Add controls dynamically

Dhanya N.M.

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Dynamic Button   app   src   main   res   layout   activity_main.xml

Android

app
  manifests
  java
    com.example.dynabutton
      MainActivity
    com.example.dynabutton (androidTest)
    com.example.dynabutton (test)
  res
  Gradle Scripts

activity_main.xml   MainActivity.java

Preview

Nexus 4   28   AppTheme
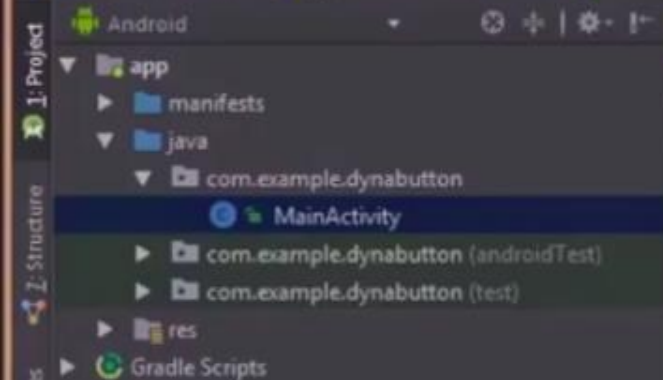
```xml
1   <?xml version="1.0" encoding="utf-8"?>
2   <android.support.constraint.ConstraintLayout xmlns:android="http://sch
3       xmlns:app="http://schemas.android.com/apk/res-auto"
4       xmlns:tools="http://schemas.android.com/tools"
5       android:layout_width="match_parent"
6       android:layout_height="match_parent"
7       tools:context="com.example.dynabutton.MainActivity">
8
9       <TextView
10          android:layout_width="wrap_content"
11          android:layout_height="wrap_content"
12          android:text="Hello World!"
13          app:layout_constraintBottom_toBottomOf="parent"
14          app:layout_constraintLeft_toLeftOf="parent"
15          app:layout_constraintRight_toRightOf="parent"
16          app:layout_constraintTop_toTopOf="parent" />
17
18  </android.support.constraint.ConstraintLayout>
19
```
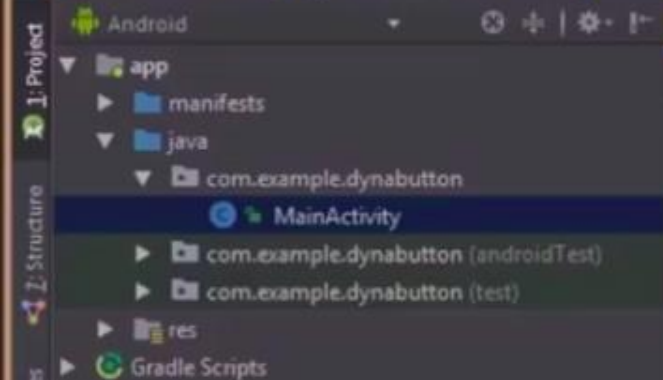
DynaButton

Hello World!

Design Text

Terminal   Logcat   Android Profiler   Messages   Run   TODO   Event Log   Gradle Console

Instant Run performed a full build and install since the installation on the device does not match the local build on disk. // (Don't show again) (a minute ago)   19:1 CRLF: UTF-8 Context: <no context>

21:49
18-03-2018

Dynamic Button - [E:\Android Projects\Dynamic Button] - [app] - ...\app\src\main\res\layout\activity_main.xml - Android Studio 3.0.1
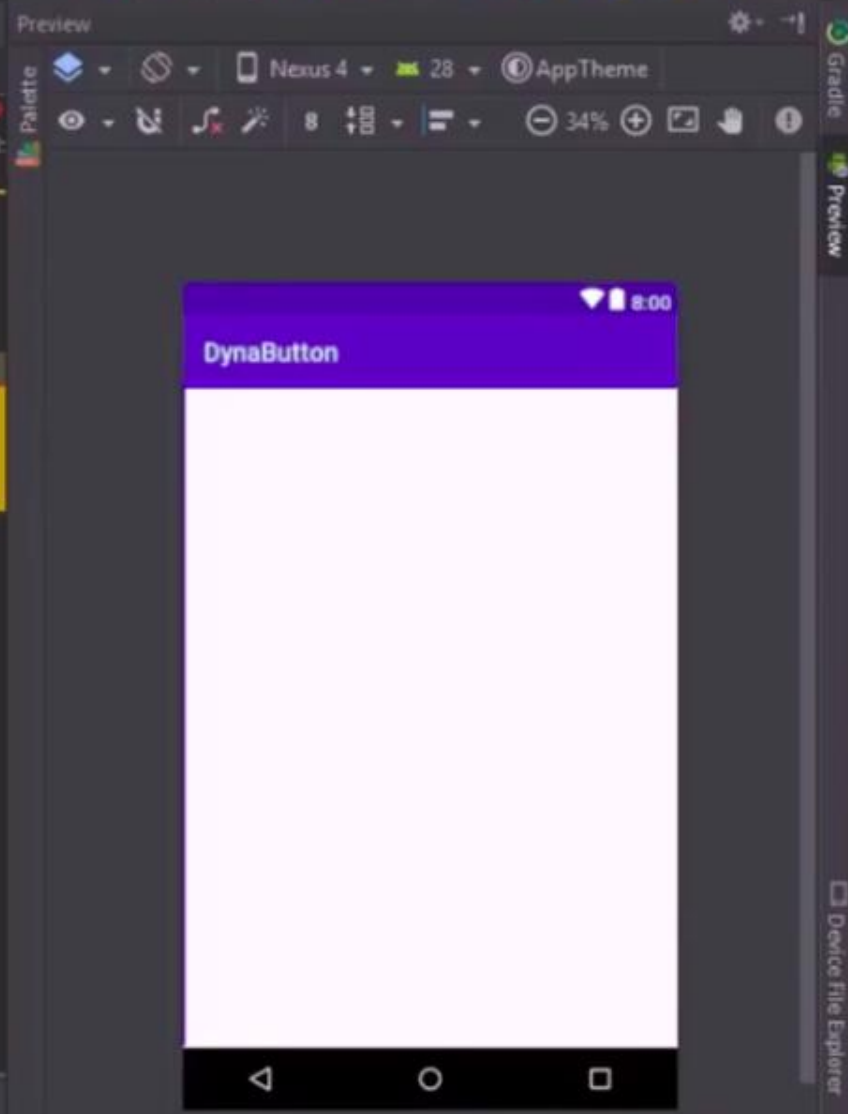
File   Edit   View   Navigate   Code   Analyze   Refactor   Build   Run   Tools   VCS   Window   Help

Dynamic Button   app   src   main   res   layout   activity_main.xml

Android

app
  manifests
  java
    com.example.dynabutton
      MainActivity
    com.example.dynabutton (androidTest)
    com.example.dynabutton (test)
  res
  Gradle Scripts

activity_main.xml   MainActivity.java

android.support.constraint.ConstraintLayout   LinearLayout

```xml
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout xmlns:android="http://sch
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.example.dynabutton.MainActivity">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/rootlayout"
        ></LinearLayout>

</android.support.constraint.ConstraintLayout>
```
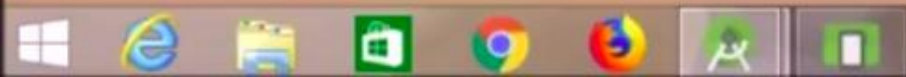
Design   Text

Preview

Nexus 4   28   AppTheme

DynaButton

Terminal   6: Logcat   Android Profiler   0: Messages   Run   TODO   Event Log   Gradle Console

XML tag has empty body

13:8   CRLF: UTF-8   Context: <no context>

21:49
18-08-2018

Dynamic Button - [E:\Android Projects\Dynamic Button] - [app] - ...\app\src\main\res\layout\activity_main.xml - Android Studio 3.0.1
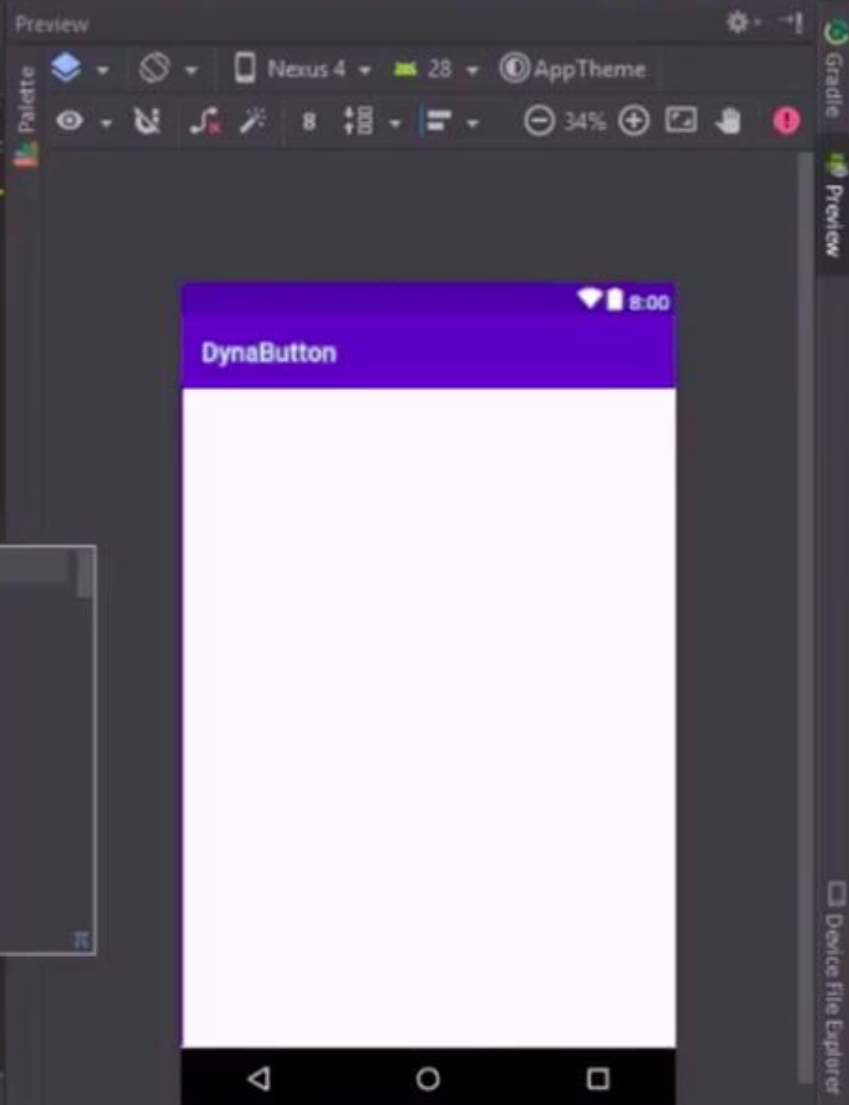
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Dynamic Button app src main res layout activity_main.xml

