

Accessibility in Compose



Morty, let's learn
how to make
accessible apps in
Jetpack Compose.



By Moro



Morty, your school
will wait. Let's
jump!

Imagine you have an
app where you teach
maths. Take a look:

PreviewQuizAnswers



5^5

$\frac{1}{2}$

6



Morty, the
screen reader
will say:

PreviewQuizAnswers

5⁵

Talkback: "Five
five"

1

2

Talkback: "One
slash 2"

6

Talkback: "Six"

```
QuizAnswers(  
    answers = listOf("5^5", "1/2", "6"),  
    attemptCallback = {},  
    attemptIndex = null,  
    isResultRight = null,  
    isAnswerSelectionEnabled = false,  
)
```

This because of
my text values.



Morty, the
screen reader
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PreviewQuizAnswers

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QuizAnswers(  
    answers = listOf("5^5", "1/2", "6"),  
    attemptCallback = {},  
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)
```

This because of
my text values.



Morty, I don't want
the user to have this
experience:

PreviewQuizAnswers



5^5

Talkback: *Five
five*



$\frac{1}{2}$

Talkback: *One
slash 2*



6

Talkback: *Six*

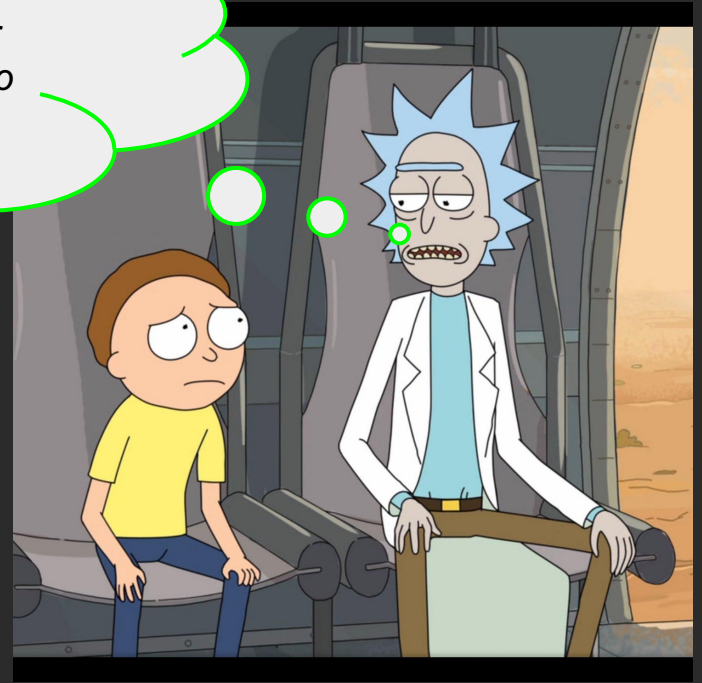


Morty, to solve that
you need to use
semantics:



```
Text(  
    text = text,  
    style = MaterialTheme.typography.caption,  
    modifier = Modifier  
        .align(Alignment.Center)  
        .semantics { contentDescription = description },  
    color = textColor,  
)
```


Morty, I can explain better
to the Screen Reader how to
say what I'm showing.



```
Text(  
  text = text,  
  style = MaterialTheme.typography.caption,  
  modifier = Modifier  
    .align(Alignment.Center)  
    .semantics { contentDescription = description },  
  color = textColor,  
)
```



Morty, now we have:

PreviewQuizAnswers

5^5

Talkback: 5 raised
to the power of 5



$\frac{1}{2}$

Talkback: One-half



6

Talkback: Six



Morty, another great
thing is the
clearAndSetSemantics.
I will show you...



*Morty, in this case, the
screen reader will say
things with no sense to
the user.*

QuizReportPreview



Right answers:

2

Total of questions:

4

```
ConstraintLayout(  
    modifier.clearAndSetSemantics { this: SemanticsPropertyReceiver  
        contentDescription = description  
    }  
) {...}
```

QuizReportPreview

Right answers:

2

Total of questions:

4

*Morty, I can help the Screen
Reader to say:
"Friend, you did 2 right, and
the total of questions is 4.
Continue trying!"*

QuizReportPreview



Right answers:

2

Total of questions:

4



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