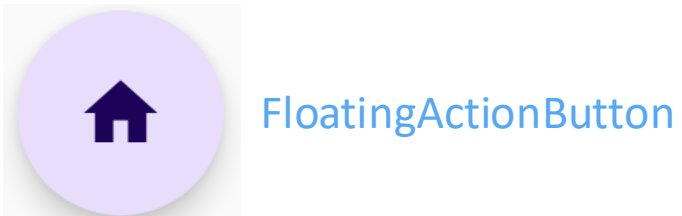
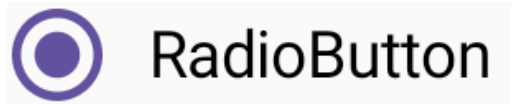
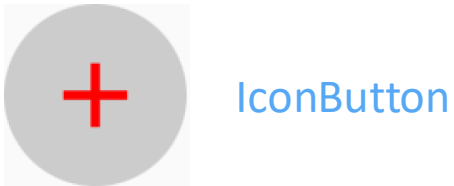
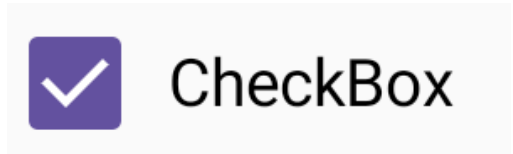


Botones

Compose



[MultiChoiceSegmentedButtonRowScope.SegmentedButton](#)

[SingleChoiceSegmentedButtonRowScope.SegmentedButton](#)



Chips

Button

OutlinedButton

```
@Composable
fun OutlinedButton(
    onClick: () -> Unit,
    modifier: Modifier = Modifier,

    enabled: Boolean = true,
```

```
    shape: Shape = ButtonDefaults.outlinedShape,
    border: BorderStroke? = ButtonDefaults.outlinedButtonBorder,
    contentPadding: PaddingValues = ButtonDefaults.ContentPadding,
    colors: ButtonColors = ButtonDefaults.outlinedButtonColors(),
    elevation: ButtonElevation? = null,
```

```
    content: @Composable RowScope.() -> Unit
)
```

```
@Composable
fun Button(
    onClick: () -> Unit,
    modifier: Modifier = Modifier,

    enabled: Boolean = true,

    shape: Shape = ButtonDefaults.shape,
    border: BorderStroke? = null,
    contentPadding: PaddingValues = ButtonDefaults.ContentPadding,
    colors: ButtonColors = ButtonDefaults.buttonColors(),
    elevation: ButtonElevation? = ButtonDefaults.buttonElevation(),

    content: @Composable RowScope.() -> Unit
)
```



Button

OutlinedButton

onClick:

() -> Unit → lambda que representa qué hacer si se pulsa el botón.

```
Button(onClick = { ... },  
    ...  
) {  
    Text(text="Púlsame")  
}
```

enabled:

Boolean = true → Indica si el botón está habilitado.

shape:

Shape = ButtonDefaults.shape → Indica la forma del botón.

Shape → Forma del botón

- MaterialTheme.shapes.extraSmall**
- MaterialTheme.shapes.small**
- MaterialTheme.shapes.medium**
- MaterialTheme.shapes.large**
- MaterialTheme.shapes.extraLarge**

Button

OutlinedButton

contentPadding:

PaddingValues = ButtonDefaults.ContentPadding → Espaciado interno.

```
Button(onClick = { ... },
      contentPadding = PaddingValues(all = 20.dp),
      ...
    ) {
      Text(text="Púlsame")
    }
```

```
Button(onClick = { ... },
      contentPadding = PaddingValues(vertical = 10.dp,
                                      horizontal= 20.dp
      ),
      ...
    ) {
      Text(text="Púlsame")
    }
```

```
Button(onClick = { ... },
      contentPadding = PaddingValues(start= 10.dp,
                                    end= 20.dp,
                                    top= 20.dp,
                                    bottom= 20.dp
      ),
      ...
    ) {
      Text(text="Púlsame")
    }
```



Button

OutlinedButton

border:

