

PGR208 Android Programming

Column, Row, arrangement, alignment

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Innhold

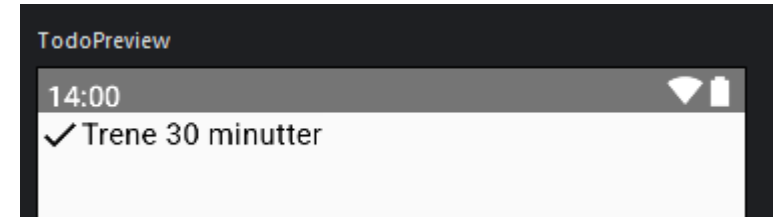
- Row
 - verticalAlignment
 - horizontalArrangement
 - verticalAlignment + horizontalArrangement
- Column
 - horizontalAlignment
 - verticalArrangement
 - horizontalAlignment + verticalArrangement

Row

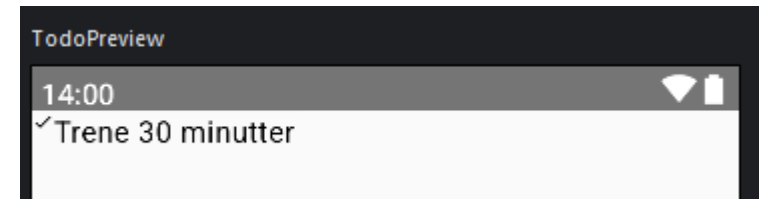
Row – verticalAlignment

- Første kode er OK
- Hvis man justerer på størrelsen på ikone vil det være høyere enn Text.
- Ved å justere VerticalAlignment får man justert elementene vertikalt i forhold til hverandre

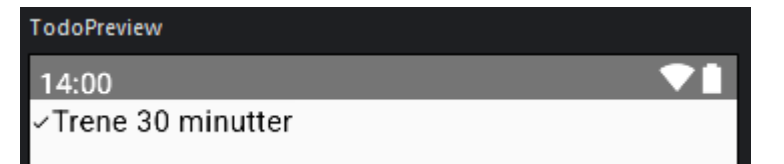
```
Row {  
  Icon(  
    imageVector = Icons.Default.Done,  
    contentDescription = "Done icon"  
  )  
  Text( text: "Trene 30 minutter")  
}
```



```
Row {  
  Icon(  
    imageVector = Icons.Default.Done,  
    contentDescription = "Done icon",  
    modifier = Modifier.size(12.dp)  
  )  
  Text( text: "Trene 30 minutter")  
}
```



```
Row {  
  verticalAlignment = Alignment.CenterVertically  
}{  
  Icon(  
    imageVector = Icons.Default.Done,  
    contentDescription = "Done icon",  
    modifier = Modifier.size(12.dp)  
  )  
  Text( text: "Trene 30 minutter")  
}
```



Row - horizontalArrangement

- horizontalArrangement kan brukes for å styre hvordan elementene sprer seg horisontalt i Row med bl.a.:
 - Start
 - Center
 - End
 - SpaceBetween
 - SpaceAround
 - SpaceEvenly
- Merk at fillMaxWidth må settes for at elementene kan spres horisontalt

```
Row(modifier =  
    Modifier.fillMaxWidth(),  
    verticalAlignment = Alignment.CenterVertically,  
    horizontalArrangement = Arrangement.Center  
)  
{  
    Icon(  
        imageVector = Icons.Default.Done,  
        contentDescription = "Done icon",  
        modifier = Modifier.size(12.dp)  
    )  
    Text(text: "Trene 30 minutter")  
}
```

