

# UDACITY Nanodegree

## 학습 매뉴얼

[www.udacity.com](http://www.udacity.com)



1.



**Bootcamp Quality at 1/10 of the Cost**

Udacity is the world's fastest, most efficient way to master the skills tech companies want. 100% online, part-time & self-paced.

[LEARN MORE](#)

Industry leading programs built and recognized by top companies worldwide

Only at Udacity: Job-Ready Skills

	UDACITY	OTHERS
Learn by doing	✓	x
Practitioner-level skills	✓	x
Job-focused content	✓	x
Real human help	✓	x
Personalized code reviews	✓	x
Real-life projects	✓	x

홈페이지 상단의 "MY CLASSROOM"을 클릭하여 강의실로 입장합니다.

2.

Your Latest Activity

[RESUME LESSON 2](#)

Lesson 2: Building Layouts: Part 1

"Your Latest Activity"를 통해 최근 수강한 과정을 확인할 수 있습니다.

3.

LESSON 2

**Building Layouts: Part 1**

Learn how to place layouts on a page to create images, buttons, and text on a phone screen

[계속 →](#)

6%

**1 hour 53 minutes left**

해당 차시의 남은 수강 시간도 확인이 가능합니다.

4.

Lesson 13:  
Arrays, Lists, Loops, & Custom Views
차시명

검색 🔍

자료 ▲

**CONCEPTS** 학습내용

- ✓ 1. Lesson 2 Course Map
- ✓ 2. When to Use Arrays
- ✓ 3. Quiz: Working with an Array
- ★ 4. Quiz: Add Words to NumbersAc...
- ✓ 5. Quiz: Verify Array Elements wit...
- ✓ 6. Working with An ArrayList
- ✓ 7. Quiz: Working with an ArrayList...
- ★ 8. Quiz: Switch from Array to Arra...
- 9. Add Text Views to the Layout B...
- 10. Intro to Loops
- ★ 11. Quiz: Add TextViews to Layout...
- ★ 12. Quiz: Use the For Loop

Mentor Hel 💡
실시간 학습문의

수강을 원하는 차시에 접속하게 되면, 좌측에 해당 차시의 학습목록이 나옵니다.

여기에서 이번 시간에 어떤 내용을 학습하게 되는지 확인하실 수 있습니다.

또한 실시간으로 멘토에게 학습에 대한 문의를 남길 수도 있습니다.

학습 내용은, 동영상 강의나 이미지, 퀴즈 등을 통해 학습을 진행할 수 있도록 구성되어 있습니다.

Build List Item Layout
동영상

```

1 <?xml version="1.0" encoding="utf-8"?>
2 <!-- Copyright (C) 2006 The Android Open Source Project
3
4 Licensed under the Apache License, Version 2.0 (the "License");
5 you may not use this file except in compliance with the License.
6 You may obtain a copy of the License at
7
8 http://www.apache.org/licenses/LICENSE-2.0
9
10 Unless required by applicable law or agreed to in writing, software
11 distributed under the License is distributed on an "AS IS" BASIS,
12 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
13 See the License for the specific language governing permissions and
14 limitations under the License.
15
16
17 <TextView xmlns:android="http://schemas.android.com/apk/res/android"
18 android:id="@android:id/text1"
19 android:layout_width="match_parent"
20 android:layout_height="wrap_content"
21 android:textAppearance="@android:attr/textAppearanceListItemSmall"
22 android:gravity="center_vertical"
23 android:paddingStart="@android:attr/ListItemPreferredPaddingStart"
24 android:paddingEnd="@android:attr/ListItemPreferredPaddingEnd"
25 android:minHeight="@android:attr/ListItemPreferredMinHeight" />
                
```

이제 두 개의 TextView로 자체 레이아웃을 구축해 보겠습니다.

WORKING WITH AN ARRAYLIST
퀴즈

Assume that this code lives within a Restaurant App where each user can make a list of restaurants they want to try. Write out the correct code statement underneath each comment.

// Create new ArrayList object called restaurantsToTry. It will contain a list of Strings.