BorderStroke? = null → Borde del botón.

```
Button(onClick = { ... },  
      border = BorderStroke(width = 2.dp,  
                             color = Color.Green),  
      ...  
    ) {  
      Text(text="Púlsame")  
    }
```

elevation:

ButtonElevation? = null → Elevación del botón.

```
ButtonDefaults.elevatedButtonElevation(defaultElevation = 10.dp,  
                                       pressedElevation = 15.dp,  
                                       disabledElevation = 0.dp,  
                                       hoveredElevation = 20.dp,  
                                       focusedElevation = 25.dp  
                                       ),
```

colors:

ButtonColors? = null → colores del botón según sea su estado.

```
ButtonDefaults.buttonColors(containerColor = Color.Green,  
                             contentColor = Color.White,  
                             disabledContainerColor = Color.Gray,  
                             disabledContentColor = Color.Black  
                             )
```

```
@Composable
fun TextButton(
    onClick: () -> Unit,
    modifier: Modifier = Modifier,

    enabled: Boolean = true,

    shape: Shape = ButtonDefaults.textShape,
    border: BorderStroke? = null,
    contentPadding: PaddingValues = ButtonDefaults.TextButtonContentPadding,
    colors: ButtonColors = ButtonDefaults.textButtonColors(),
    elevation: ButtonElevation? = null,

    content: @Composable RowScope.() -> Unit
)
```

onClick:

() -> Unit → lambda que representa qué hacer si se pulsa el *text button*.

```
TextButton(onClick = { ... },
    ...
) {
    Text(text="Púlsame")
}
```

enabled:

Boolean = true → Indica si el *text button* está habilitado.

shape:

Shape = ButtonDefaults.shape → Indica la forma del botón.

Shape → Forma del botón

- MaterialTheme.shapes.extraSmall
- MaterialTheme.shapes.small
- MaterialTheme.shapes.medium
- MaterialTheme.shapes.large
- MaterialTheme.shapes.extraLarge

contentPadding:

PaddingValues = ButtonDefaults.ContentPadding → Espaciado interno.

```
TextButton(onClick = { ... },
    contentPadding = PaddingValues(all = 20.dp),
    ...
) {
    Text(text="Púlsame")
}
```

```
TextButton(onClick = { ... },
    contentPadding = PaddingValues(vertical = 10.dp,
                                    horizontal= 20.dp
    ),
    ...
) {
    Text(text="Púlsame")
}
```

```
TextButton(onClick = { ... },
    contentPadding = PaddingValues(start= 10.dp,
                                    end= 20.dp,
                                    top= 20.dp,
                                    bottom= 20.dp
    ),
    ...
) {
    Text(text="Púlsame")
}
```

border:

BorderStroke? = null → Borde del botón.



```
TextButton(onClick = { ... },
    border = BorderStroke(width = 2.dp,
        color = Color.Gray),
    ...
) {
    Text(text="Púlsame")
}
```

colors:

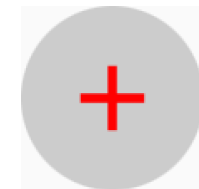
ButtonColors? = null → colores del botón según sea su estado.

```
ButtonDefaults.buttonColors(containerColor = Color.Green,
    contentColor = Color.White,
    disabledContainerColor = Color.Gray,
    disabledContentColor = Color.Black
)
```

elevation:

ButtonElevation? = null → Elevación del botón.

```
ButtonDefaults.elevatedButtonElevation(defaultElevation = 10.dp,
    pressedElevation = 15.dp,
    disabledElevation = 0.dp,
    hoveredElevation = 20.dp,
    focusedElevation = 25.dp
),
```

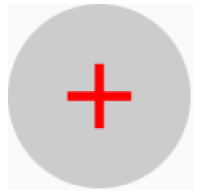


IconButton

```
@Composable
fun IconButton(
    onClick: () -> Unit,
    modifier: Modifier = Modifier,

    enabled: Boolean = true,

    colors: IconButtonColors = IconButtonDefaults.iconButtonColors(),
    content: @Composable () -> Unit
)
```



IconButton

onClick:

