



Мови програмування мобільних пристроїв

Модуль 1: Основи програмування

Android

Лекція 4. Елементи UI

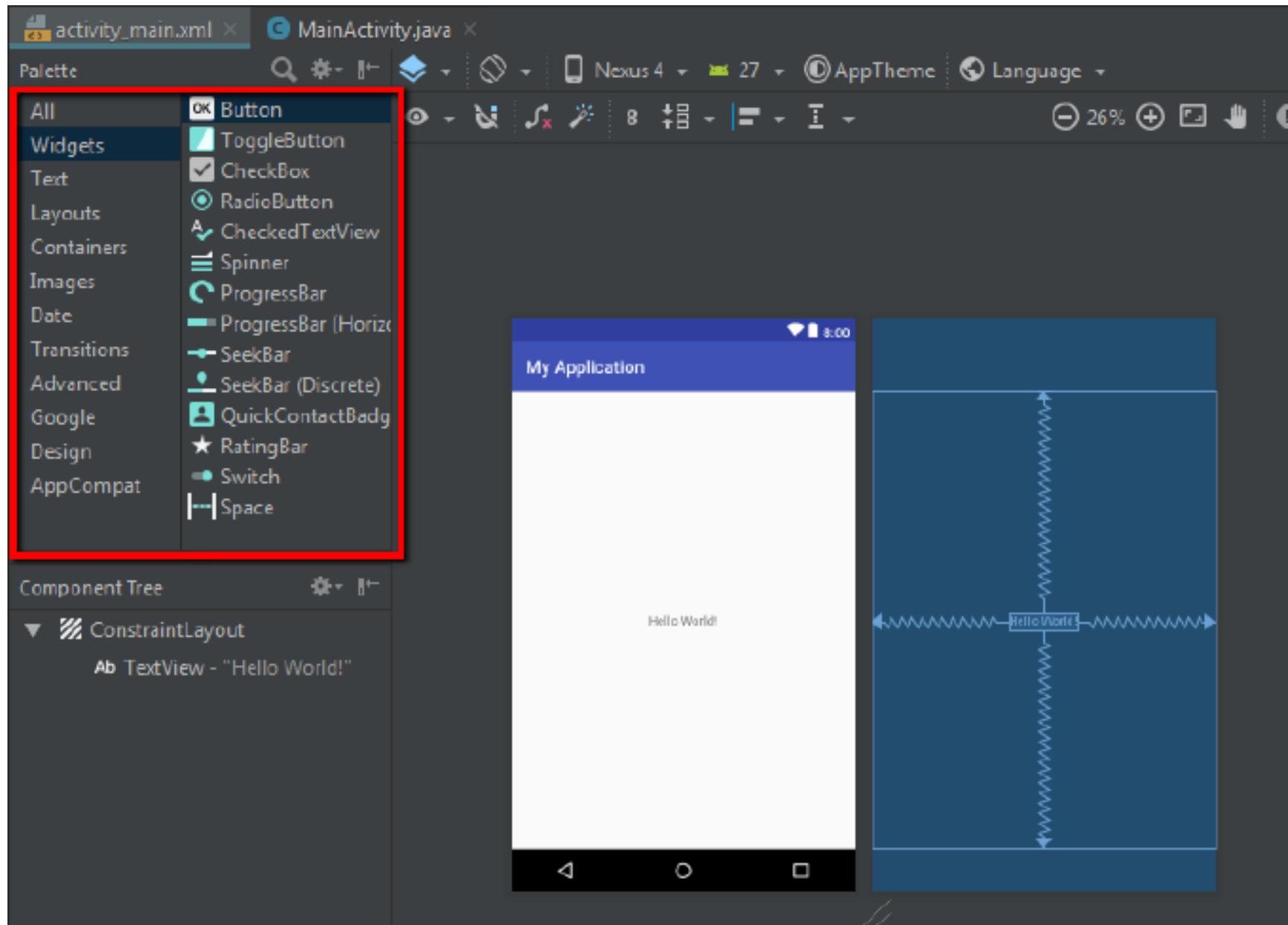
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План

