



← ↻ ☆ **TextInputLayout.setEndIconMode crashes when updated from TextWatcher**

+1 ⁷

Hotlists (1)

Mark as Duplicate



Comments (3) Dependencies Duplicates (0) Blocking (0) Resources (5)

Fixed

Bug

P2

+ Add Hotlist



STATUS UPDATE No update yet.

Edit



DESCRIPTION [Deleted User] created issue [#1](#)

Scenario

I have a `TextInputLayout` with a `TextInputEditText`, where the user can type her password. I want to show "password_toggle" end icon when `TextInputEditText` contains some input and hide it when

The problem

When I type in one character and then remove it the app is crashing with the below crash log.

```
textInputEditText.addTextChangedListener(object : TextWatcher {
    override fun beforeTextChanged(s: CharSequence?, start: Int, count: Int, after: Int) {}

    override fun onTextChanged(s: CharSequence?, start: Int, before: Int, count: Int) {}

    override fun afterTextChanged(s: Editable?) {
        val isPasswordToggleVisible = s.isNullOrBlank()
        val endIcon = if (isPasswordToggleVisible) TextInputLayout.END_ICON_CLEAR_TEXT else TextInputLayout.END_ICON_PASSWORD_TOGGLE
        textInputLayout.endIconMode = endIcon
    }
})
```

When i change `END_ICON_NONE` to `END_ICON_CLEAR_TEXT` crash is not present:

```
val endIcon = if (isPasswordToggleVisible) TextInputLayout.END_ICON_NONE else TextInputLayout.END_ICON_PASSWORD_TOGGLE
```

into

```
val endIcon = if (isPasswordToggleVisible) TextInputLayout.END_ICON_CLEAR_TEXT else TextInputLayout.END_ICON_PASSWORD_TOGGLE
```

Full Code

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    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=".MainActivity">

    <com.google.android.material.textfield.TextInputLayout
        android:id="@+id/password_til"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="100dp"
        android:hint="Password"
        app:endIconMode="password_toggle"
        app:layout_constraintTop_toTopOf="parent">

        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/password_et"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:imeOptions="actionDone"
            android:inputType="textPassword"
            android:singleLine="true" />

    </com.google.android.material.textfield.TextInputLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

Main activity:

```
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
```

```

setContentView(R.layout.activity_main)

val textInputLayout = findViewById<TextInputLayout>(R.id.password_til)
val textInputEditText = findViewById<TextInputEditText>(R.id.password_et)

textInputEditText.addTextChangedListener(object : TextWatcher {
    override fun beforeTextChanged(s: CharSequence?, start: Int, count: Int, after: Int) {}

    override fun onTextChanged(s: CharSequence?, start: Int, before: Int, count: Int) {}

    override fun afterTextChanged(s: Editable?) {
        val isPasswordToggleVisible = s.isNullOrBlank()
        val endIcon = if (isPasswordToggleVisible) TextInputLayout.END_ICON_NONE else TextInputLayout.END_ICON_PASSWORD_TOGGLE
        textInputLayout.endIconMode = endIcon
    }
})
}
}
}

