [Learn more at docs.kodular.io](https://docs.kodular.io)

New Events

- **Push Notifications** component
 - `Got Available Tags` : triggered after the *Get Available Tags* method



- **Notification Opened** : triggered after opening a sent notification

```
when Push_Notifications1 ▾ .Notification Opened
  id title message
do
```

- **Notification Received** : triggered after receiving a notification

```
when Push_Notifications1 ▾ .Notification Received
  id title message
do
```

New Methods

- **Wallpaper** component

- **Clear Wallpaper** : resets the custom wallpaper to system's default one

```
call Wallpaper1 ▾ .Clear Wallpaper
```

- **Set Lockscreen Wallpaper** : changes lockscreen's wallpaper to given

```
call Wallpaper1 ▾ .Set Lock Screen Wallpaper
image
```

- **Push Notifications** component

- **Send Tag** : identifies an user based on given key to later segment them

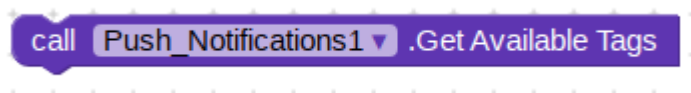
```
call Push_Notifications1 ▾ .Send Tag
key
value
```

with the set *value*

- **Delete Tag** : removes the given tag for the user

```
call Push_Notifications1 ▾ .Delete Tag
key
```

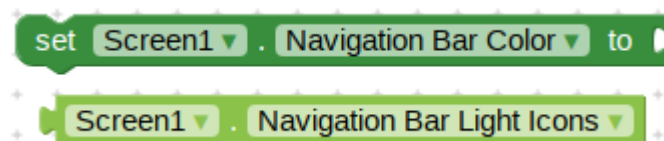
- **Get Available Tags** : returns a list of available tags



New Properties

- **Screen**

- **Navigation Bar Light Icons** : declares if Navigation Bar should use



light or dark icons

- **Chat View** component

- **Messages Border Radius** : sets a radius for messages' borders

Messages Corner Radius
5

- **Messages Font Size** : changes the font size of the text message

Messages Font Size
14.0

- **Receivers Typeface Message** : changes the font type for received

Receivers Typeface Message
Default ▼

messages

- **Receivers Typeface Message Import (.ttf)** : imports a custom font

Receivers Typeface Message Import (.ttf)
None...

type for received messages

- **Receivers Typeface Title** : changes the font type for receiver's title

Receivers Typeface Title
Default ▼

- **Receivers Typeface Message Import (.ttf)** : imports a custom font

Receivers Typeface Title Import (.ttf)
None...

type for receiver's title

- **Senders Typeface Message** : changes the font type for received

Senders Typeface Message
Default ▾

messages

- **Senders Typeface Message Import (.ttf)** : imports a custom font

Senders Typeface Message Import (.ttf)
None...

type for received messages

- **Senders Typeface Title** : changes the font type for receiver's title

Senders Typeface Title
Default ▾

- **Senders Typeface Message Import (.ttf)** : imports a custom font

Senders Typeface Title Import (.ttf)
None...

type for receiver's title

- **Timestamp Border Radius** : sets a radius for timestamp's boxes

Timestamp Corner Radius
5

- **Timestamp Font Size** : changes the font size of the timestamp's text

Timestamp Font Size
14.0

- **Title Font Size** : changes the font size of the title

Title Font Size
14.0

• Wallpaper component

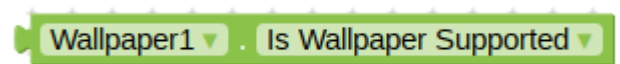
- **Is Set Wallpaper Allowed** : returns true when changing wallpaper is

allowed



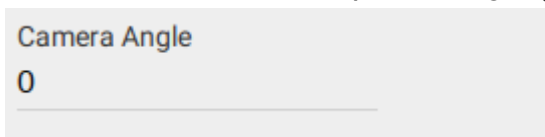
- **Is Wallpaper Supported** : returns true when changing wallpaper from

apps is allowed

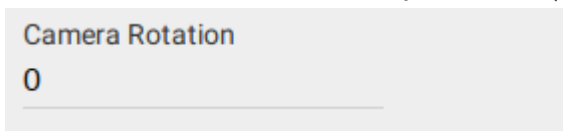


• Google Maps component

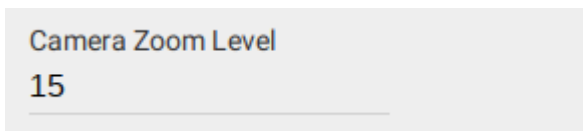
- **Camera Angle** : sets map view angle (in *degrees*)