TodoPreview

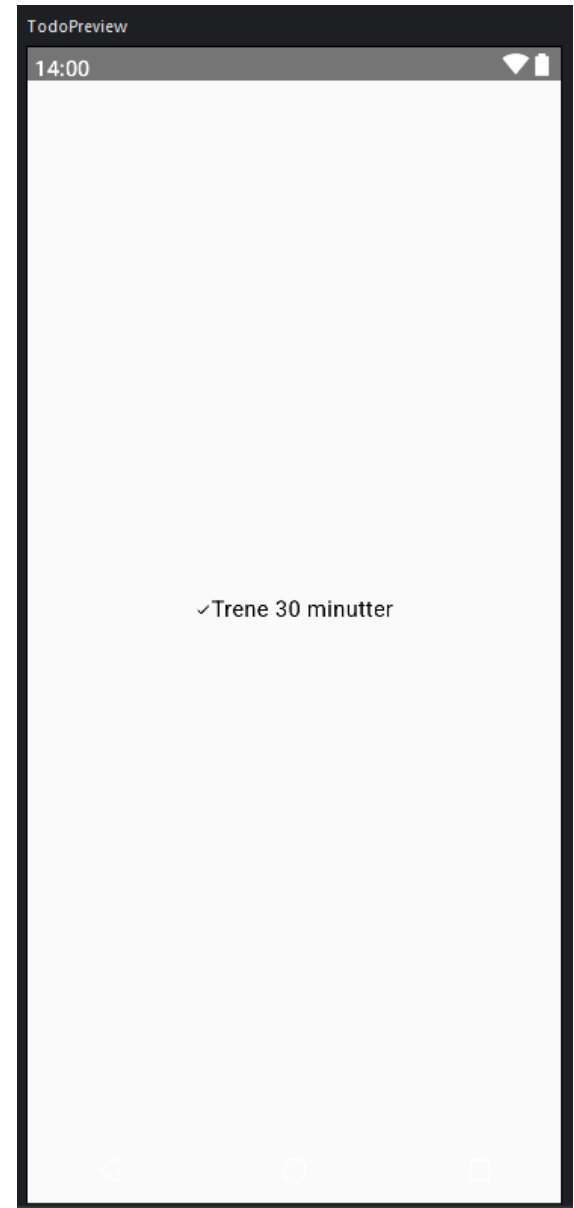
14:00

✓Trene 30 minutter

Row – horizontalArrangement og verticalAlignment

- Hvis Row er eneste elementet og vi både setter horizontalArrangement og verticalAlignment og fillMaxSize brukes, vil vi midtstille innholdet i både x og y-aksen

```
Row (modifier =  
    Modifier.fillMaxSize(),  
    verticalAlignment = Alignment.CenterVertically,  
    horizontalArrangement = Arrangement.Center  
)  
{  
    Icon(  
        imageVector = Icons.Default.Done,  
        contentDescription = "Done icon",  
        modifier = Modifier.size(12.dp)  
    )  
    Text( text: "Trene 30 minutter")  
}
```

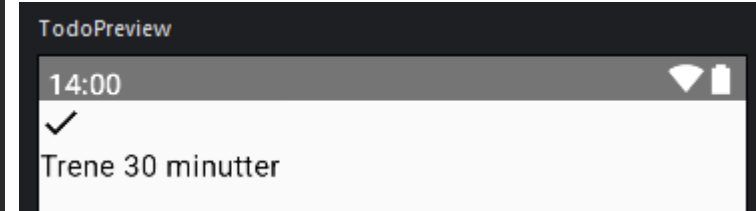


Column

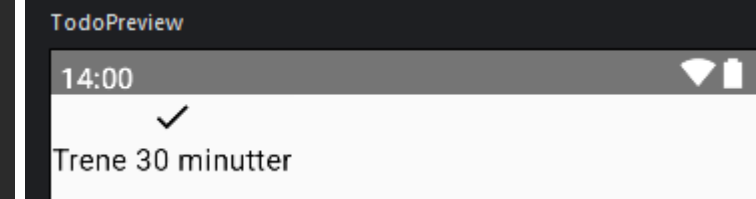
Column - horizontalAlignment

- Default legger elementene seg i en Column fra venstre øvre hjørne og nedover.
- Hvis man bruker horizontalAlignment vil vi se at ikonet og teksten blir sentrert, men det er da i forhold til tekstens bredde.