// Add a restaurant called "Morning Cafe" to the ArrayList

// Add another restaurant called "BBQ Time" to the ArrayList

// User has just tried the "Morning Cafe" restaurant. Remove the restaurant from the ArrayList.

// Get the length of the list and store it in an integer variable called numberOfRestaurants

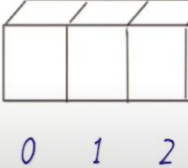
인트로 보기
정답 보기
답 제출하기

5.

### LESSON 2 Details

- Learn about how to store

Arrays vs



0 1 2

그리고 우리는 배열과 같은 데

동영상

영어 >> 한국어  
설정을 확인하려면 \* 을 클릭하세요.

```

1 <?xml version="1.0" encoding="utf-8"?>
2
3
4
5
6
7
8 http://www.apache.org/licenses/LICENSE-2.0
9
10 Unless required by applicable law or agreed to in writing, software
11 distributed under the License is distributed on an "AS IS" BASIS,
12 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
13 See the License for the specific language governing permissions and
14 limitations under the License.
15
16
17 <TextView xmlns:android="http://schemas.android.com/apk/res/android"
18 android:id="@android:id/text1"
19 android:layout_width="match_parent"
20 android:layout_height="wrap_content"
21 android:textAppearance="?android:attr/textAppearanceListItemSmall"
22 android:gravity="center_vertical"
23 android:paddingStart="?android:attr/listPreferredItemPaddingStart"
24 android:paddingEnd="?android:attr/listPreferredItemPaddingEnd"
25 android:minHeight="?android:attr/listPreferredItemHeightSmall" />
                    
```

이제 두 개의 TextView로 자체 레이아웃을 구축해 보겠습니다.

동영상 강의의 자막은 영상 우측 하단에서 국문 / 영문 선택이 가능합니다.

### WORKING WITH AN ARRAYLIST

5	10			23
---	----	--	--	----

soccer

Which option of code would create

Option 1     Option 2

인트로 보기

퀴즈

Assume that this code lives within a Restaurant App where each user can maintain a list of restaurants that they want to try. Write out the correct code statement underneath each comment.

// Create new ArrayList object called restaurantsToTry. It will contain a list of Strings.

// Add a restaurant called "Morning Cafe" to the ArrayList

// Add another restaurant called "BBQ Time" to the ArrayList

// User has just tried the "Morning Cafe" restaurant. Remove the restaurant from the ArrayList.

// Get the length of the list and store it in an integer variable called numberOfRestaurants

인트로 보기

퀴즈는 선택형 퀴즈, 주관식 퀴즈 등으로 진행이 되며, 퀴즈를 풀기 전 인트로 영상이나 요약 설명이 제공됩니다.

## Checking the build.gradle file

When importing someone else's code into Android Studio, you should normally use the same package versions and target SDK settings that the original code was designed to use. Keeping your own projects up to date is always a good practice, though.

Since Android is always releasing new sums of SDK packages, whenever you open or import an old project in Android Studio, you may see an alert saying that the plugin is too old:



Android Studio will warn you if you import a project whose gradle version is too old

To resolve this, click on the hyperlink "Fix Gradle version (as part of the update, the Android plugin will be updated to version 2.3.3) Open Documentation" which opens up the documentation with instructions on how to resolve the issue.

Alternatively, you can update the Gradle version directly by navigating to Gradle Scripts, double-clicking the build.gradle file to open and edit the file:



글과 이미지를 활용한 학습도 진행됩니다.  
학습자들은 이미지를 통해 학습 이해도를 높일 수 있습니다.

6.

**실시간 학습문의**

The screenshot displays the 'Mentor Help' section of the Udacity platform. On the left, a list of questions is shown, sorted by 'RECENT'. The first question, 'how can i send a project already done? for example, i made a first project but i want to make it again....', is highlighted with a red arrow. Below it are two other questions: 'Cleaning Data in project 1 of Marketing Analytics' and 'Tableau isnt automatically joining my tables - It gives a warning sign'. Each question includes the user's profile picture, name, and the time it was posted, along with an 'Insights from Data' button.