- **Camera Rotation** : sets map rotation (in *degrees*)



- **Camera Zoom Level** : sets the altitude from where map should initialize

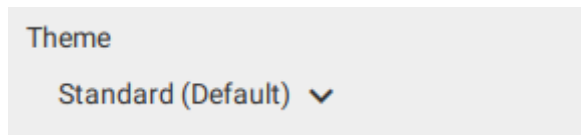


- **Style** : sets a custom theme from a JSON string for the map



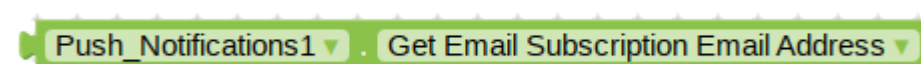
- **Theme** : sets a pre-defined theme for the map *Big thanks to @Peter for*

Kodular one

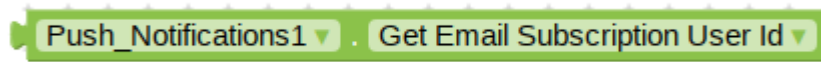


• Push Notifications component

- **Get Email Subscription Email Address** : Returns the email address of the email subscription



- **Get Email Subscription User ID** : Returns the user ID of the email subscription



Bugs Fixed

- **User Interface** category
 - **Bottom Navigation** when using *too many items* [New Bugs](#)("Maximum number of items supported by BottomNavigationView is 5. Limit can be checked with BottomNavigationView#getMaxItemCount()")
 - **Tab Layout** raised *Null Pointer Exception*
 - **Textbox** crashing when using *Copy/Paste feature*
 - **View Pager** raised *Null Pointer Exception*
- **Media** category
 - **Camera** had no permission to enable flash, *now it asks for the it*
 - **Metadata** was raising *Null Pointer Exception* [Null Metadata instead of Empty String](#)
 - **OCR** works now too with Companion by *removing deprecated libs and added runtime permission system*
- **Drawing and Animation** category
 - **Lottie** component was *not working properly on Companion*
- **Storage** category
 - **Cloudinary** had one *permission missing*
 - **Spreadsheet** was raising *Null Pointer Exception* on set cell method
- **Device** category
 - **Device Tools** component was *not working properly*
- **Google** category
 - **Google Maps** component was *broken*

- **Monetization** category

- **Admob** components were crashing sometimes

Other minor bugs which were not listed here have been fixed too, improving code performance

1.3B.1 Draco | 12 February 2019

Major Changes

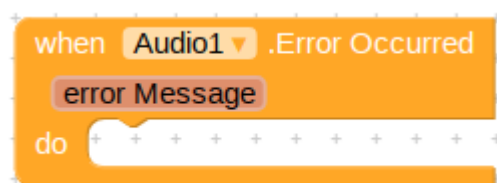
- Added ability to use **strings.json** files

UI Changes

- Redesigned **Import Extension** dialog
- Renamed *Device* category to **Utilities** category
- Moved *Animation Util*, *Color Util*, *Image Util* and *Resource Util* components to new **Utilities** category

New Events

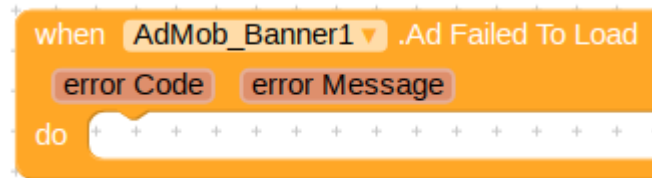
- **Audio** component
 - **Error Occurred** : triggered after an unexpected error happens