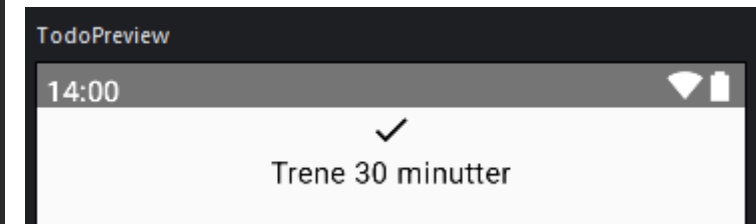
```
Column{  
    Icon(  
        imageVector = Icons.Default.Done,  
        contentDescription = "Done icon"  
    )  
    Text( text: "Trene 30 minutter")  
}
```



```
Column(  
    horizontalAlignment = Alignment.CenterHorizontally  
) {  
    Icon(  
        imageVector = Icons.Default.Done,  
        contentDescription = "Done icon"  
    )  
    Text( text: "Trene 30 minutter")  
}
```



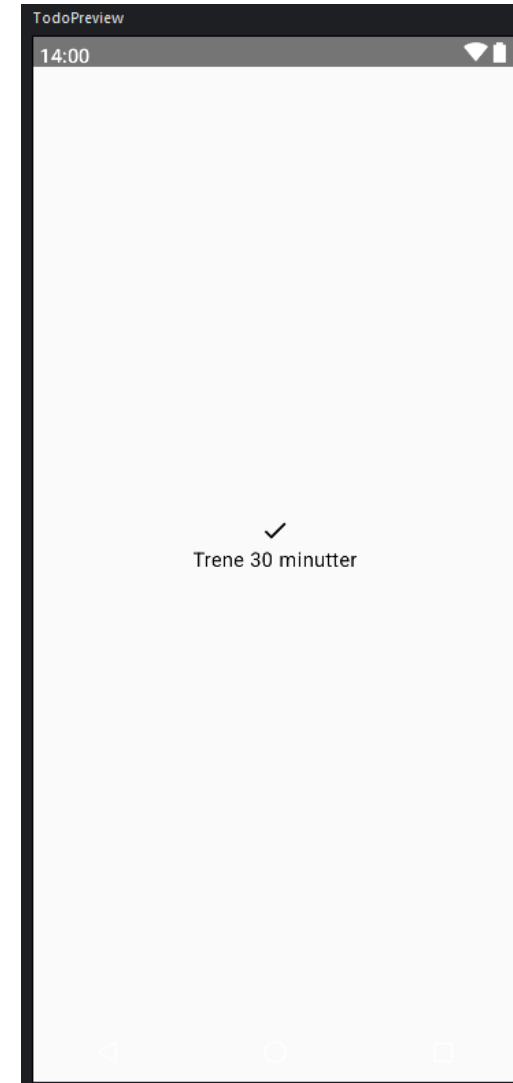
```
Column(  
    horizontalAlignment = Alignment.CenterHorizontally,  
    modifier = Modifier.fillMaxWidth()  
) {  
    Icon(  
        imageVector = Icons.Default.Done,  
        contentDescription = "Done icon"  
    )  
    Text( text: "Trene 30 minutter")  
}
```



Column – verticalArrangement og horizontalAlignment

- Hvis vi bruker verticalArrangement kan man styre elementenes plassering vertikalt, men det krever at Column har rom for det, eksempelvis med fillMaxSize som fyller både bredden og høyden.

```
Column(  
    horizontalAlignment = Alignment.CenterHorizontally,  
    verticalArrangement = Arrangement.Center,  
    modifier = Modifier.fillMaxSize()  
) {  
    Icon(  
        imageVector = Icons.Default.Done,  
        contentDescription = "Done icon"  
    )  
    Text(text: "Trene 30 minutter")  
}
```



Ressurser

- Arrangement:
 - <https://developer.android.com/reference/kotlin/androidx/compose/foundation/layout/Arrangement>