Android

app
  manifests
  java
    com.example.dynabutton
      MainActivity
    com.example.dynabutton (androidTest)
    com.example.dynabutton (test)
  res
  Gradle Scripts

activity_main.xml   MainActivity.java

android.support.constraint.ConstraintLayout   LinearLayout

```xml
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout xmlns:android="http://sch
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.example.dynabutton.MainActivity">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/rootlayout"
        android:orientation="vertical">

    </
</and
```

LinearLayout
Button
TextView
ListView
EditText
ImageView
RelativeLayout
WebView
AdapterViewFlipper
AutoCompleteTextView
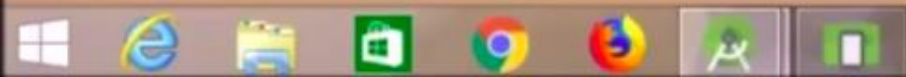
Press Ctrl+Space to view tags from other namespaces

Design   Text

Terminal   Logcat   Android Profiler   Messages   Run   TODO

Instant Run performed a full build and install since the installation on the device does not match the local build on disk. // (Don't show again) (a minute ago)

14:9   CRLF: UTF-8   Context: <no context>

Preview

Nexus 4   28   AppTheme

DynaButton

8:00

Event Log   Gradle Console

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Dynamic Button > app > src > main > java > com > example > dynabutton > MainActivity

activity_main.xml   MainActivity.java

MainActivity > onCreate()

```java
package com.example.dynabutton;

import ...

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button btn = (Button)findViewById(R.id.html);
    }
}
```
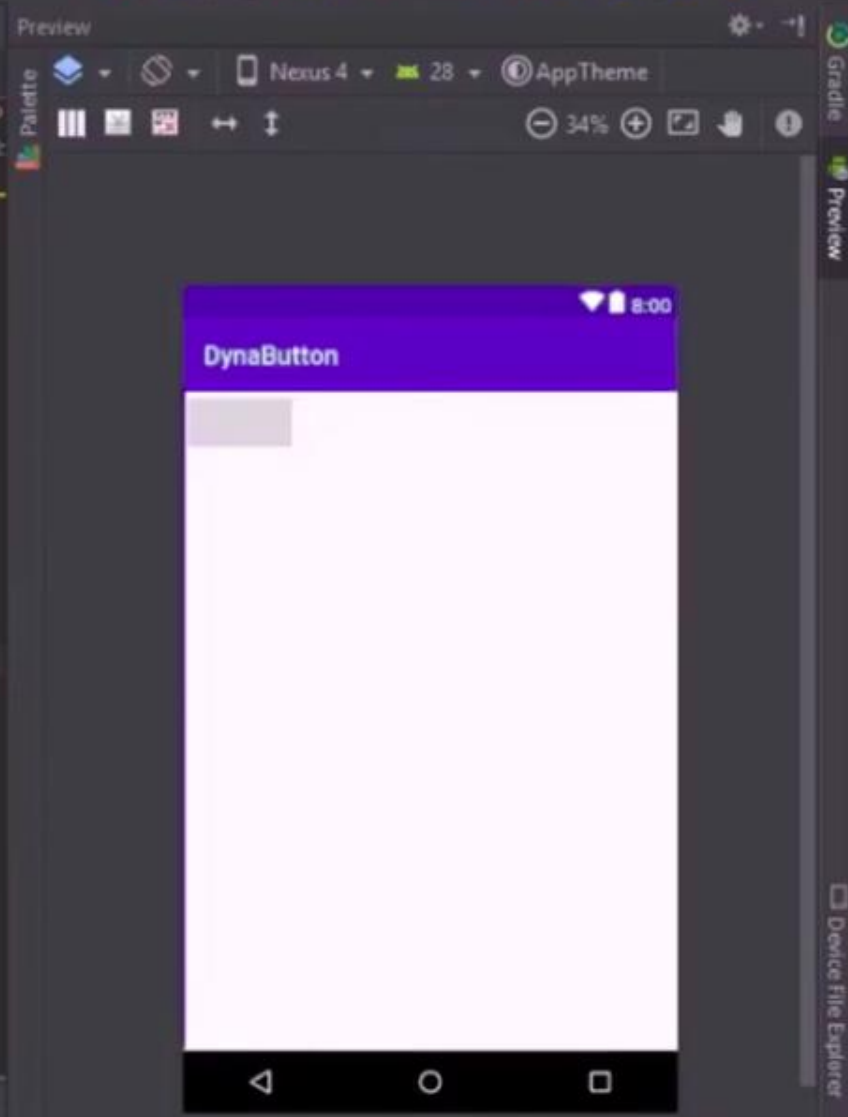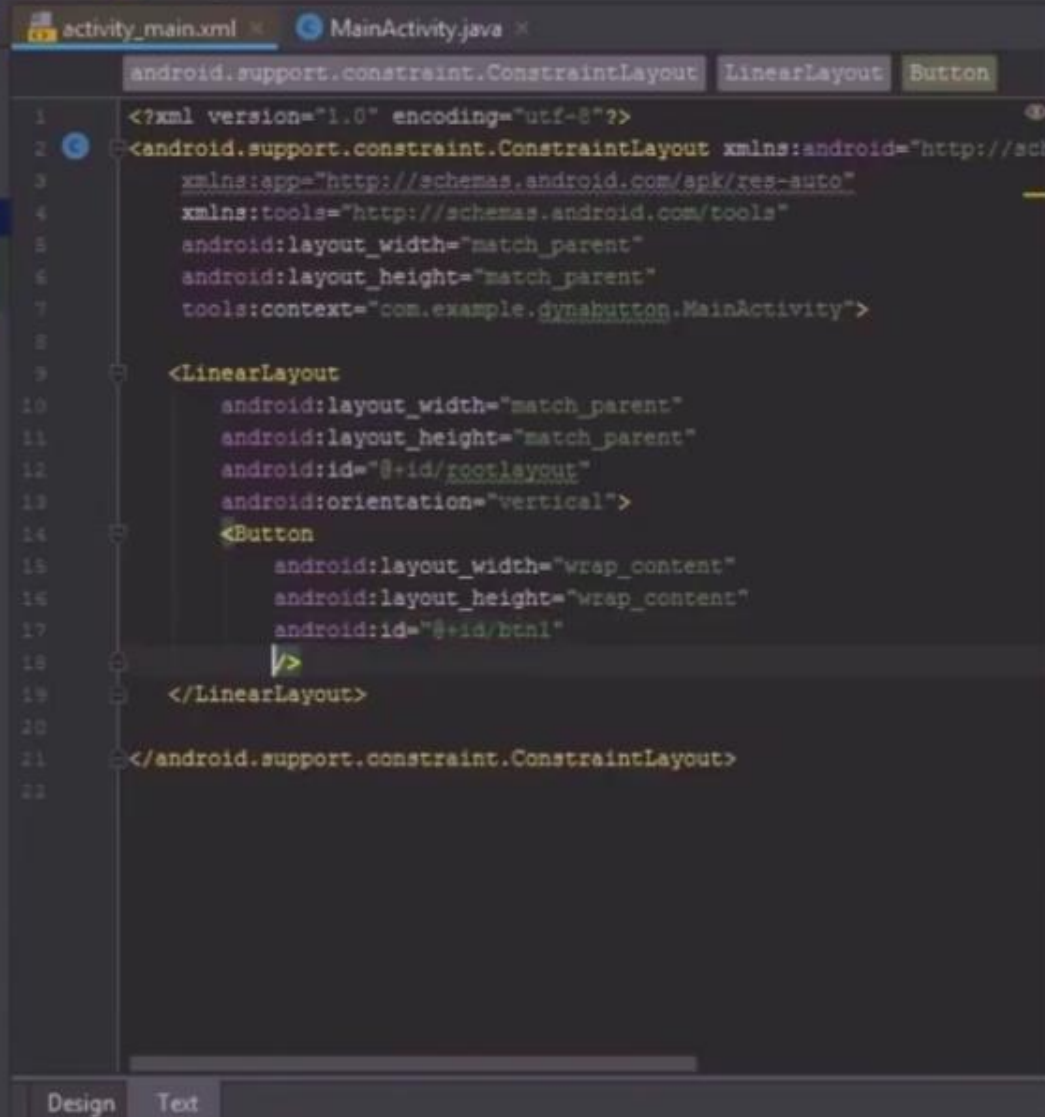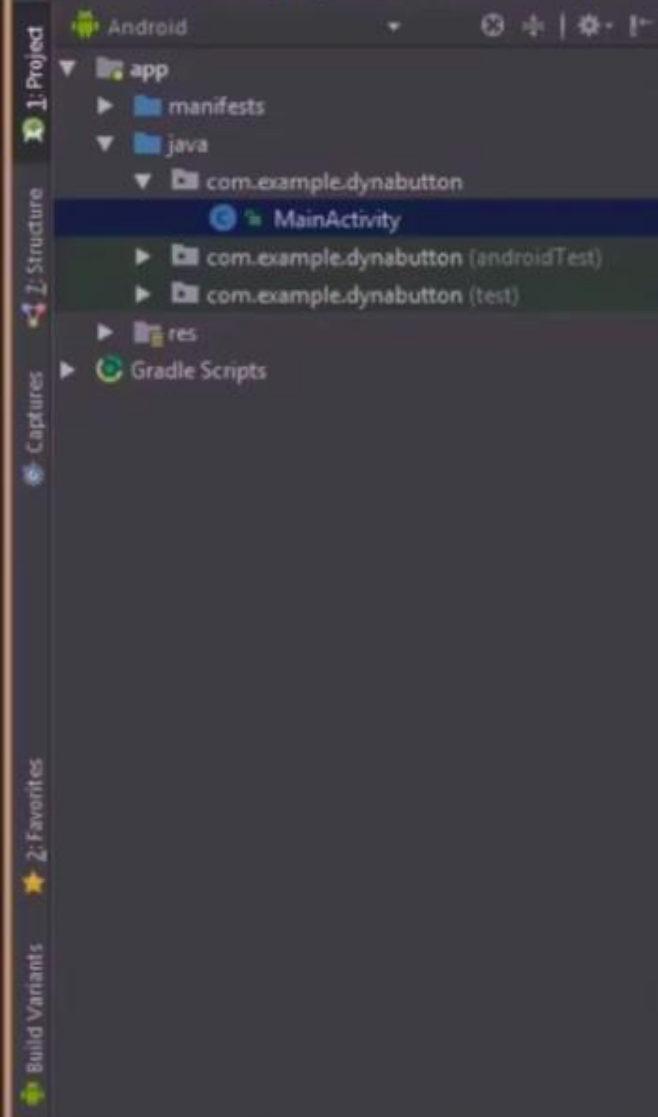
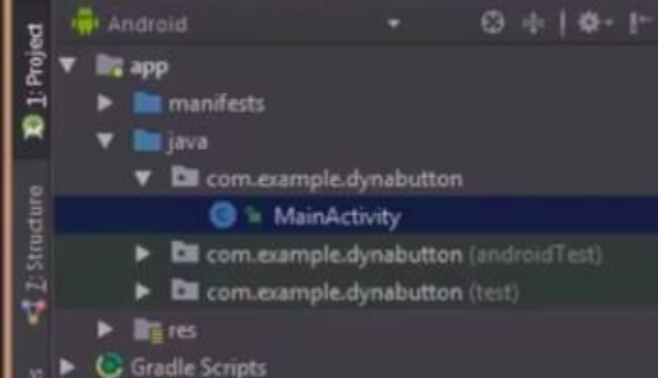Terminal   Logcat   Android Profiler   Messages   Run   TODO