• Admob Banner component

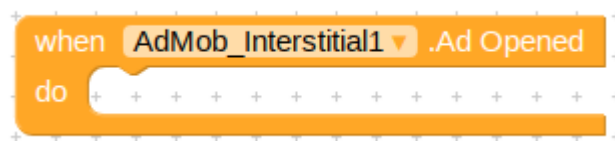
- **Ad Failed To Load** (added *Error Code* and *Error Message*

variables)



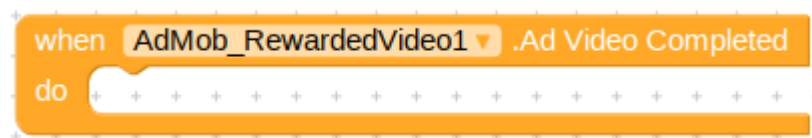
• Admob Interstitial component

- **Ad Opened** : triggered after the user clicks an Interstitial

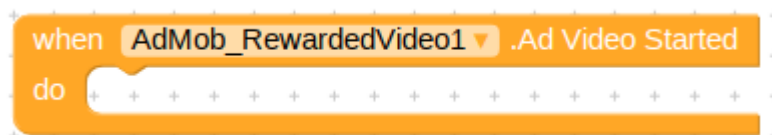


• Admob Rewarded Video component

- **Ad Video Completed** : triggered ending the video ad



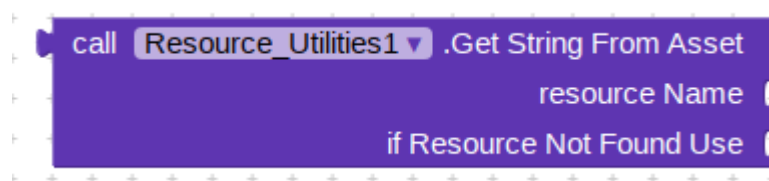
- **Ad Video Started** : triggered after the ad starts playing



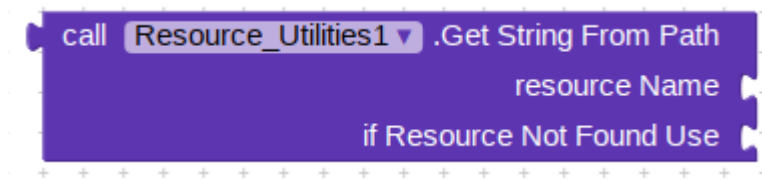
New Methods

• Resource Utilities component

- **Get String From Asset** : returns a string from the inputted key if *Resource File from Asset* is set



- **Get String From Path** : returns a string from the inputted key if *Resource File from Path* is set



- **Get String Content By Name** *will be removed in future releases*

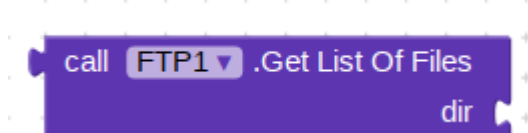


• FTP component

- **Delete Dir** : deletes the given directory if exists



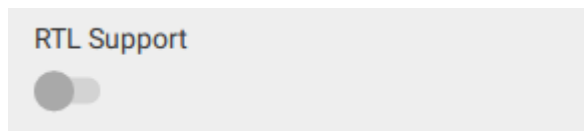
- **Get List of Files** : returns a list of files in given directory if exists



New Properties

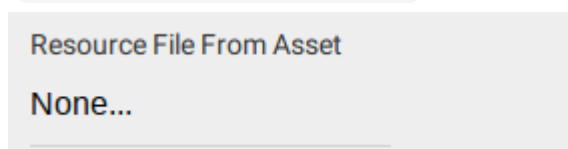
• Screen

- **RTL Support** : enables or disables the RTL interface



• Resource Utilities component

- **Resource File From Asset** : sets the file to work with



- **Resource File From Path** : loads the file to work with from the given



Bugs Fixed

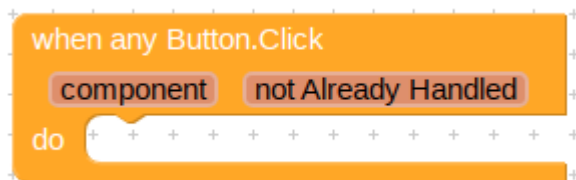
- **Screen**
 - **Title Bar Back Button** was *not handled* when locking Side MenuLayout
- **User Interface** category
 - **List View Image and Text** was *not loading images* on Android below 5.0
 - **Notifier** was sometimes returning a *Null Pointer Exception*
 - **Textbox** was buggy when using *Copy/Paste feature*
- **Layout** category
 - **Surface View** was raising sometimes a *Null Pointer Exception*
- **Social** category
 - **Sharing** component was not working when using *share file with a custom package name*
- **Monetization** category
 - **Admob** components were not working properly when publishing to Play Store
 - **Amazon Ad** component was sometimes returning a *Null Pointer Exception*