() -> Unit → lambda que representa qué hacer si se pulsa el botón.

```
IconButton(onClick = { ... },  
    ...  
    ) {  
    Icon(Icons.Filled.Add, contentDescription = "Añadir", tint = Color.Red)  
}
```

enabled:

Boolean = true → Indica si el botón está habilitado.

colors:

IconButtonColors? = IconButtonDefaults.iconButtonColors() → colores del botón según sea su estado.

```
IconButtonColors(containerColor = Color.LightGray,  
    contentColor = Color.Red,  
    disabledContainerColor = Color.Gray,  
    disabledContentColor = Color.White  
)
```



FloatingActionButton

```
@Composable
fun FloatingActionButton(
    onClick: () -> Unit,
    modifier: Modifier = Modifier,

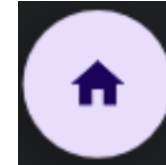
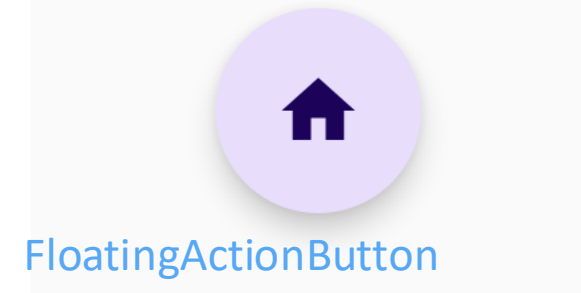
    shape: Shape = FloatingActionButtonDefaults.shape,

    containerColor: Color = FloatingActionButtonDefaults.containerColor,
    contentColor: Color = contentColorFor(containerColor),
    elevation: FloatingActionButtonElevation = FloatingActionButtonDefaults.elevation(),
    content: @Composable () -> Unit,
)
```

onClick:

() -> Unit → lambda que representa qué hacer si se pulsa el botón.

```
FloatingActionButton(onClick = {},  
                    shape = MaterialTheme.shapes.small.copy(CornerRadius(percent = 50)),  
                    )  
{  
    Icon(Icons.Filled.Home, contentDescription = "Home")  
}
```



enabled:

Boolean = true → Indica si el botón está habilitado.



CheckBox

```
@Composable
fun Checkbox(
    checked: Boolean,
    onCheckedChange: ((Boolean) -> Unit)?,
    modifier: Modifier = Modifier,

    enabled: Boolean = true,
    colors: CheckboxColors = CheckboxDefaults.colors(),
)
```



CheckBox

checked:

Boolean → indica si está en estado *checked* o no

onCheckedChangeListener:

((Boolean) -> Unit)? → lambda que representa qué hacer si se pulsa el checkbox.

```
val checked by rememberSaveable( mutableStateOf(false) )
```

```
Row()
{
    Checkbox(checked= checked,
        onCheckedChangeListener= { checked = it }
    )
    Text(text="Acepto términos y condiciones")
}
```

Sólo es válido
al hacer click en
el Checkbox

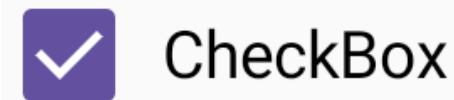
```
val checked by rememberSaveable( mutableStateOf(false) )
val listener : (Boolean) -> Unit = { checked = it }
```

```
Row(modifier = Modifier.fillMaxWidth()
    .toggleable(value = checked,
        enabled = true,
        role = Role.Checkbox,
        onValueChange = { checked = it }
    ),
    verticalAlignment = Alignment.CenterVertically,
)
{
    Checkbox(checked = checked,
        onCheckedChangeListener = null
    )
    Text(text = "Acepto los términos y condiciones", Modifier.padding(start = 8.dp))
}
```

Es válido hacer
click en todo el
Row



Acepto los términos y condiciones



enabled:

Boolean = true → Indica si el checkbox está habilitado.

colors:

CheckboxColors? = null → colores del botón según sea su estado.

```
CheckboxDefaults.colors{checkedColor = Color.Green,  
    uncheckedColor = Color.Gray,  
    checkmarkColor = Color.Black,  
    disabledCheckedColor = Color.Gray,  
    disabledUncheckedColor = Color.LightGray,  
    disabledIndeterminateColor = Color.DarkGray)
```