Instant Run performed a full build and install since the installation on the device does not match the local build on disk. // (Don't show again) (2 minutes ago)

13:54   CRLF: UTF-8:   Context: <no context>

File   Edit   View   Navigate   Code   Analyze   Refactor   Build   Run   Tools   VCS   Window   Help

Dynamic Button ▸ app ▸ src ▸ main ▸ java ▸ com ▸ example ▸ dynabutton ▸ MainActivity

activity_main.xml   MainActivity.java

MainActivity   onCreate()   new OnClickListener   onClick()

```java
package com.example.dynabutton;

import ...

public class MainActivity extends AppCompatActivity {


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button btn = (Button)findViewById(R.id.btn1);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {


            }
        });
    }
}
```

Android

▼ app
  ▶ manifests
  ▼ java
    ▼ com.example.dynabutton
        MainActivity
    ▶ com.example.dynabutton (androidTest)
    ▶ com.example.dynabutton (test)
  ▶ res
▶ Gradle Scripts

Terminal   Logcat   Android Profiler   Messages   Run   TODO

Instant Run performed a full build and install since the installation on the device does not match the local build on disk. // (Don't show again) (2 minutes ago)
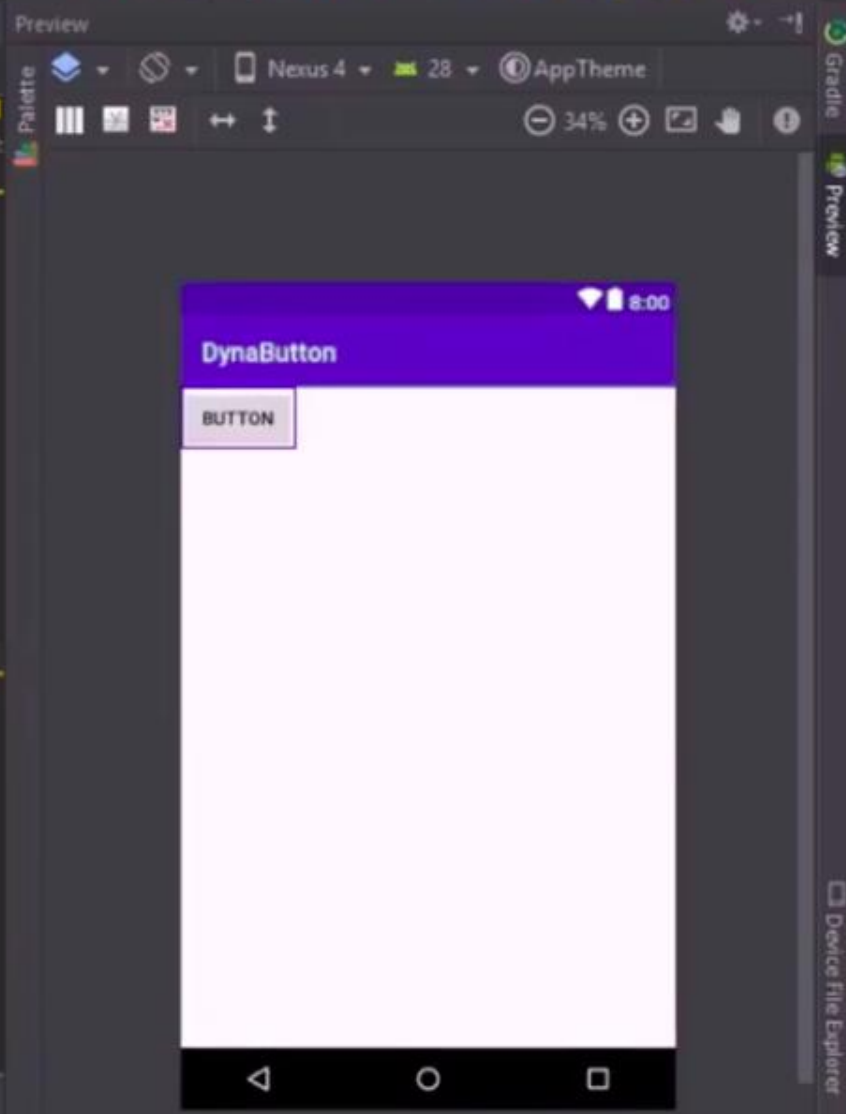
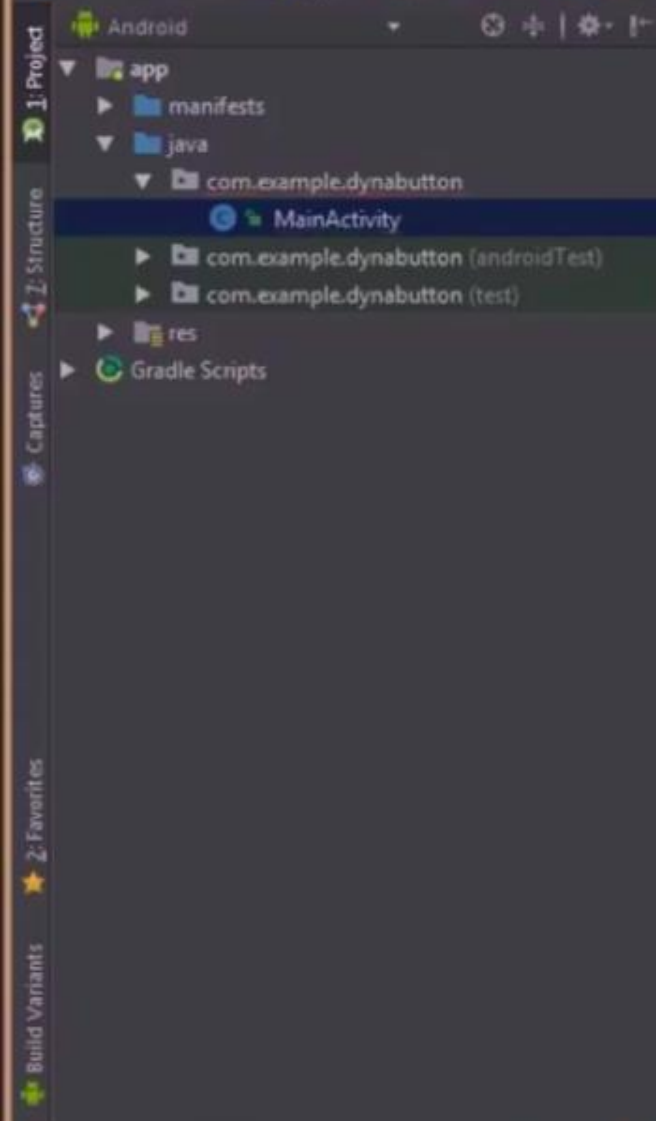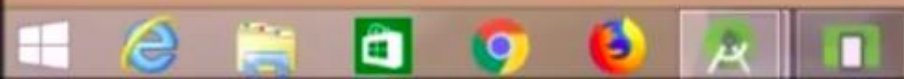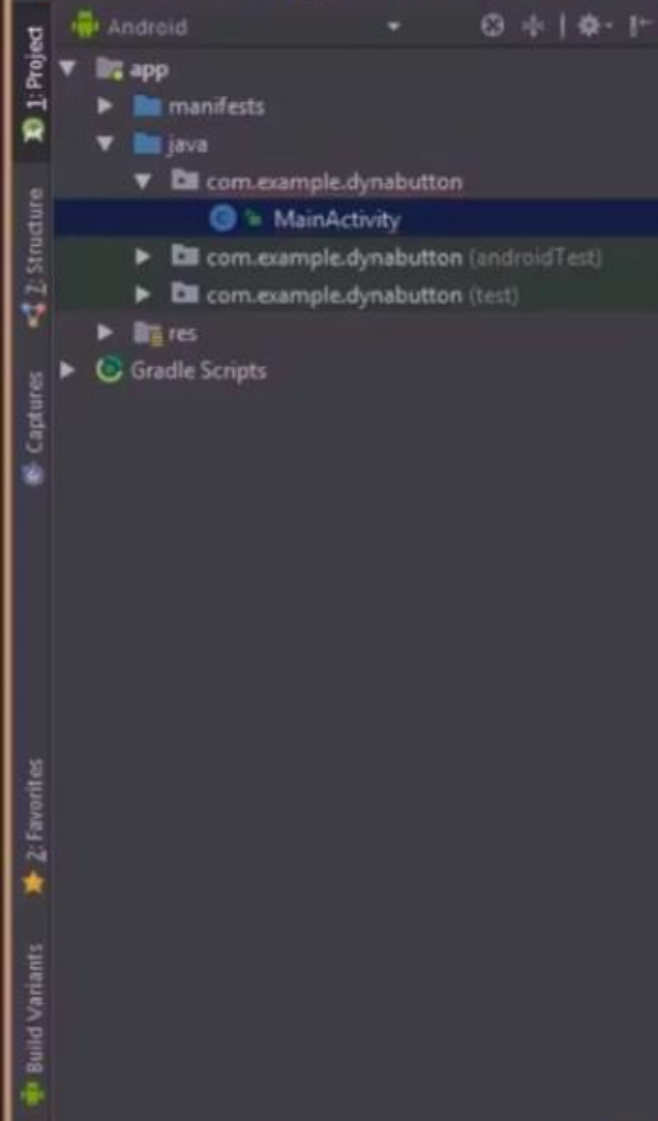Event Log   Gradle Console