Other minor bugs which were not listed here have been fixed too, improving code performance

1.3B.2 Draco | 27 March 2019

Major Changes

- Added new **Admob Validation System**
- Added **generic events** for component



- Allowed component blocks and property **getters in global declarations**



Improved Blockly controls



Cycle through warning and error blocks

UI Changes

- Fixed "No Show Again" issue in Splash Screen
- Moved **copy before paste** in workspace menu
- Moved "Empty Backpack" menu item to Backpack menu

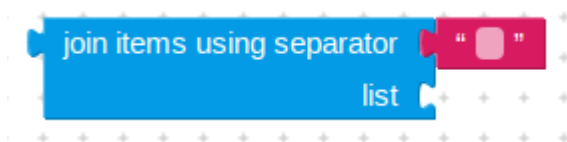
- Added menu option to **hide workspace controls**
- **Fixed palette not showing** when removing screen from blocks editor
- Implemented menu option to **make component blocks generic**

Companion

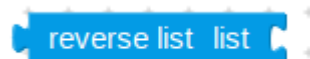
- **Improved connection** between Companion and WebRTC Server

New Blocks

- Implemented join-with-separator block

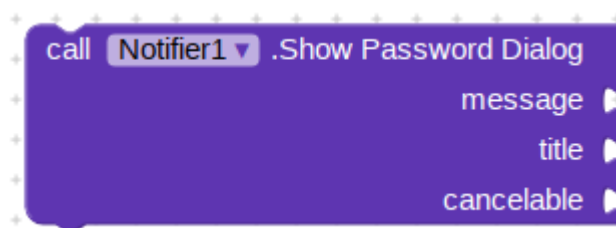


- Implemented list reverse block



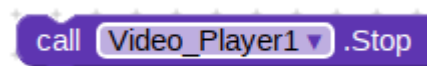
New Methods

- **Notifier** component
 - **Show Password Dialog** : displays a new password dialog



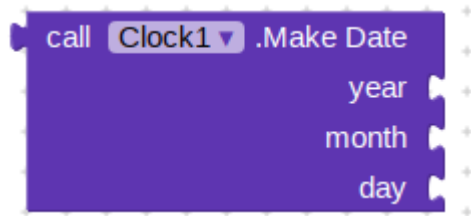
- **Video Player** component

- **Stop** : stops the currently playing video

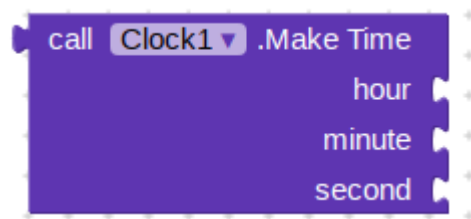


• **Clock** component

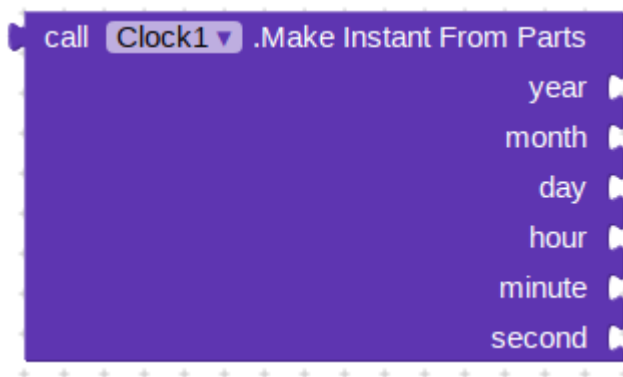
- **Make Date** : returns a formatted date from the given inputs