```

Error

```

2021-03-03 22:26:33.746 25655-25655/com.example.myapplication E/MessageQueue-JNI: Exception in MessageQueue callback: handleReceiveCallback
2021-03-03 22:26:33.749 25655-25655/com.example.myapplication E/MessageQueue-JNI: java.lang.IndexOutOfBoundsException: Index: 2, Size: 2
    at java.util.ArrayList.get(ArrayList.java:437)
    at android.widget.TextView.sendAfterTextChanged(TextView.java:10551)
    at android.widget.TextView$ChangeWatcher.afterTextChanged(TextView.java:13388)
    at android.text.SpannableStringBuilder.sendAfterTextChanged(SpannableStringBuilder.java:1277)
    at android.text.SpannableStringBuilder.replace(SpannableStringBuilder.java:577)
    at android.text.SpannableStringBuilder.delete(SpannableStringBuilder.java:230)
    at android.text.SpannableStringBuilder.delete(SpannableStringBuilder.java:37)
    at android.text.method.BaseKeyListener.backspaceOrForwardDelete(BaseKeyListener.java:370)
    at android.text.method.BaseKeyListener.backspace(BaseKeyListener.java:71)
    at android.text.method.BaseKeyListener.onKeyDown(BaseKeyListener.java:479)
    at android.text.method.QwertyKeyListener.onKeyDown(QwertyKeyListener.java:362)
    at android.text.method.TextKeyListener.onKeyDown(TextKeyListener.java:141)
    at android.widget.TextView.doKeyDown(TextView.java:8430)
    at android.widget.TextView.onKeyDown(TextView.java:8187)
    at android.view.KeyEvent.dispatch(KeyEvent.java:2801)
    at android.view.View.dispatchKeyEvent(View.java:13352)
    at android.view.ViewGroup.dispatchKeyEvent(ViewGroup.java:1922)
    at android.view.ViewGroup.dispatchKeyEvent(ViewGroup.java:1922)
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    at android.view.ViewGroup.dispatchKeyEvent(ViewGroup.java:1922)
    at android.view.ViewGroup.dispatchKeyEvent(ViewGroup.java:1922)
    at com.android.internal.policy.DecorView.superDispatchKeyEvent(DecorView.java:453)
    at com.android.internal.policy.PhoneWindow.superDispatchKeyEvent(PhoneWindow.java:1839)
    at android.app.Activity.dispatchKeyEvent(Activity.java:3953)
    at androidx.core.app.ComponentActivity.superDispatchKeyEvent(ComponentActivity.java:122)
    at androidx.core.view.KeyEventDispatcher.dispatchKeyEvent(KeyEventDispatcher.java:84)
    at androidx.core.app.ComponentActivity.dispatchKeyEvent(ComponentActivity.java:140)
    at androidx.appcompat.app.AppCompatActivity.dispatchKeyEvent(AppCompatActivity.java:569)
    at androidx.appcompat.view.WindowCallbackWrapper.dispatchKeyEvent(WindowCallbackWrapper.java:59)
    at androidx.appcompat.app.AppCompatActivityDelegateImpl$AppCompatActivityCallback.dispatchKeyEvent(AppCompatActivityDelegateImpl.java:3054)
    at com.android.internal.policy.DecorView.dispatchKeyEvent(DecorView.java:367)
    at android.view.ViewRootImpl$ViewPostImeInputStage.processKeyEvent(ViewRootImpl.java:5413)
    at android.view.ViewRootImpl$ViewPostImeInputStage.onProcess(ViewRootImpl.java:5281)
    at android.view.ViewRootImpl$InputStage.deliver(ViewRootImpl.java:4788)
    at android.view.ViewRootImpl$InputStage.onDeliverToNext(ViewRootImpl.java:4841)
    at android.view.ViewRootImpl$InputStage.forward(ViewRootImpl.java:4807)
    at android.view.ViewRootImpl$AsyncInputStage.forward(ViewRootImpl.java:4947)
    at android.view.ViewRootImpl$InputStage.apply(ViewRootImpl.java:4815)
    at android.view.ViewRootImpl$AsyncInputStage.apply(ViewRootImpl.java:5004)
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    at android.view.ViewRootImpl$AsyncInputStage.forward(ViewRootImpl.java:4980)
    at android.view.ViewRootImpl$ImeInputStage.onFinishedInputEvent(ViewRootImpl.java:5141)
    at android.view.inputmethod.InputMethodManager$PendingEvent.run(InputMethodManager.java:3064)
    at android.
2021-03-03 22:26:33.752 25655-25655/com.example.myapplication E/AndroidRuntime: FATAL EXCEPTION: main
    Process: com.example.myapplication, PID: 25655
    java.lang.IndexOutOfBoundsException: Index: 2, Size: 2

```

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2021-03-03 22:26:33.752 25655-25655/com.example.myapplication E/AndroidRuntime: at android.view.inputmethod.InputMethodManager$PendingEvent.run(InputMeth
at android.view.inputmethod.InputMethodManager.invokeFinishedInputEventCallback(InputMethodManager, java:2607)
at android.view.inputmethod.InputMethodManager.finishedInputEvent(InputMethodManager, java:2598)
at android.view.inputmethod.InputMethodManager$ImeInputEventSender.onInputEventFinished(InputMethodManager, java:3041)
at android.view.InputEventSender.dispatchInputEventFinished(InputEventSender, java:143)
at android.os.MessageQueue.nativePollOnce(Native Method)
at android.os.MessageQueue.next(MessageQueue, java:336)
at android.os.Looper.loop(Looper, java:174)
at android.app.ActivityThread.main(ActivityThread, java:7356)
at java.lang.reflect.Method.invoke(Native Method)
at com.android.internal.os.RuntimeInit$MethodAndArgsCaller.run(RuntimeInit, java:492)
at com.android.internal.os.ZygoteInit.main(ZygoteInit, java:930)
```

✓ Links (5)

🔗 Links (5)

["http://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android)

["http://schemas.android.com/apk/res-auto"](http://schemas.android.com/apk/res-auto)

["http://schemas.android.com/tools"](http://schemas.android.com/tools)

["https://github.com/material-components/material-components-android/co..."](https://github.com/material-components/material-components-android/co...)

["https://github.com/material-components/material-components-android/commit/963ad14b84a4ae65d4..."](https://github.com/material-components/material-components-android/commit/963ad14b84a4ae65d4...)

COMMENTS

All comments



[Deleted User] <[Deleted User]> [#2](#)

Mar

Please note that the bug was fixed with release 1.3.0 of the material components library.

<https://github.com/material-components/material-components-android/compare/1.2.1...1.3.0>

<https://github.com/material-components/material-components-android/commit/963ad14b84a4ae65d480c471ec6139746f02f7a0>



nc...@google.com <nc...@google.com> [#3](#)

Apr

Marked as fixed, reassigned to nc...@google.com.

Thanks for the feedback and update.