18:17   CRLF   UTF-8   Context: <no context>

File   Edit   View   Navigate   Code   Analyze   Refactor   Build   Run   Tools   VCS   Window   Help

Dynamic Button   app   src   main   java   com   example   dynabutton   MainActivity

activity_main.xml   MainActivity.java

MainActivity

```java
1    package com.example.dynabutton;
2
3    import ...
7
8    public class MainActivity extends AppCompatActivity {
9
10       @Override
11       protected void onCreate(Bundle savedInstanceState) {
12           super.onCreate(savedInstanceState);
13           setContentView(R.layout.activity_main);
14           Button btn = (Button) findViewById(R.id.btn1);
15           btn.setOnClickListener(new View.OnClickListener() {
16               @Override
17               public void onClick(View v) {
18                   addButton();
19               }
20           });
21       }
22   }
23
```
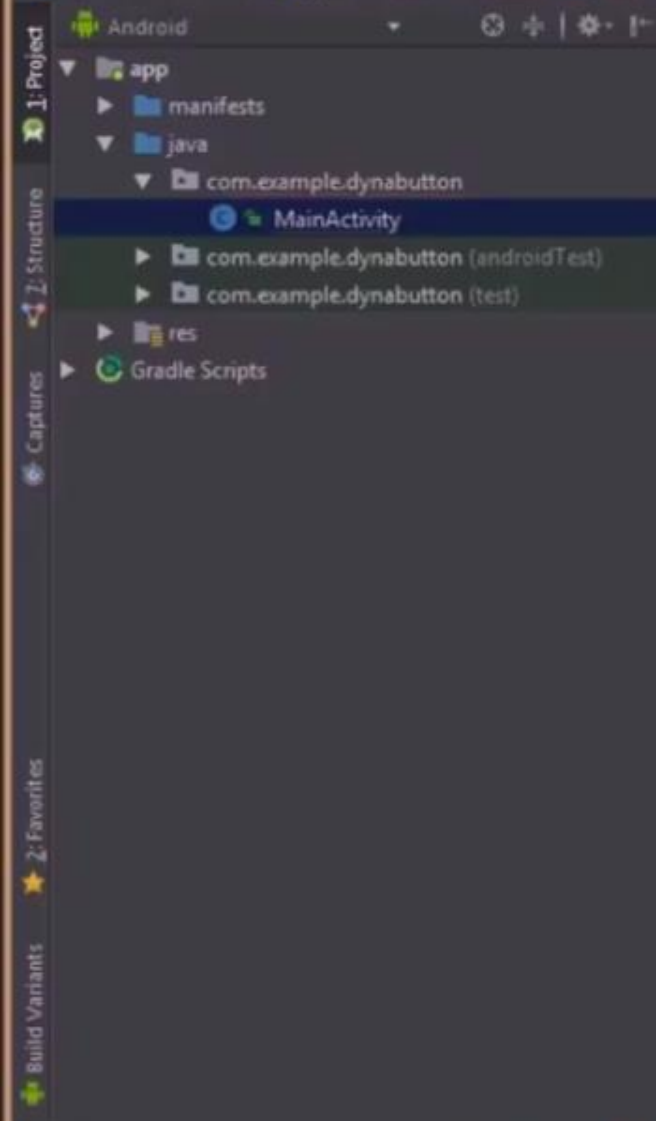
Terminal   6: Logcat   Android Profiler   0: Messages   4: Run   TODO   Event Log   Gradle Console

Instant Run performed a full build and install since the installation on the device does not match the local build on disk. // (Don't show again) (2 minutes ago)   21:6   CRLF: UTF-8:   Context: <no context>

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Dynamic Button app src main java com example dynabutton MainActivity

Android

▼ app
  ▶ manifests
  ▼ java
    ▼ com.example.dynabutton
      MainActivity
    ▶ com.example.dynabutton (androidTest)
    ▶ com.example.dynabutton (test)
  ▶ res
▶ Gradle Scripts

activity_main.xml   MainActivity.java

MainActivity addbutton()
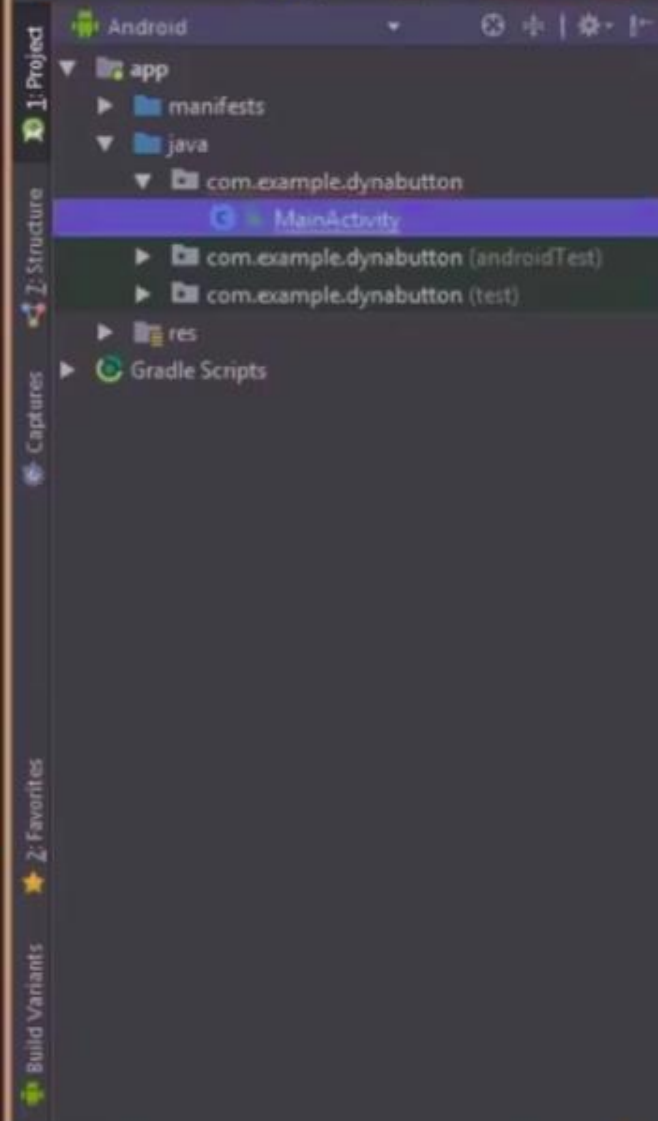
```java
package com.example.dynabutton;

import ...

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button btn = (Button)findViewById(R.id.btn1);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                addButton();
            }
        });
    }

    public void addButton(){

    }
}
```