1. Типы layout.
2. ConstraintLayout

Віджети



```
<LinearLayout ... >

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:padding="24dp"
        android:text="@string/question_text" />

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <Button
            android:id="@+id/true_button"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/true_button" />

        <Button
            android:id="@+id/false_button"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/false_button" />

    </LinearLayout>

</LinearLayout>
```

```
public class QuizActivity extends AppCompatActivity {

    private Button mTrueButton;
    private Button mFalseButton;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_quiz);

        mTrueButton = (Button) findViewById(R.id.true_button);
        mFalseButton = (Button) findViewById(R.id.false_button);
    }

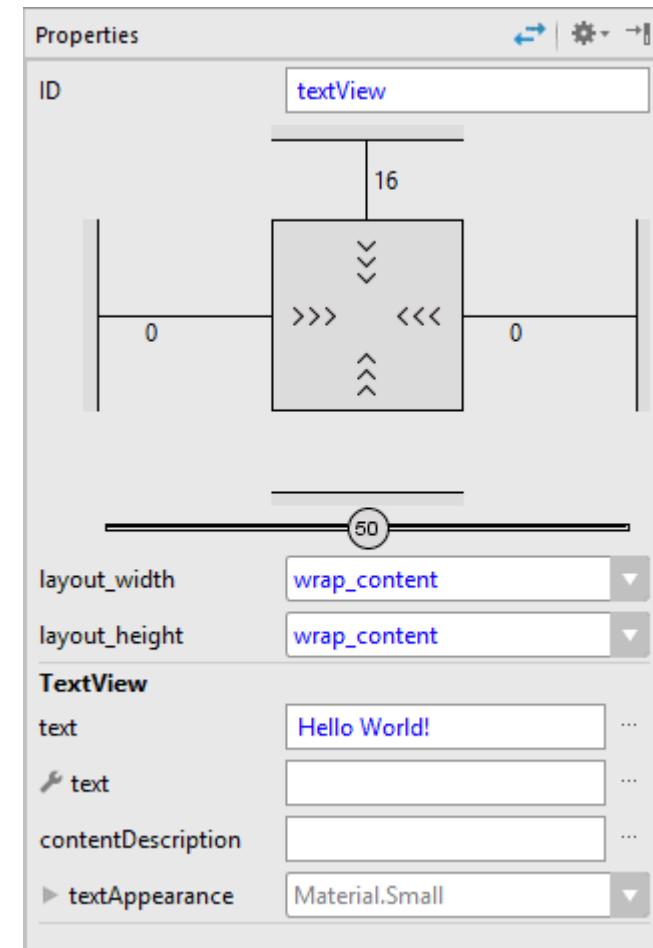
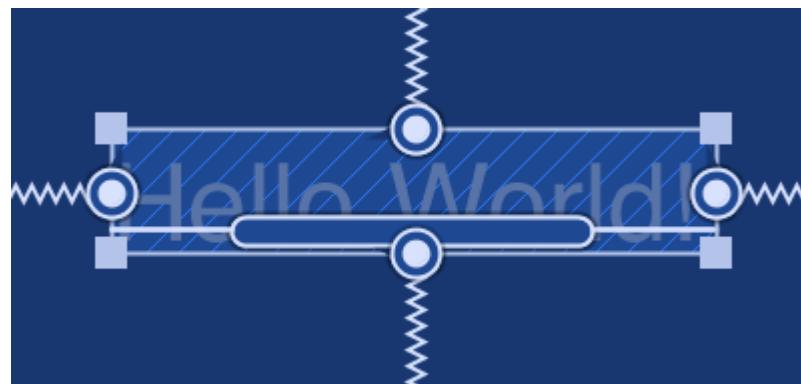
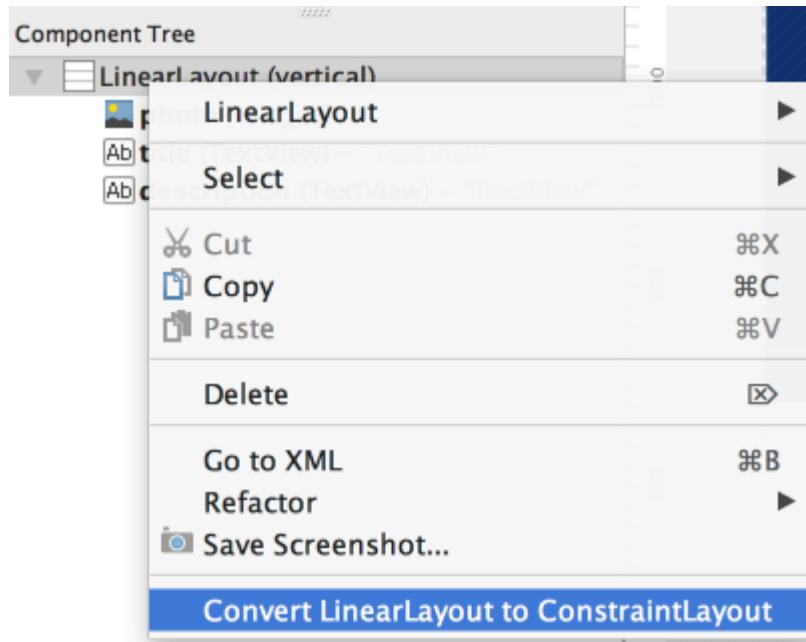
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_quiz);

        mTrueButton = (Button) findViewById(R.id.true_button);
        mTrueButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                // Пока ничего не делает, но скоро будет!
            }
        });

        mFalseButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Toast.makeText(QuizActivity.this,
                    R.string.incorrect_toast,
                    Toast.LENGTH_SHORT).show();
            }
        });
    }
}
```

ConstrainLayout

<https://developer.android.com/reference/android/support/constraint/ConstraintLayout.html>



Android Адаптер

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

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

```
ArrayAdapter<String> adapter = new  
ArrayAdapter<String>(this,  
    android.R.layout.simple_list_item_1, myStringArray);
```

```
ListView listView = (ListView) findViewById(R.id.listview);  
listView.setAdapter(adapter);
```