- **Make Time** : returns a formatted time from the given inputs



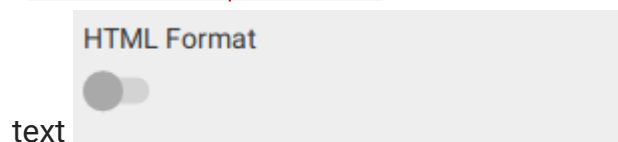
- **Make Instant from Parts** : returns an instant from the given inputs



New Properties

- **Button** component

- **HTML Format | Advanced** : enables the HTML formatting of Buttons'



Bugs Fixed

- **User Interface** category

- **Notifier** dialogs button text now use *accent color*

- **Maps** category

- Ensured **Polygon Points** and **Hole Points** *invalidate map view*
- Fixed *mapview invalidation* when **Marker** visibility changed

- **Storage** category

- **Firestore DB** was raising some *null pointer exceptions*

- **Monetization** category

- **Admob** now make usage of the new [Admob Validation System](#), which improves load time when app is not installed from Google Play Store
- **Amazon Ads** *publisher id* problem is fixed
- **Chameleon Ads** component is now *hidden*
- **Facebook Ads** components did *not load the ad* sometimes
- **Whitemobi** component is now *hidden*

Other minor bugs which were not listed here have been fixed too, improving code performance

1.3B.3 Draco | 01 May 2019

Major Changes

- **Locale is now preserved when you leave Kodular** *If you change the locale and leave Kodular, next time you visit, your language selection will be saved*

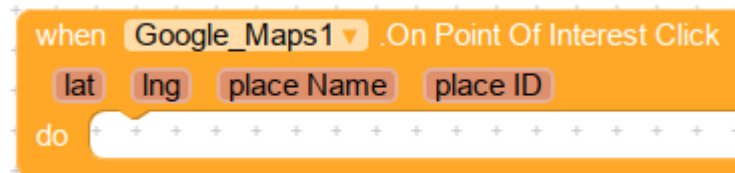
UI Changes

- Added **Get Keystore SHA-1** to Keystore menu

New Events

- **Maps** component

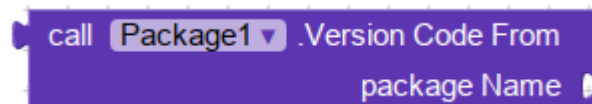
- **On Point Of Interest Click** : triggered when an user clicks on a point of interest like shops or monuments [Google Maps component](#) [show only certain points of interest?](#)



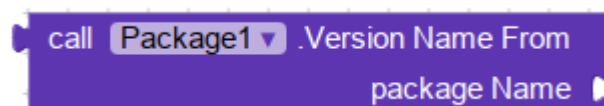
New Methods

- **Package** component

- **Version Code From** : returns the version code of an app [**Package Component In Kodular Creator**](#)



- **Version Name From** : returns the version name of an app [**Package Component In Kodular Creator**](#)



- **Custom Tabs** component

- **Add Menu Item Open App** : adds a menu item to open an app



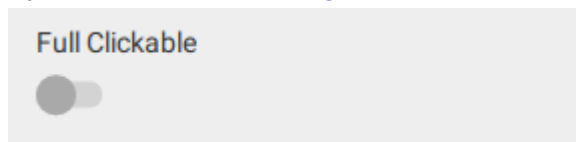
- **Add Menu Item Open Page** : adds a menu item to open a new page



New Properties

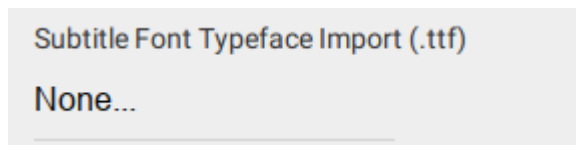
- **Arrangement** components

- **Full Clickable** : sets the whole layout to handle clicks [Full clickable option in normal arrangements?](#)

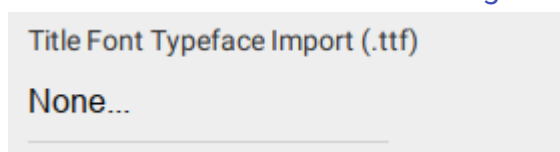


- **Listview image and Text** component

- **Subtitle Font Typeface Import** : sets a custom typeface for subtitles [How to add different ttf in list view image and text in title](#)