Terminal   Logcat   Android Profiler   Messages   Run   TODO   Event Log   Gradle Console

Instant Run performed a full build and install since the installation on the device does not match the local build on disk. // (Don't show again) (4 minutes ago)   23:1 CRLF: UTF-8: Context: <no context>

21:53
18-08-2018

File   Edit   View   Navigate   Code   Analyze   Refactor   Build   Run   Tools   VCS   Window   Help

Dynamic Button   app   src   main   java   com   example   dynabutton   MainActivity

activity_main.xml   MainActivity.java
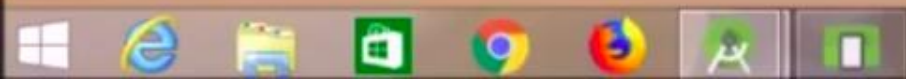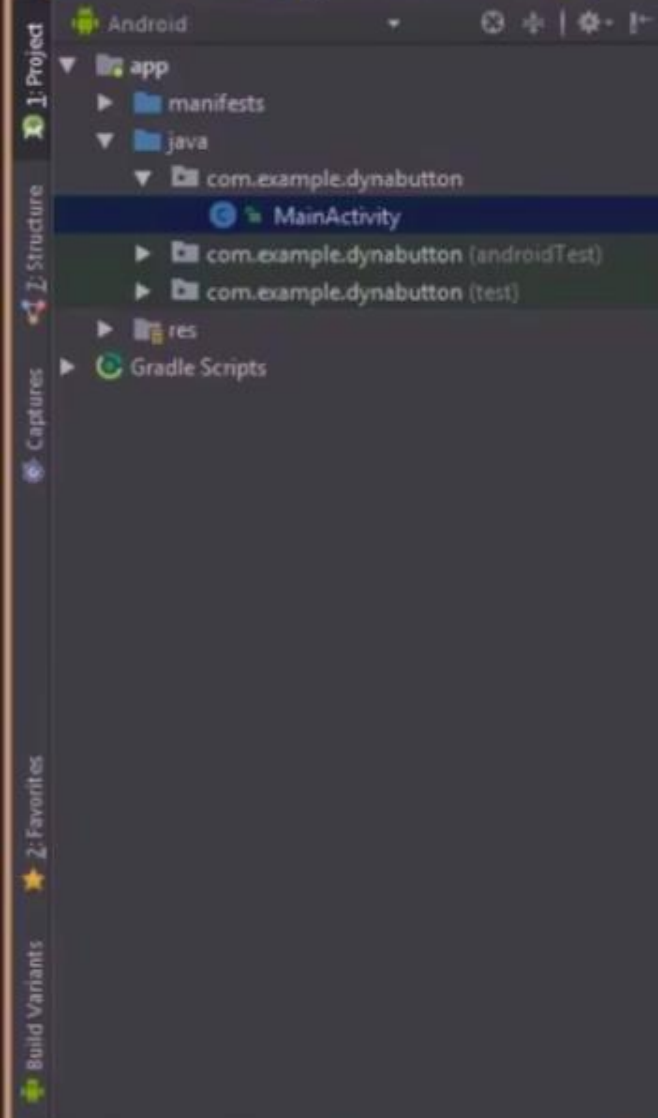
MainActivity   addButton()

```java
1    package com.example.dynabutton;
2
3    import ...
7
8    public class MainActivity extends AppCompatActivity {
9
10       @Override
11       protected void onCreate(Bundle savedInstanceState) {
12           super.onCreate(savedInstanceState);
13           setContentView(R.layout.activity_main);
14           Button btn = (Button)findViewById(R.id.btn1);
15           btn.setOnClickListener(new View.OnClickListener() {
16               @Override
17               public void onClick(View v) {
18                   addButton();
19               }
20           });
21       }
22       public void addButton(){
23
24       }
25    }
26
```
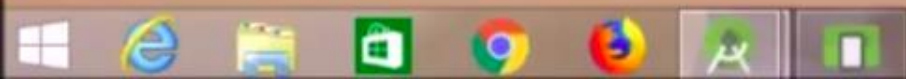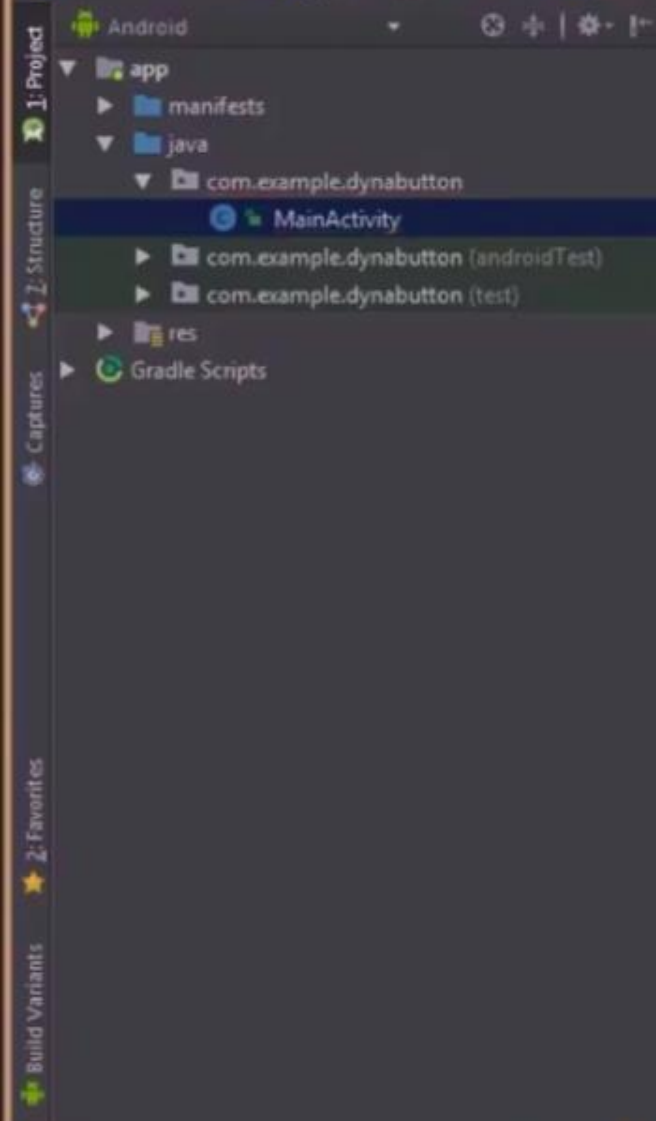
Terminal   6: Logcat   Android Profiler   0: Messages   4: Run   TODO

Instant Run performed a full build and install since the installation on the device does not match the local build on disk. // (Don't show again) (4 minutes ago)   23:9   CRLF: UTF-8:   Context: <no context>

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Dynamic Button app src main java com example dynabutton MainActivity

