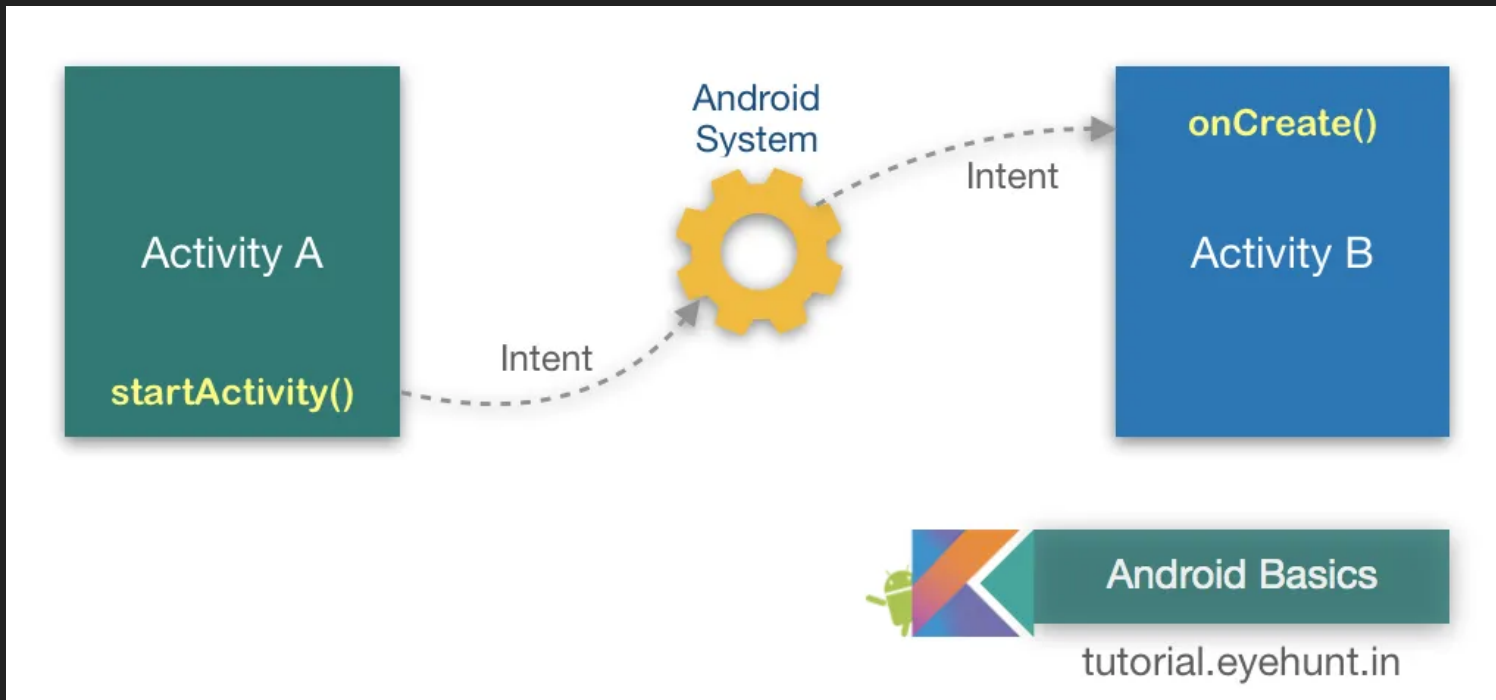


Intents

Définition



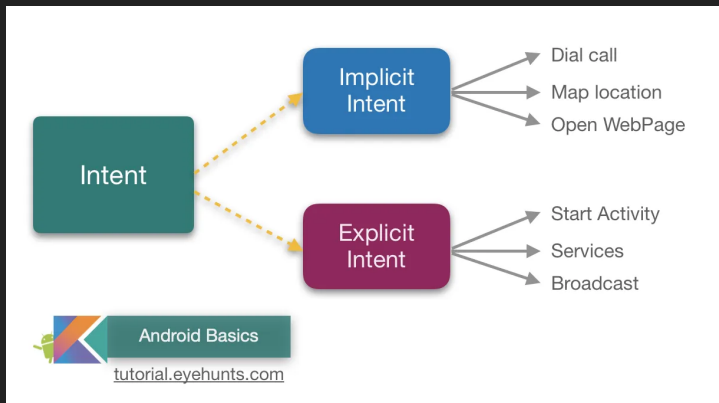
Un objet contenant les infos nécessaires à démarrer une **Activity** (en général) ➡

