



# Exercise session 2

23.07.2018

Pavel Shchahelski

# Are you set up?

Do you have android studio installed?

Have you created and ran your first project?

If not yet, please do exercise 0 first, to set up your environment

Install Android Studio and Have “Hello world” running on your phone:

<https://goo.gl/7z4amC>

A decorative pattern of colorful hexagons in shades of pink, yellow, green, and purple, arranged in a scattered, overlapping manner along the bottom edge of the slide.

# Let's Begin

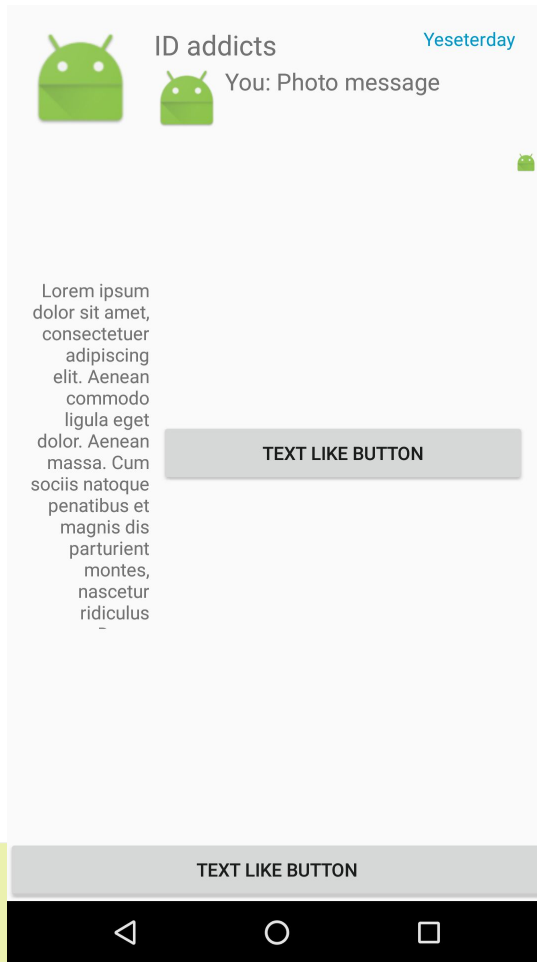
You can always use <https://goo.gl/WeY4rL> as a reference! :)



# Exercise Overview

We'll play with different layouts which were described.  
**The focus this time is on creating a complex layout using what we've learned so far.**

Go to the next slide for specs...



# Exercise Overview

If you wish you can go a bit advanced and replace images with the sample avatars using [tools](#) namespace.

**Only for preview in Android Studio**

Otherwise you can skip this slide

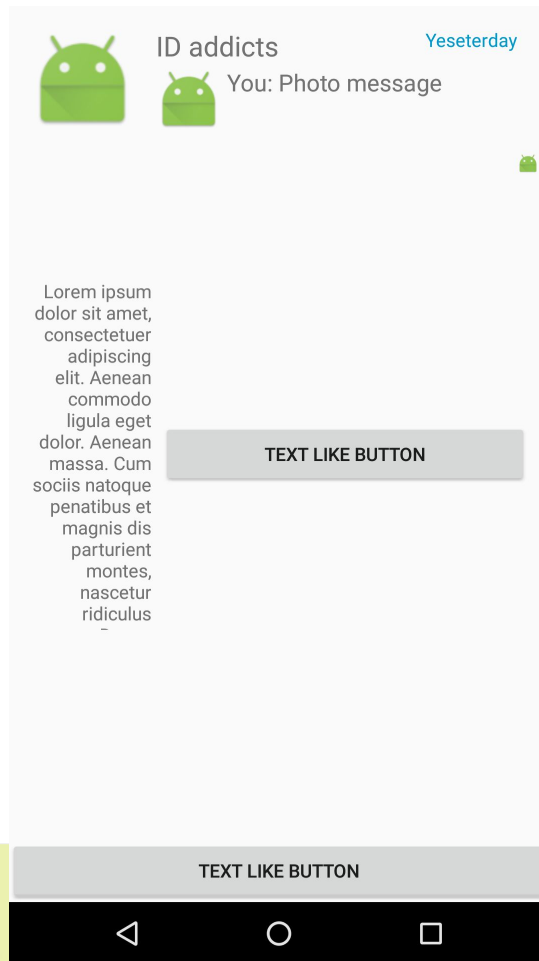


# Specs

Default generated image  
"ic\_launcher" in drawable

Random text which has  $\frac{1}{3}$  of  
the whole width and button is  
the rest