activity_main.xml ×   MainActivity.java ×
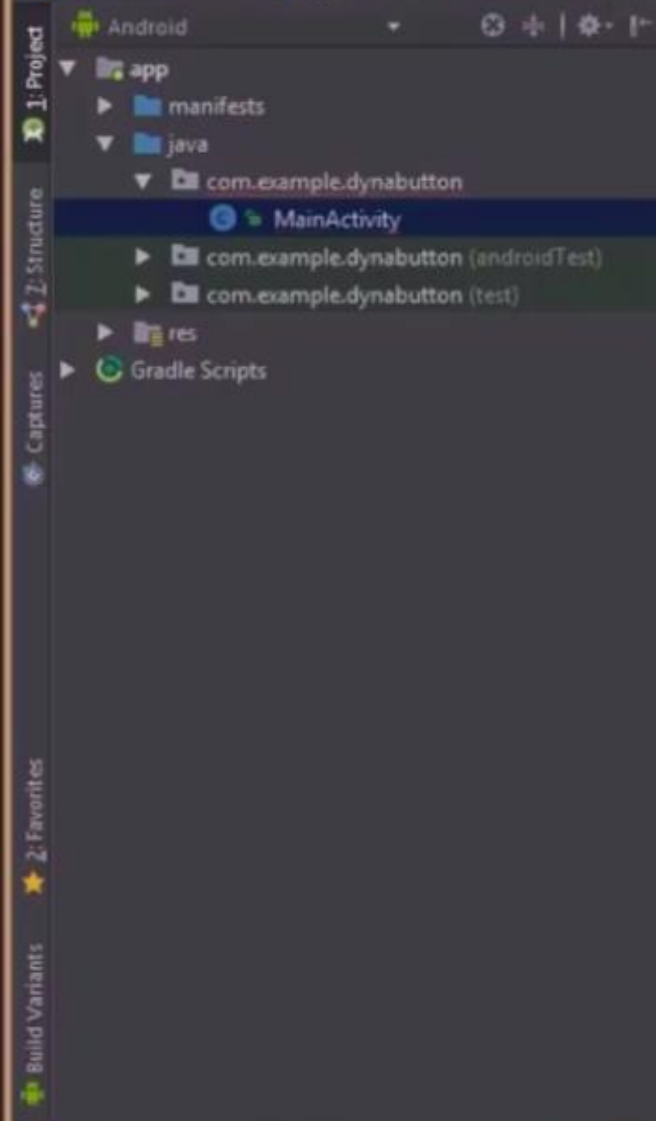
MainActivity   addButton()

```java
1    package com.example.dynabutton;
2
3    import ...
4
9    public class MainActivity extends AppCompatActivity {
10
11        @Override
12        protected void onCreate(Bundle savedInstanceState) {
13            super.onCreate(savedInstanceState);
14            setContentView(R.layout.activity_main);
15            Button btn = (Button)findViewById(R.id.btn1);
16            btn.setOnClickListener(new View.OnClickListener() {
17                @Override
18                public void onClick(View v) {
19                    addButton();
20                }
21            });
22        }
23        public void addButton(){
24            LinearLayout layout = (LinearLayout) findViewById(R.id.rootlayout);
25        }
26    }
27
```

Terminal   6: Logcat   Android Profiler   0: Messages   4: Run   TODO

Instant Run performed a full build and install since the installation on the device does not match the local build on disk. // (Don't show again) (5 minutes ago)   24:76   CRLF :   UTF-8 :   Context <no context>

21:53
18-08-2018

Dynamic Button   app   src   main   java   com   example   dynabutton   MainActivity

activity_main.xml   MainActivity.java

MainActivity

```java
package com.example.dynabutton;

import ...

public class MainActivity extends AppCompatActivity {
Button newbtn;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button btn = (Button)findViewById(R.id.btn1);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                addButton();
            }
        });
    }

    public void addButton(){
        LinearLayout layout = (LinearLayout) findViewById(R.id.rootlayout);

    }

}
```

Terminal   6: Logcat   Android Profiler   0: Messages   4: Run   TODO

Instant Run performed a full build and install since the installation on the device does not match the local build on disk. // (Don't show again) (6 minutes ago)   10:15   CRLF: UTF-8:   Context: <no context>

File   Edit   View   Navigate   Code   Analyze   Refactor   Build   Run   Tools   VCS   Window   Help

Dynamic Button   app   src   main   java   com   example   dynabutton   MainActivity

activity_main.xml   MainActivity.java

MainActivity   addButton()
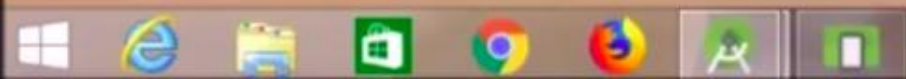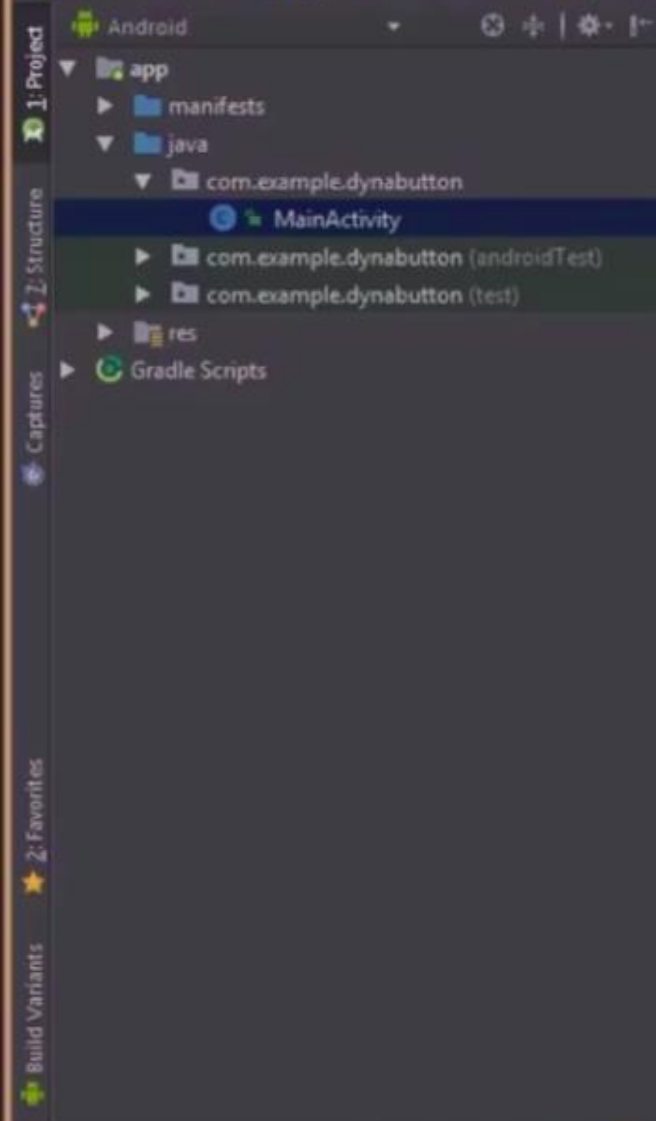
```java
package com.example.dynabutton;

import ...

public class MainActivity extends AppCompatActivity {
Button newbtn;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button btn = (Button)findViewById(R.id.btn1);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                addButton();
            }
        });
    }

    public void addButton(){
        LinearLayout layout = (LinearLayout) findViewById(R.id.rootlayout);
        newbtn = new Button( context: this);
    }
}
```

Terminal   6: Logcat   Android Profiler   0: Messages   4: Run   TODO

Instant Run performed a full build and install since the installation on the device does not match the local build on disk. // (Don't show again) (6 minutes ago)   25:35   CRLF: UTF-8:   Context: <no context>

File   Edit   View   Navigate   Code   Analyze   Refactor   Build   Run   Tools   VCS   Window   Help

Dynamic Button   app   src   main   java   com   example   dynabutton   MainActivity
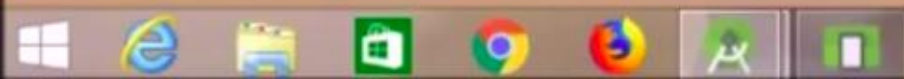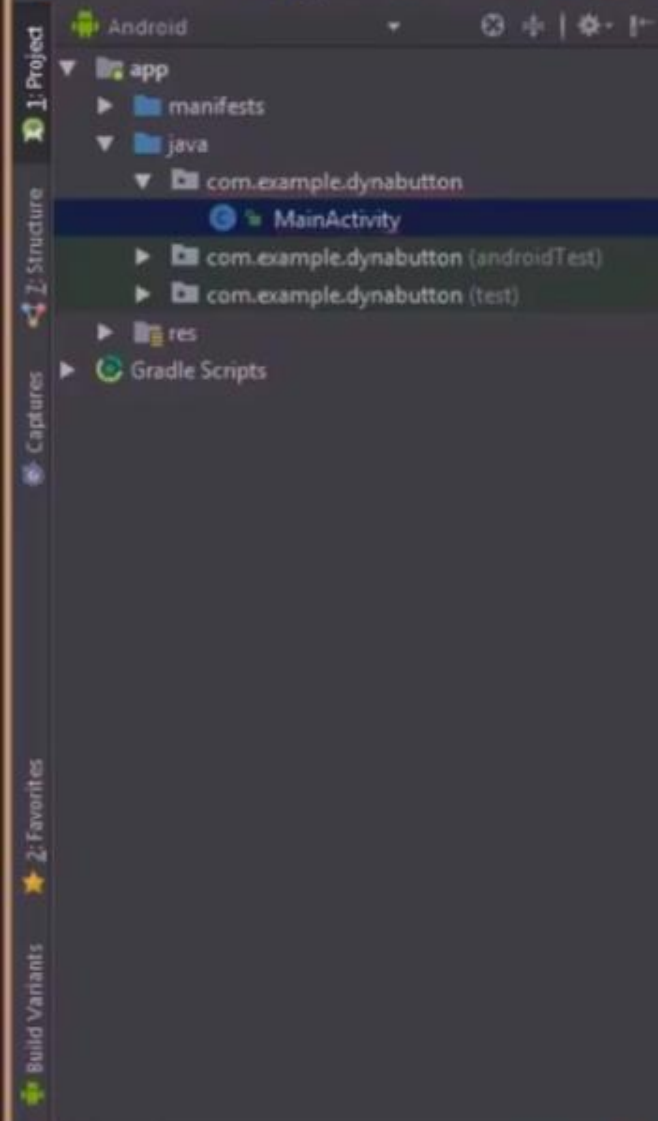
activity_main.xml   MainActivity.java