Conceptuellement proche d'un lien HTML

Sert aussi (plus rarement) à démarrer un **Service** ou à envoyer un **Broadcast**

Un intent peut être "lancé" par une application ou par le système

Explicit / Implicit



```
val explicitIntent = Intent(this, MyActivity::class.java)

// implicit intents:
val callButtonIntent = Intent(Intent.ACTION_CALL_BUTTON)
val urlIntent = Intent(Intent.ACTION_VIEW, Uri.parse("http://www.google.com"))
val phoneIntent = Intent(Intent.ACTION_DIAL, Uri.parse("tel:8005551234"))

// use:
startActivity(intent)

// To use later (ex: in Notifications)
val pendingIntent = PendingIntent.getActivity(this, 1, intent, FLAG_UPDATE_CURRENT) // Parcelable
pendingIntent.send()
```

Send

```
// Preparing data in sending Activity:
val intent = Intent(this, SecondActivity::class.java)

intent.data = Uri.parse("http://www.google.com") // Web URL
intent.data = Uri.fromFile(File("/file_path/file.jpg")) // File URI
intent.putExtra("level", 406) // Int extra
val array = arrayOf("Rice", "Beans", "Fruit")
intent.putExtra("food", array) // Array extra

val bundle = Bundle() // Use bundle to prepare a lot of data
bundle.putFloat("percent", 58f) // Float data
intent.putExtras(bundle) // Put whole bundle

val UNIQUE_KEY = packageName + ".extra.MESSAGE"
intent.putExtra(UNIQUE_KEY, "Hello Activity!")

startActivity(intent)

// Getting data in receiving activity:

val uri = intent.data
val level = intent.getIntExtra("level", 0)
val food = intent.getStringArrayExtra("food")

val bundle = intent.extras
val percent = bundle.getFloat("percent")
```

Intent Filters

```
<activity android:name="ShareActivity">
  <intent-filter>
    <action android:name="android.intent.action.SEND" />
    <action android:name="android.intent.action.SEND_MULTIPLE"/>
    <category android:name="android.intent.category.DEFAULT" />
    <data android:mimeType="text/plain" />
    <data android:mimeType="image/*" />
    <data android:mimeType="video/*" />
  </intent-filter>
</activity>
<activity android:name="BrowserActivity">
  <intent-filter>
    <action android:name="android.intent.action.VIEW" />
    <category android:name="android.intent.category.BROWSABLE" />
    <data android:scheme="https" />
    <data android:host="developer.android.com" />
  </intent-filter>
  <intent-filter>
    <category android:name="android.intent.category.LAUNCHER" />
  </intent-filter>
</activity>
```

Requesting

```
// setup in requesting Activity

val intent = Intent(this, SecondActivity::class.java)
const val UNIQUE_REQUEST_CODE = 666
startActivityForResult(intent, UNIQUE_REQUEST_CODE)

public override fun onActivityResult(
requestCode: Int, resultCode: Int, data: Intent?) {
    super.onActivityResult(requestCode, resultCode, data)
    if (requestCode == UNIQUE_REQUEST_CODE && resultCode == Activity.RESULT_OK) {
        val reply = data!!.getStringExtra(SecondActivity.EXTRA_REPLY)
        // ... do something with the data
    }
}

// use in requested Activity

const val EXTRA_REPLY = "reply_key"
intent.putExtra(EXTRA_REPLY, "Done !")
setResult(RESULT_OK, intent)
finish()
```