Switch

```
@Composable
fun Switch(
    checked: Boolean,
    onCheckedChange: ((Boolean) -> Unit)?,
    modifier: Modifier = Modifier,

    enabled: Boolean = true,
    colors: SwitchColors = SwitchDefaults.colors(),
)
```

checked:

Boolean → indica si está en estado *checked* o no



Switch

onCheckedChangeListener:

((Boolean) -> Unit)? → lambda que representa qué hacer si se pulsa el switch.

```
val checked by rememberSaveable( mutableStateOf(false) )
```

```
Row()  
{  
    Switch(checked= checked,  
           onCheckedChangeListener= { checked = it }  
        )  
    Text(text = if (checked) "Acepto los términos y condiciones"  
          else "No acepto los términos y condiciones",  
         modifier = Modifier.padding(start = 8.dp)  
    )  
}
```

Sólo es válido
al hacer click en
el Switch



Acepto los términos y condiciones



No acepto los términos y condiciones

```
val checked by rememberSaveable( mutableStateOf(false) )  
val listener : (Boolean) -> Unit = { checked = it }
```

```
Row(modifier = Modifier.fillMaxWidth()  
    .toggleable(value = checked,  
                enabled = true,  
                role = Role.Checkbox,  
                onValueChange = { checked = it }  
    ),  
    verticalAlignment = Alignment.CenterVertically,  
    )  
{  
    Checkbox(checked = checked,  
            onCheckedChangeListener = null  
    )  
    Text(text = if (checked) "Acepto los términos y condiciones"  
          else "No acepto los términos y condiciones",  
         modifier = Modifier.padding(start = 8.dp)  
    )  
}
```

Es válido hacer
click en todo el
Row

enabled:

Boolean = true → Indica si el switch está habilitado.



Switch

colors:

SwitchColors? = null → colores del botón según sea su estado.

```
SwitchDefaults.colors(  
    checkedThumbColor = Color.www,  
    checkedTrackColor = Color.xxx,  
    checkedBorderColor = Color.yyy,  
    checkedIconColor = Color.zzz,  
  
    uncheckedThumbColor = Color.www,  
    uncheckedTrackColor = Color.xxx,  
    uncheckedBorderColor = Color.yyy,  
    uncheckedIconColor = Color.zzz,  
  
    disabledCheckedThumbColor = Color.www,  
    disabledCheckedTrackColor = Color.xxx,  
    disabledCheckedBorderColor = Color.yyy,  
    disabledCheckedIconColor = Color.zzz,  
  
    disabledUncheckedThumbColor = Color.www,  
    disabledUncheckedTrackColor = Color.xxx,  
    disabledUncheckedBorderColor = Color.yyy,  
    disabledUncheckedIconColor = Color.zzz  
)
```



RadioButton

@Composable

```
fun RadioButton(selected: Boolean,  
    onClick: (() -> Unit)?,  
    modifier: Modifier = Modifier,  
  
    enabled: Boolean = true,  
    colors: RadioButtonColors = RadioButtonDefaults.colors(),  
)
```



RadioButton

selected:

Boolean → indica si el *radio button* está seleccionado o no

onClick:

((Boolean) -> Unit)? → lambda que representa qué hacer si se pulsa el *radio button*.

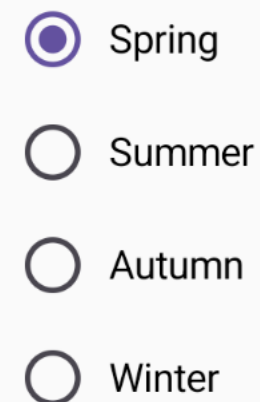
```
<resources>
  <string-array name="seasons">
    <item>Spring</item>
    <item>Summer</item>
    <item>Autumn</item>
    <item>Winter</item>
  </string-array>
</resources>
```

```
enum class Season
{
  Spring, Summer, Autumn, Winter
}
```

```
var currentSeason by rememberSaveable { mutableStateOf(Season.Spring) }

Column(modifier = Modifier.padding(8.dp))
{
  Season.values()
    .forEach { season -> Row(modifier = Modifier.padding(top= 16.dp),
        verticalAlignment = Alignment.CenterVertically
    ) {
      RadioButton(selected = (currentSeason == season),
        onClick = { currentSeason = season }
      )
      Text(text = stringArrayResource(R.array.seasons)[season.ordinal],
        modifier = Modifier.padding(start = 8.dp)
      )
    }
  }
}
```

Sólo es válido
al hacer click en
el RadioButton





RadioButton

onClick:

((Boolean) -> Unit)? → lambda que representa qué hacer si se pulsa el *radio button*.