MainActivity   addButton()

```java
1    package com.example.dynabutton;
2
3    import ...
4
9    public class MainActivity extends AppCompatActivity {
10   Button newbtn;
11       @Override
12       protected void onCreate(Bundle savedInstanceState) {
13           super.onCreate(savedInstanceState);
14           setContentView(R.layout.activity_main);
15           Button btn = (Button)findViewById(R.id.btn1);
16           btn.setOnClickListener(new View.OnClickListener() {
17               @Override
18               public void onClick(View v) {
19                   addButton();
20               }
21           });
22       }
23       public void addButton(){
24           LinearLayout layout = (LinearLayout) findViewById(R.id.rootlayout);
25           newbtn = new Button( context: this);
26           newbtn.setText("new button");
27       }
28   }
29
```
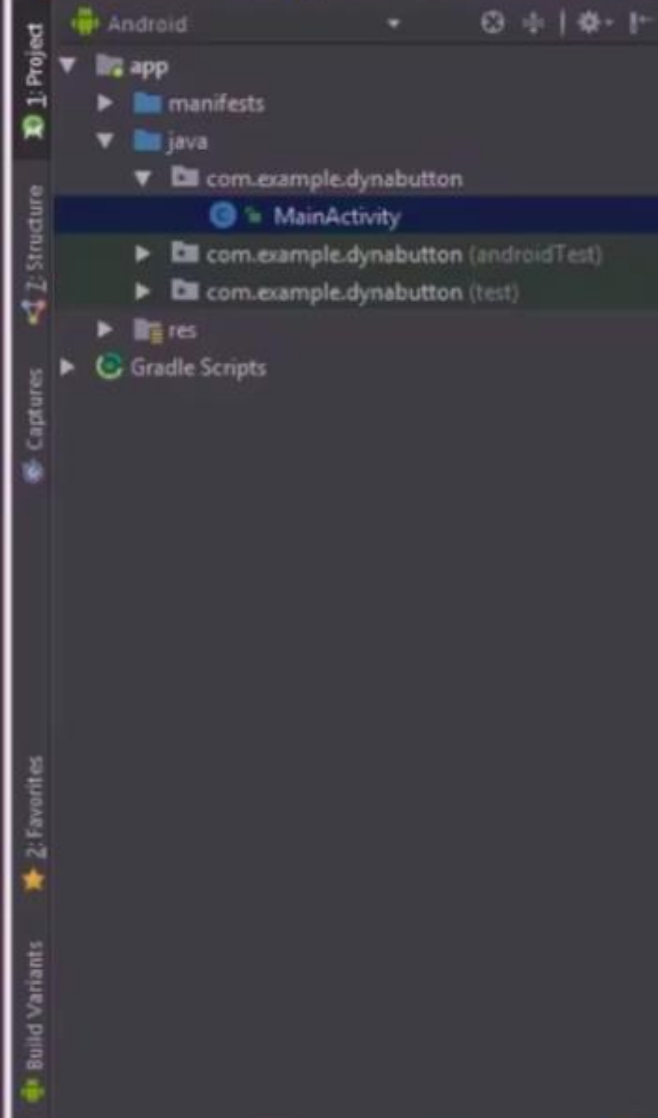
Terminal   6: Logcat   Android Profiler   0: Messages   4: Run   TODO

Event Log   Gradle Console

Instant Run performed a full build and install since the installation on the device does not match the local build on disk. // (Don't show again) (6 minutes ago)   26:37   CRLF   UTF-8   Context: <no context>

File   Edit   View   Navigate   Code   Analyze   Refactor   Build   Run   Tools   VCS   Window   Help

Dynamic Button ▸ app ▸ src ▸ main ▸ java ▸ com ▸ example ▸ dynabutton ▸ MainActivity

Android ▾

▼ app
  ▸ manifests
  ▼ java
    ▼ com.example.dynabutton
        MainActivity
    ▸ com.example.dynabutton (androidTest)
    ▸ com.example.dynabutton (test)
  ▸ res
▸ Gradle Scripts

activity_main.xml ×   MainActivity.java ×

MainActivity   addButton()

```java
package com.example.dynabutton;

import ...

public class MainActivity extends AppCompatActivity {
Button newbtn;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button btn = (Button)findViewById(R.id.btn1);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                addButton();
            }
        });
    }

    public void addButton(){
        LinearLayout layout = (LinearLayout) findViewById(R.id.rootlayout);
        newbtn = new Button( context: this);
        newbtn.setText("new Button");
        layout.addView(newbtn);
    }
}
```

Terminal   ▤ 6: Logcat   Android Profiler   0: Messages   ▶ 4: Run   TODO   Event Log   Gradle Console

Gradle build finished in 6s 393ms (a minute ago)   27:32   CRLF: UTF-8: Context <no context>

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Dynamic Button app src main java com example dynabutton MainActivity