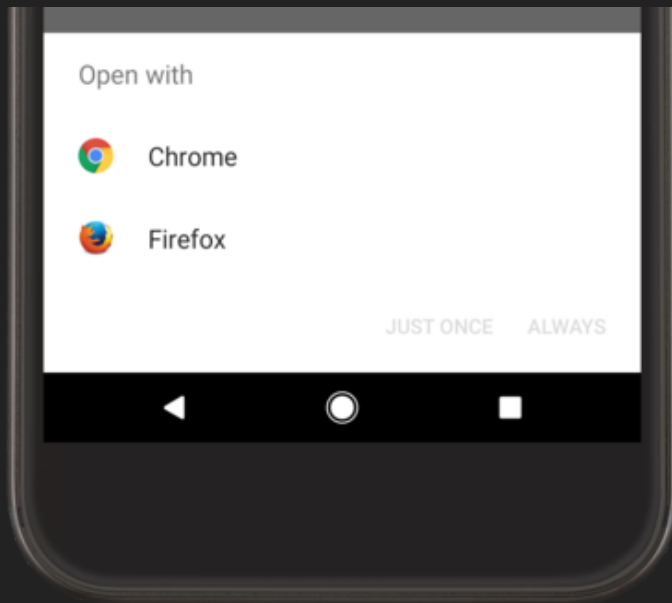
Specifying implicit intents

```
val intent = Intent(Intent.ACTION_WEB_SEARCH)  
intent.putExtra(SearchManager.QUERY, "query")
```

```
val intent = Intent(Intent.ACTION_CREATE_DOCUMENT)  
intent.type = "application/pdf" // set MIME type  
intent.addCategory(Intent.CATEGORY_OPENABLE)
```

Resolving intents

```
// Check if that intent can be handled !  
if (intent.resolveActivity(packageManager) != null) {  
    startActivity(intent) // if no result needed, otherwise: ↴  
    startActivityForResult(intent, ACTIVITY_REQUEST_CREATE_FILE)  
}
```



Using Chooser Intent / Sharesheet



```
// using Chooser Intent / Sharesheet
val intent = Intent(Intent.ACTION_SEND)
val chooserIntent = Intent.createChooser(intent, "Chooser Title")
if (intent.resolveActivity(packageManager) != null) {
    startActivity(chooserIntent)
}
```