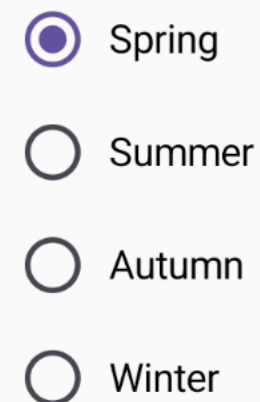
```
var currentSeason by rememberSaveable { mutableStateOf(Season.Spring) }

Column(modifier = Modifier.padding(8.dp))
{
    Season.values()
        .forEach { season -> Row(modifier = Modifier.padding(top= 16.dp)
            .selectable(selected = (currentSeason == season),
                role = Role.RadioButton,
                onClick = { currentSeason = season }
            ),
            verticalAlignment = Alignment.CenterVertically
        ) {
            RadioButton(selected = (currentSeason == season),
                onClick = null
            )
            Text(text = stringArrayResource(R.array.seasons)[season.ordinal],
                modifier = Modifier.padding(start = 8.dp)
            )
        }
    }
}
```

Es válido hacer
click en todo el
Row

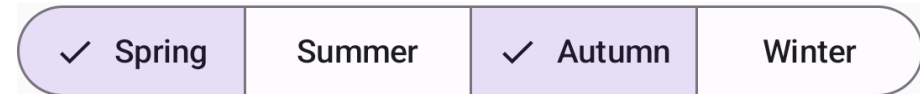
```
<resources>
    <string-array name="seasons">
        <item>Spring</item>
        <item>Summer</item>
        <item>Autumn</item>
        <item>Winter</item>
    </string-array>
</resources>
```

```
enum class Season
{
    Spring, Summer, Autumn, Winter
}
```





```
@Composable
fun SingleChoiceSegmentedButtonRowScope.SegmentedButton(
    selected: Boolean,
    onClick: () -> Unit,
    shape: Shape,
    modifier: Modifier = Modifier,
    enabled: Boolean = true,
    colors: SegmentedButtonColors = SegmentedButtonDefaults.colors(),
    border: BorderStroke = SegmentedButtonDefaults.borderStroke( colors.borderColor(enabled, selected) ),
    icon: @Composable () -> Unit = { SegmentedButtonDefaults.Icon(selected) },
    label: @Composable () -> Unit,
)
```



```
@Composable
@ExperimentalMaterial3Api
fun MultiChoiceSegmentedButtonRowScope.SegmentedButton(
    checked: Boolean,
    onCheckedChange: (Boolean) -> Unit,
    shape: Shape,
    modifier: Modifier = Modifier,
    enabled: Boolean = true,
    colors: SegmentedButtonColors = SegmentedButtonDefaults.colors(),
    border: BorderStroke = SegmentedButtonDefaults.borderStroke( colors.borderColor(enabled, checked) ),
    icon: @Composable () -> Unit = { SegmentedButtonDefaults.Icon(checked) },
    label: @Composable () -> Unit,
)
```




Selección simple

```
var currentSeason by rememberSaveable { mutableStateOf(Season.Spring) }  
val seasonsStringArray = stringArrayResource(R.array.seasons)  
val max = Season.values().size
```

```
SingleChoiceSegmentedButtonRow()  
{  
    Season.values().forEach { season ->  
        SegmentedButton(  
            selected = currentSeason == ❶ season,  
            onClick = { currentSeason = ❷ season },  
            label = { Text(seasonsStringArray[season.ordinal]) }  
            shape = SegmentedButtonDefaults.itemShape(index= season.ordinal, count= max),  
        )  
    }  
}
```

