

# PROGRAMOWANIE URZĄDZEŃ MOBILNYCH

WYKŁAD 5
Jetpack Compose

- Fundamenty
- Komponenty
- o @Composable
- MutableState



```
提 MainActivity.kt
                                                                                                                             ■ Code ■ Split Design
   @Composable
                                                                        🗸 😘 🚆
   fun TextSample() {
       Card(shape = RoundedCornerShape(4.dp)) {
           Row (verticalGravity = Alignment.CenterVertically) {
               Image(
                    vectorResource(R.drawable.ic_jetpack_compose_image)
               Column(Modifier.preferredSizeIn(minWidth = 360.dp)) {
                   Text(
                                                                                                                                   8 5
                       style = MaterialTheme.typography.h5,
                       modifier = Modifier.padding(start=16.dp)
                                                                                                 Welcome to Jetpack
   @Preview
   @Composable
   fun DefaultPreview() {
       ComposeAppTheme(darkTheme = false) {
           TextSample()
```



```
override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContent {
        Column {
            Text(text = "Jeden")
            Text(text = "Dwa")
```



```
override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContent {
        Row {
                                          JedenDwa
            Text(text = "Jeden")
            Text(text = "Dwa")
```



```
override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContent {
        Column(
            modifier = Modifier
                .fillMaxWidth() // szerokość kolumny
                .background(Color.Cyan) // kolor tła kolumny
            Text(text = "Jeden")
            Text(text = "Dwa")
```



```
override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContent {
        Column(
            modifier = Modifier
                .fillMaxSize()
                .background(Color.Cyan),
            horizontalAlignment = Alignment.CenterHorizontally,
            verticalArrangement = Arrangement.Center
            Text(text = "Jeden")
            Text(text = "Dwa")
```

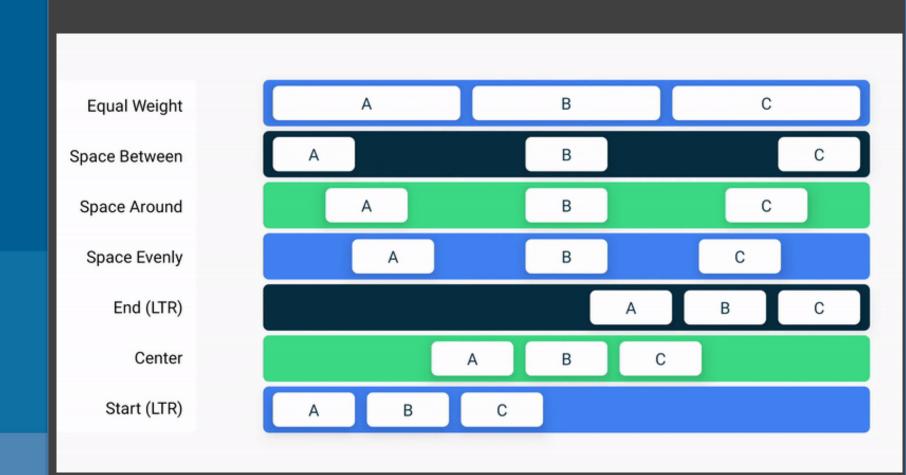


```
Row(
   modifier = Modifier
        .fillMaxSize()
        .background(Color.Cyan),
   horizontalArrangement = Arrangement.Center,
   verticalAlignment = Alignment.CenterVertically
   Text(text = "Jeden")
   Text(text = "Dwa")
```



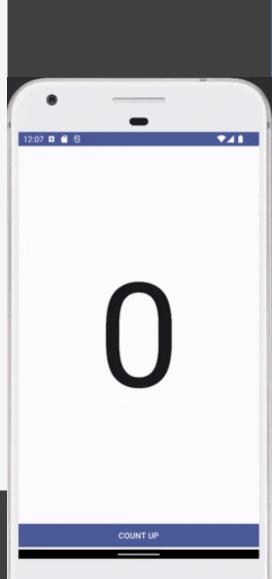
```
Column (
    modifier = Modifier.fillMaxSize(),
    verticalArrangement = Arrangement.spacedBy(8.dp)
    Text(
        text = "Element 1",
        modifier = Modifier.size(50.dp)
    Text(
        text = "Element 2",
        modifier = Modifier.size(80.dp)
    Text(
        text = "Element 3",
        modifier = Modifier.size(100.dp)
```