New API

```
// Asking for an image
val getContent = registerForActivityResult(GetContent()) { uri: Uri? -> // Handle the returned Uri }
// ...
getContent.launch("image/*")

// Asking for a result
val startForResult = registerForActivityResult(StartActivityForResult()) { result: ActivityResult ->
    if (result.resultCode == Activity.RESULT_OK) {
        val intent = result.intent
        // Handle the Intent
    }
}
// ...

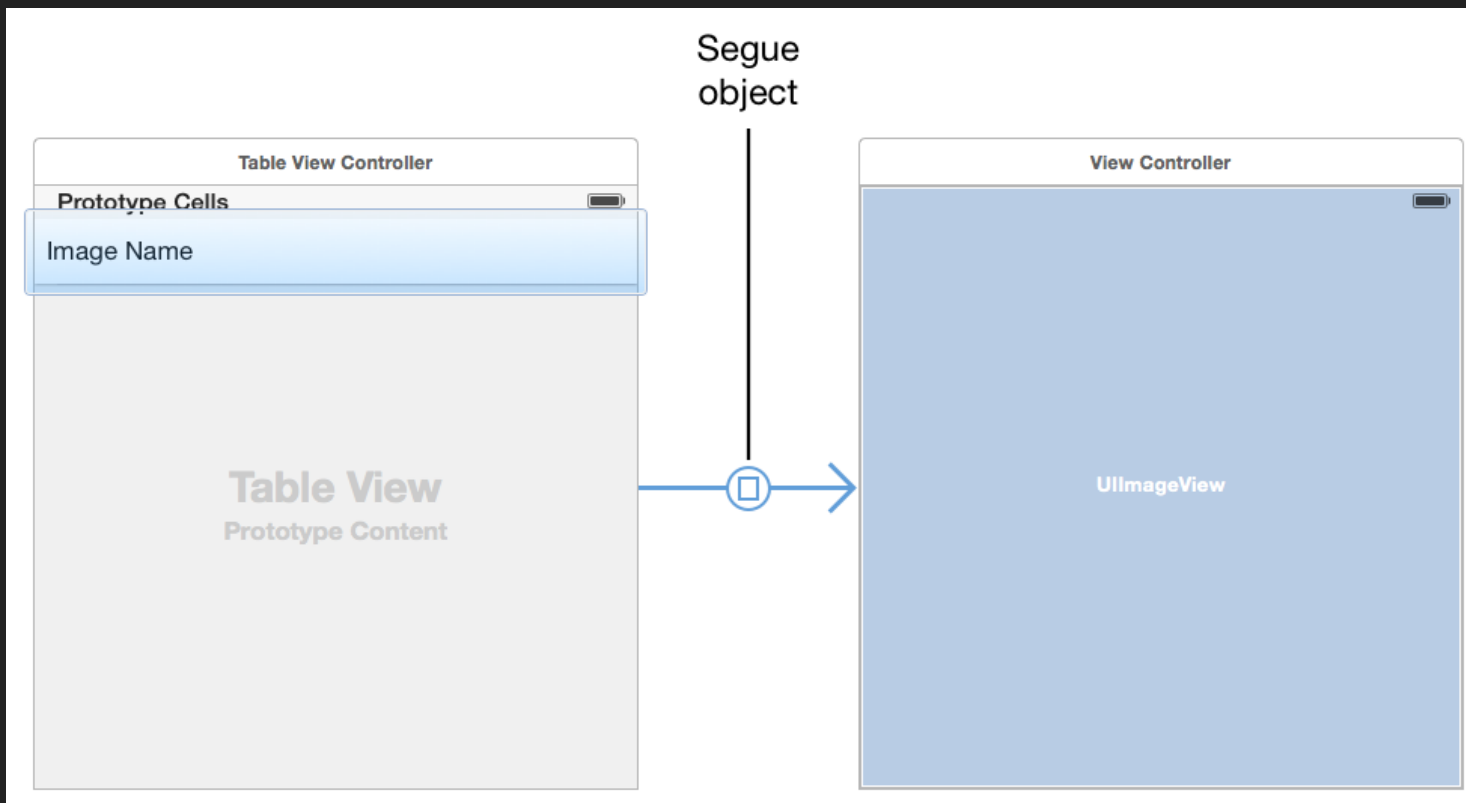
startForResult.launch(Intent(this, ResultProducingActivity::class.java))
```

Also:

- [Default ActivityResultContracts](#)
- [Creating a custom contract](#)

ios

segues



```
self.performSegue(withIdentifier: "SECOND_SCREEN_SEGUE", for sender: self)
```

[Documentation](#)

Handmade delegates for results

```
protocol ImageDelegate{  
    func onImageReceived(_ picker: ImagePickerController, didReceiveValue value: UIImage)  
    func onCancel(_ picker: ImagePickerController)  
}  
  
class TakePictureController : UIViewController, ImageDelegate{ ... }
```

Share Extensions

Separate module with custom code configured with plist:

General

Signing & Capabilities

Resource Tags

Info

Build Settings

Build Phases

Build Rules

PROJECT

TestExtension

TARGETS

TestExtension

Share

▼ iOS Target Properties

Key	Type	Value
Bundle version string (short)	String	1.0
Bundle identifier	String	\$(PRODUCT_BUNDLE_IDENTIFIER)
▼ NSExtension	Dictionary	(4 items)
▼ NSExtensionAttributes	Dictionary	(1 item)
▼ NSExtensionActivationRule	Dictionary	(1 item)
NSExtensionActivationSupportsImageWithMaxCount	String	1
NSExtensionPointIdentifier	String	com.apple.share-services
NSExtensionMainStoryboard	String	MainInterface
New item	String	
Bundle name	String	\$(PRODUCT_NAME)