- ❶ `selected` = Indica si el `SegmentedButton` está o no seleccionado
- ❷ `onClick` = lambda que se ejecutará al hacer click sobre el `SegmentedButton`
- ❸ `label` = Composable que se mostrará en el `SegmentedButton`
- ❹ `shape` = `SegmentedButtonDefaults.itemShape(index= posición del SegmentedButton dentro del SingleChoiceSegmentedButtonRow,
count= cuántos SegmentedButton contiene el SingleChoiceSegmentedButtonRow`
,

✓ Spring	Summer	✓ Autumn	Winter
----------	--------	----------	--------


Selección múltiple

```
val selectedSeasons = remember { mutableStateListOf(false, false, false, false) } val seasonsStringArray = stringArrayResource(R.array.seasons)
val max = Season.values().size

MultiChoiceSegmentedButtonRow()
{
    Season.values().forEach { season ->
        SegmentedButton(
            checked = selectedSeasons[season.ordinal],
            onClick = { isChecked -> selectedSeasons[season.ordinal] = isChecked },
            label = { Text(seasonsStringArray[ season.ordinal ]) },
            shape = SegmentedButtonDefaults.itemShape(index = season.ordinal,
                count = Season.values().size
            ),
        )
    }
}
```

- 1 selected = Indica si el SegmentedButton está o no seleccionado
- 2 onClick = lambda que se ejecutará al hacer click sobre el SegmentedButton
- 3 label = Composable que se mostrará en el SegmentedButton
- 4 shape = SegmentedButtonDefaults.itemShape(index= posición del SegmentedButton dentro del MultiChoiceSegmentedButtonRow, count= cuántos SegmentedButton contiene el MultiChoiceSegmentedButtonRow),

Chips

 Assist

✓ Filter

Input ✕

Suggestion

Nombre

✓ Nombre

```
var selectedFieldNombre by remember { mutableStateOf(false) }  
FilterChip(selected = selectedFieldNombre,  
    onClick = { selectedFieldNombre = !selectedFieldNombre },  
    leadingIcon = { if (selectedFieldNombre) Icon(imageVector = Icons.Filled.Check,  
        contentDescription = "Seleccionado Nombre"  
    )  
    else null  
    },  
    label = { Text("Nombre") }  
)
```

✓ Filter


Acción sugerida

```
SuggestionChip(onClick = { /* acción */ },  
    label = { Text("Acción sugerida") }  
)
```

Suggestion

 Editar

```
AssistChip(onClick = { /* acción a ejecutar */ },  
    leadingIcon = { Icon(imageVector = Icons.Filled.Edit,  
        contentDescription = "Editar"  
    )  
    },  
    label = { Text("Editar") }  
)
```

 Assist

Chips

Assist

Filter

Input X

Suggestion

Summer X

Spring X

Summer X

Spring X

Winter X

Spring X

Winter X

+ Autumn

+ Winter

+ Autumn

+ Summer

+ Autumn

```
var seasons = remember { mutableStateListOf<Season>(Season.Spring, Season.Summer) }
var remainderSeasons = setOf( *Season.values() ).minus( seasons );

FlowRow(modifier = Modifier.fillMaxWidth(0.8f), horizontalArrangement = Arrangement.SpaceAround)
{
    seasons.forEach { season -> InputChip(selected = true,
        onClick = { seasons.remove(season) },
        label = { Text(seasonsStringArray[season.ordinal]) },
        trailingIcon = { Icon(imageVector = Icons.Filled.Close,
            contentDescription = "Quitar ${seasonsStringArray[season.ordinal]}"
        ) }
    ),
    },
}

FlowRow(modifier = Modifier.fillMaxWidth(0.8f), horizontalArrangement = Arrangement.SpaceAround)
{
    remainderSeasons.forEach {season -> AssistChip(onClick = { seasons.add(season) },
        leadingIcon = { Icon(imageVector = Icons.Filled.Add,
            contentDescription = "Añadir ${seasonsStringArray[season.ordinal]}"
        ) }
        },
        label = { Text( seasonsStringArray[ season.ordinal ] ) }
    )
}
}
```

Input X

Assist