activity_main.xml × MainActivity.java ×
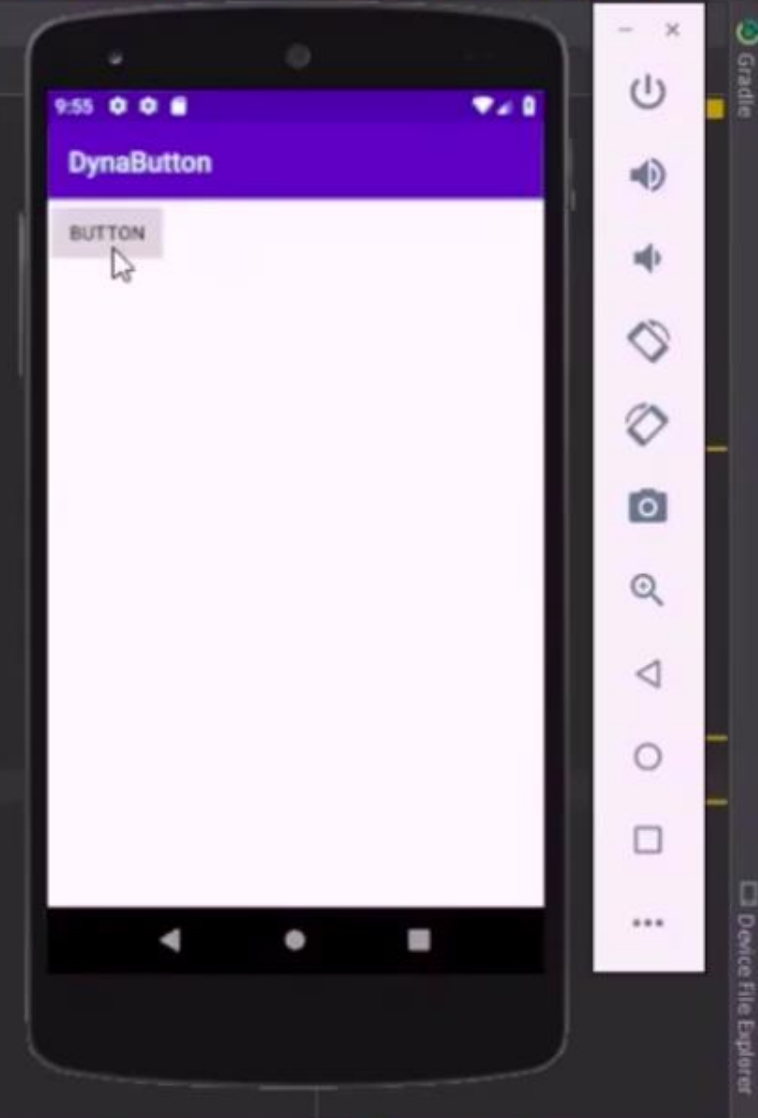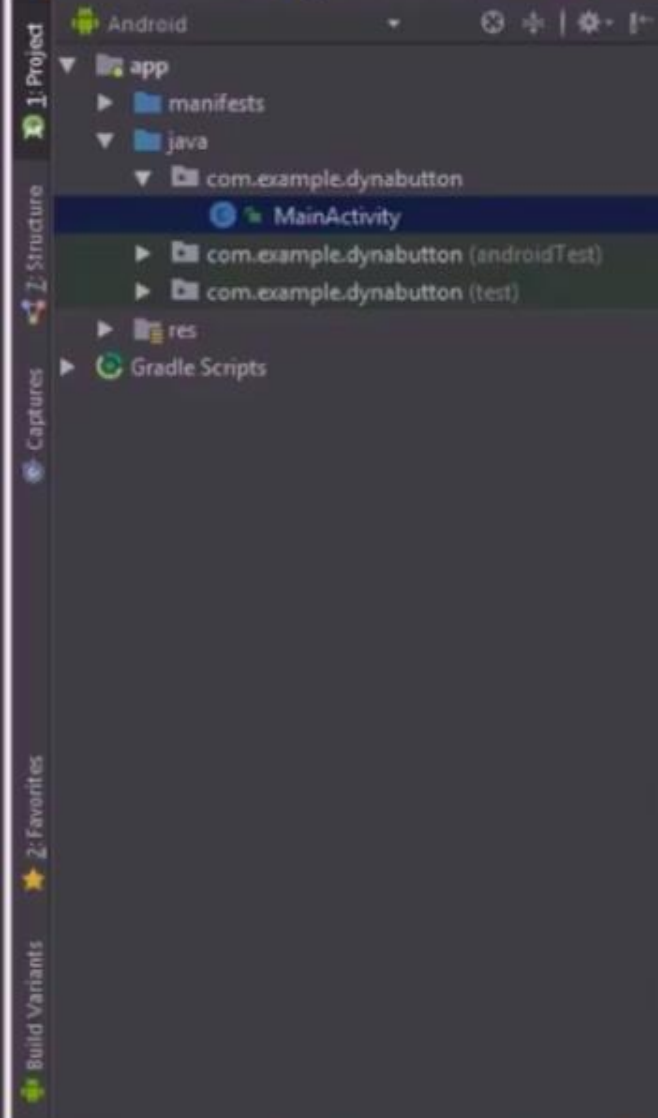
MainActivity addButton()
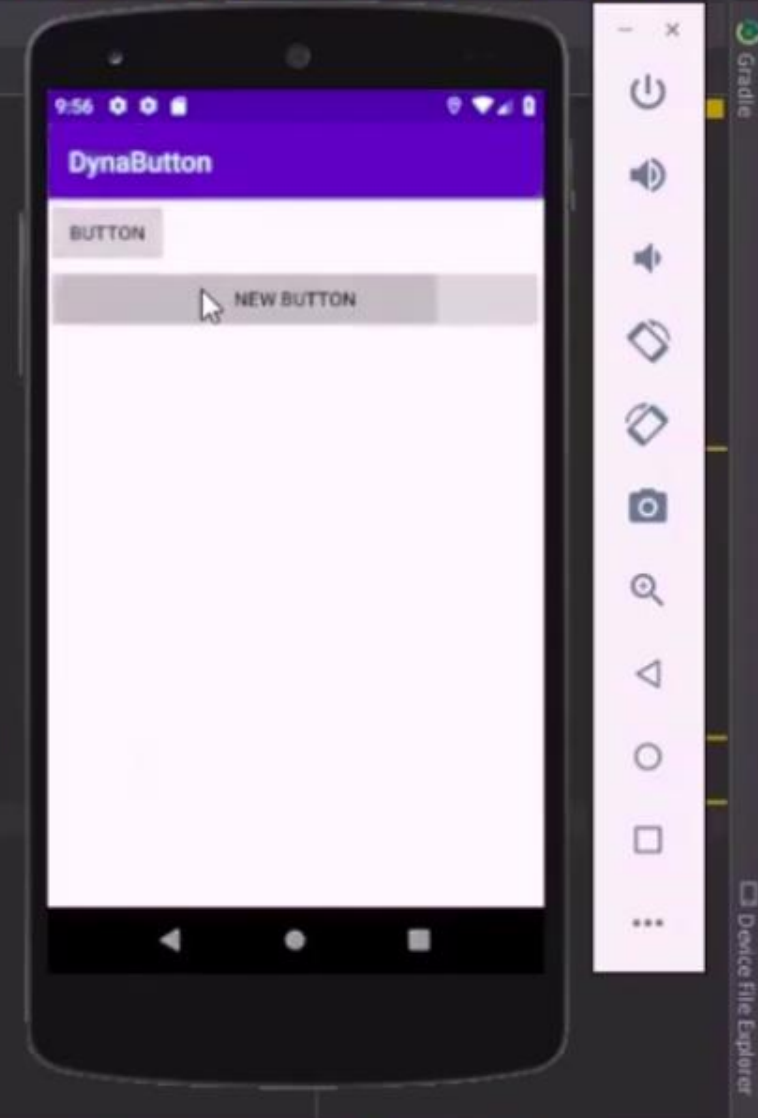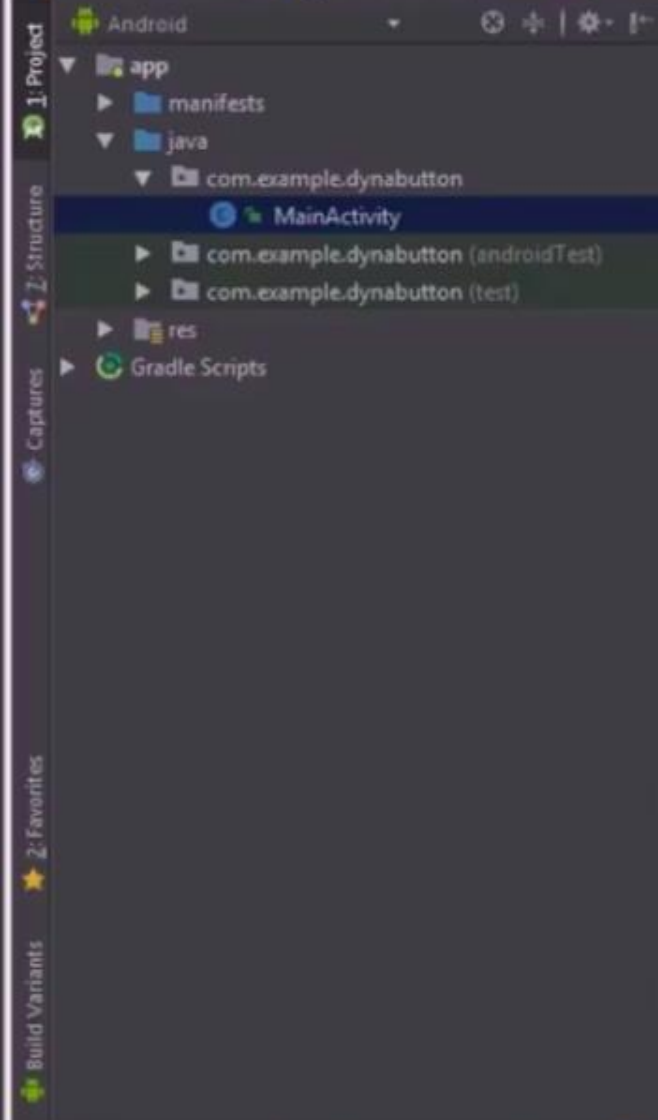
```java
1      package com.example.dynabutton;
2
3      import ...
8
9      public class MainActivity extends AppCompatActivity {
10     Button newbtn;
11         @Override
12     protected void onCreate(Bundle savedInstanceState) {
13         super.onCreate(savedInstanceState);
14         setContentView(R.layout.activity_main);
15         Button btn = (Button)findViewById(R.id.btn1);
16         btn.setOnClickListener(new View.OnClickListener() {
17             @Override
18             public void onClick(View v) {
19                 addButton();
20             }
21         });
22     }
23     public void addButton(){
24         LinearLayout layout = (LinearLayout) findViewById(R.id.rootlayout);
25         newbtn = new Button( context: this);
26         newbtn.setText("new Button");
27         layout.addView(newbtn);
28     }
29 }
30
```

DynaButton

BUTTON

NEW BUTTON

Terminal   6: Logcat   Android Profiler   0: Messages   4: Run   TODO   Event Log   Gradle Console

Gradle build finished in 2s 530ms (moments ago)   27:32   CRLF   UTF-8   Context: <no context>

File   Edit   View   Navigate   Code   Analyze   Refactor   Build   Run   Tools   VCS   Window   Help

Dynamic Button   app   src   main   java   com   example   dynabutton   MainActivity

Android

▼ app
  ▶ manifests
  ▼ java
    ▼ com.example.dynabutton
      MainActivity
    ▶ com.example.dynabutton (androidTest)
    ▶ com.example.dynabutton (test)
  ▶ res
  ▶ Gradle Scripts

activity_main.xml   MainActivity.java

MainActivity   addButton()

```java
1   package com.example.dynabutton;
2
3   import ...
4
5   public class MainActivity extends AppCompatActivity {
    Button newbtn;
        @Override
10      protected void onCreate(Bundle savedInstanceState) {
11          super.onCreate(savedInstanceState);
12          setContentView(R.layout.activity_main);
13          Button btn = (Button)findViewById(R.id.btn1);
14          btn.setOnClickListener(new View.OnClickListener() {
15              @Override
16              public void onClick(View v) {
17                  addButton();
18              }
19          });
20      }
21
22  }
23  public void addButton(){
24      LinearLayout layout = (LinearLayout) findViewById(R.id.rootlayout);
25      newbtn = new Button( context: this);
26      newbtn.setText("new Button");
27      layout.addView(newbtn);
28  }
29  }
30
```

9:56

DynaButton

BUTTON

NEW BUTTON

NEW BUTTON

Terminal   Logcat   Android Profiler   Messages   Run   TODO

Event Log   Gradle Console

Gradle build finished in 2s 530ms (moments ago)   27:32   CRLF   UTF-8   Context: <no context>

UIElementsPractice   app   src   main   java   com   codingpursuits   uielementspractice   C MainActivity   m onCreate

app ▾   HUAWEI LND-L29 ▾

```
1    package com.codingpursuits.uielementspractice;
2
3    import ...
9
10   public class MainActivity extends AppCompatActivity {
11
12       @Override
13       protected void onCreate(Bundle savedInstanceState) {
14           super.onCreate(savedInstanceState);
15           setContentView(R.layout.activity_main);
16           Button myButton = (Button) findViewById(R.id.button2);
17
18           ((ViewGroup)myButton.getParent()).removeView(myButton);
19
20
21       }
22   }
```

Success
Operation succeeded

TODO   Terminal   Database Inspector   Profiler   4: Run   Build   6: Logcat   Event Log   Layout Inspector

Success: Operation succeeded (moments ago)   15:48   CRLF   UTF-8   4 spaces

Type here to search   12:13 AM
                                                                                              12/6/2020