The right side of the screenshot shows the detailed view of the first question. It includes the question text, the user's name 'isis P' and the time '1 day ago', and the question text in Portuguese: 'como posso enviar um projeto já feito? por exemplo, fiz um primeiro projeto, mas quero fazer de novo....'. Below the question are buttons for 'COMMENT', 'ANSWER', and 'REPORT'. Underneath, there is one answer from a user named 'Abhishek A' (Mentor) posted '1 day ago'. The answer text reads: 'Hi, Isis! If you've already submitted the project, I suggest that you wait for the project to be reviewed, take the review comments into account and then make another submission. If you've submitted a wrong file, you can navigate back to the SUBMIT PROJECT section, you should see an option that should say something like: 'uploaded the wrong file?'. You will be able to upload your updated correct submission here. If you're facing a technical issue while submitting the project, please contact support@udacity.com I hope this answers your question. Good luck with your submission! :) PS. Please note that if you've successfully passed a project, you will not be able to make any further submissions for the same project. (edited)'. At the bottom of the answer, there is a 'Mentor' badge and the user's name 'Abhishek A'.

**학습 진행 중 학습 관련 문의사항은 “Mentor Help”를 이용하면 됩니다. 문의를 남기면 전문가인 Mentor가 답변을 남기는 형태로 진행됩니다.**

**다른 학습자의 문의 및 멘토 답변도 확인 가능합니다.**

7.

**프로젝트 사례**

**Malarial Deaths in Africa from (2010-2014)**

The insights drawn from Malaria Deaths in Africa from (2010-2014) can be broadly categorized into three categories: -

**Insight 1:- African countries most and least prone to malaria :-**

Kenya followed by Democratic Republic of the Congo followed by Angola had highest no. of death and average no. of deaths per day. While Carbo Verde, Egypt and Algeria had reported miniscule average deaths per day and avg. deaths.

**Comparison of most prone countries to Malaria to less prone countries: -**

I imported data from Tableau map to excel, then I sorted data on basis of No. of deaths from highest to lowest.

Below are the findings as below: -

Country	Deaths per day	Avg. Deaths	Deaths per day	Avg. Deaths	Country
Algeria	0.004	1.44	31.42	11469	Angola
Egypt	0.005	1.88	41.65	15203	Democratic Republic of the Congo
Cabo Verde	0.006	2.21	76.43	27896	Kenya

**Insight 2 :- Trend of malaria from 2000-2014 for most affected countries because of Malaria:-**

To see trend of no. of deaths (2000-2014) due to malaria for most affected African Countries. I clicked on each country on tableau map provided and checked the trend by the bar graphs which emerges for each country after clicking the map

For Kenya since 2000-2006 the no. of death was higher, but post 2006 no. of death has been drastically reduced and has come closer to 0K. Similarly, for Angola no. of deaths has been reduced since 2004. Angola saw highest no. of death in year 2003. Contrary to Kenya and Angola for Democratic Republic of the Congo death has drastically increased after 2003. Moreover, it recorded highest no. of deaths in the year of 2013.

In a nutshell For Kenya and Angola death due to malaria has been improved with time. But for Democratic Republic of the Congo its other way around.

**Insight 3: - Trend of malaria from 2000-2014 for least affected countries because of Malaria:-**

To see trend of no. of deaths (2000-2014) due to malaria for least affected African Countries. I clicked on each country on tableau map provided and checked the trend by the bar graphs which emerges for each country after clicking the map. Findings are as below:-

Average no. of death because of Malaris always lesser. No. of deaths for all 14years (2000-2014) never increased beyond 0.

It signifies that Malaria has been well controlled in these regions may be because of lesser intense Plasmodium variance or tighter surveillance efforts which does not allow any dangerous Plasmodium variance to either enter these countries or multiply.

학습자들은 학습한 내용을 토대로 프로젝트를 제출할 수 있습니다. 해당 프로젝트는 일종의 과제로써 보고서를 작성한다고 생각하시면 됩니다.

UDACITY에서 제공하는 데이터를 활용하여 프로젝트를 완수합니다.

8.

**학습방법 확인 방법**

**Android 기초**

<https://classroom.udacity.com/courses/ud1117>

\* Udacity 무료회원 가입 후 접속 가능