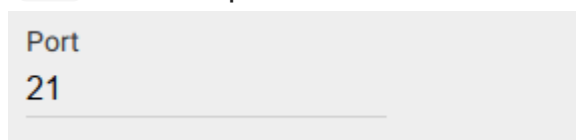


- **Title Font Typeface Import** : sets a custom typeface for titles [How to add different ttf in list view image and text in title](#)



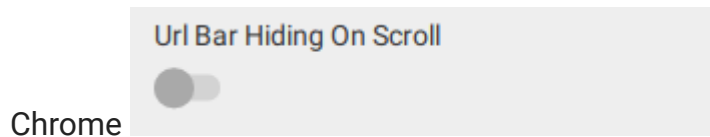
- **FTP** component

- **Port** : sets the port to use on the connection [How to connect to ftp?](#)

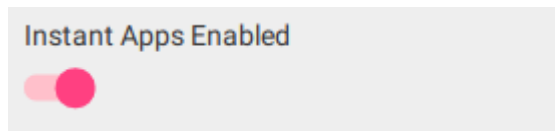


• **Custom Tabs** component

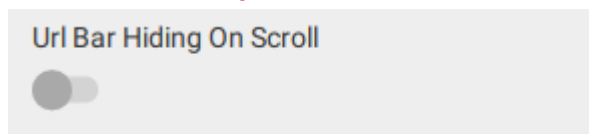
- **Default Share Menu Item** : uses the default share menu item of



- **Instant Apps Enabled** : allows the usage of Instant Apps



- **Url Bar Hiding On Scroll** : hides the URL bar when scrolling



Bugs Fixed

- **Media** category
- **Picker** components had missing permission [Ask Permission Block NOT WORKING](#)
- **Connectivity** category
- **Activity Starter** was having problems with custom package names [Problems with Activity Starter](#)
- **Experimental** category
- **Custom Tabs** now handles more tabs in the Chrome version [Chrome custom tabs problem](#)

Other minor bugs which were not listed here have been fixed too, improving code performance

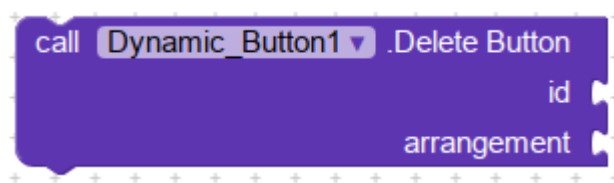
1.3B.4 Draco | 02 May 2019

Major Changes

- Added **Hungarian** language

New Methods

- **Dynamic Button** component
 - **Delete Button** : deletes the given button from the layout



Bugs Fixed

- **Layout** category
 - Temporarily disabled *Full Clickable* property in **Arrangement** components
- **Device** category
 - Fixed *Version Code* and *Version Name* in **Package** component
- **Monetization** category
 - Fixed **Billing** component which was not working properly

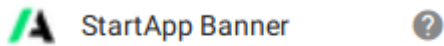
1.3C.0 Draco | 05 June 2019

Major Changes

- We now take commission from all Interstitial Ad components by using [this system](#)

New Components

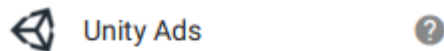
- Added new **StartApp Banner** component to *Monetization* category



Component for displaying banner ads from StartApp Ads.

[Learn more at docs.kodular.io](https://docs.kodular.io)

- Added new **Unity Ads** component to *Monetization* category



A non-visible component to show ads from Unity Ads.

[Learn more at docs.kodular.io](https://docs.kodular.io)

Bugs Fixed

- Fixed **critical security issue** regarding projects storage

1.3C.1 Draco | 06 June 2019

Bugs Fixed

- Fixed little issue in **Admob Interstitial**
- **Unity Ads** was not checking if ad was approved

1.3C.2 Draco | 17 June 2019

Major Changes

- Now a **dialog pop ups in the app** if it requests to load ads and it is not approved

Bugs Fixed

- Fixed issue in **Admob Banners** and **Admob Interstitials**
- Fixed **ExoPlayer** bug with *Resume* block
- Fixed little issue with **StartApp Banner**

Last update: January 26, 2020