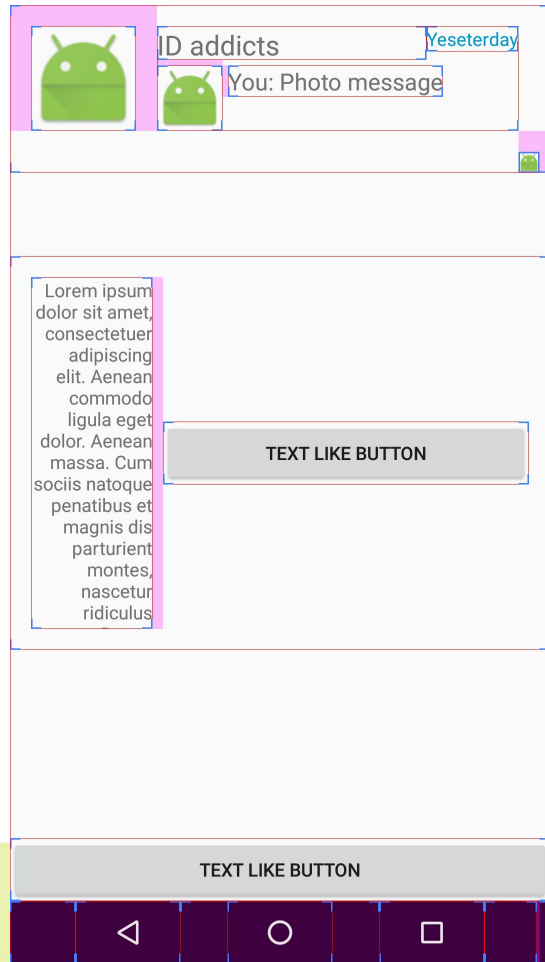
Clicking on the button  
should launch a browser  
displaying minsk page on  
wiki



# Building the layout

## Tips:

- Try and break the layout into smaller, more manageable pieces.
- Think - what are the relationships between the different Views on screen? (ex: "View1 is to the right of View2"). What are the boundaries of each View?
- Plan → code → review. Repeat as needed.
- Use both RelativeLayout and LinearLayout as needed.



# Launching the browser with specific URL

In our previous exercise we used an **Implicit Intent** to launch Email application.

## Open an Email App

On the lecture we used **explicit intent** to open a specific activity which we created, and we have an access to.

What happens when we want to start an activity which doesn't belong to our app?

And if we want to open any activity which does a certain type of action, i.e, all activities that can send an email, or take a photo, or call a number, or navigate.

We can use **implicit intent**. We tell what we want to happen, and Android will suggest the apps that can provide that functionality.

(last week exercise nostalgia)

This time, we'll use an **Implicit Intent** to launch a browser.



# Resources

## **Implicit Intent docs:**

<https://developer.android.com/guide/components/intents-common.html>

## **RelativeLayout docs:**

<https://developer.android.com/reference/android/widget/RelativeLayout.html>

## **LinearLayout docs:**

<https://developer.android.com/reference/android/widget/LinearLayout.html>

## **Tools docs:**

[https://developer.android.com/studio/write/tool-attributes#toolssample\\_resources](https://developer.android.com/studio/write/tool-attributes#toolssample_resources)



# Done? Awesome.

## Bonus task:

1. Add more details to the screen.  
Images, fun facts etc..
2. Running out of screen real estate? **Great!**  
Time to learn about and implement a [ScrollView](#).
3. Make sure your layout fits on smaller devices.