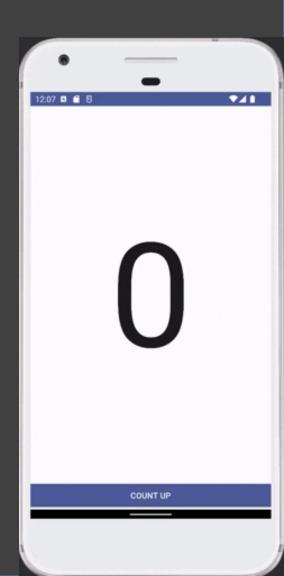


```
@Composable
fun CounterExample() {
   Column(
        verticalArrangement = Arrangement.Center,
        horizontalAlignment = Alignment.CenterHorizontally,
        modifier = Modifier.fillMaxSize()
        Spacer(modifier = Modifier.weight(0.3f))
       Text(
            text = "test",
            fontSize = 250.sp,
            textAlign = TextAlign.Center,
            modifier = Modifier.weight(1f),
        Button(
            modifier = Modifier.fillMaxWidth(),
            shape = RectangleShape
            Text(text = "COUNT UP")
```

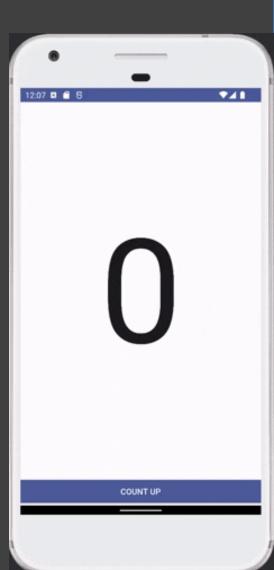




```
@Composable
fun CounterExample() {
    Column(
        verticalArrangement = Arrangement.Center,
        horizontalAlignment = Alignment.CenterHorizontally,
        modifier = Modifier.fillMaxSize()
        val count: MutableState<Int> = remember {
            mutableStateOf(0)
        Spacer(modifier = Modifier.weight(0.3f))
        Text(
            text = "${count.value}",
            fontSize = 250.sp,
            textAlign = TextAlign.Center,
            modifier = Modifier.weight(1f),
        Button(
            onClick = { count.value++ }, // onclick
            modifier = Modifier.fillMaxWidth(),
            shape = RectangleShape
            Text(text = "COUNT UP")
```





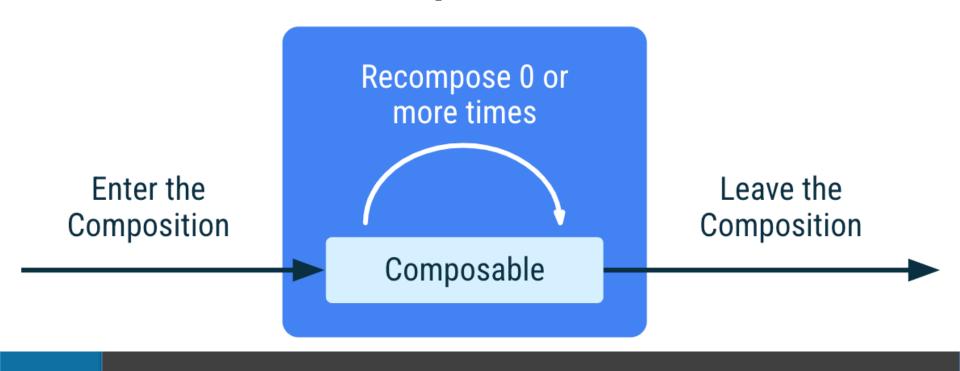




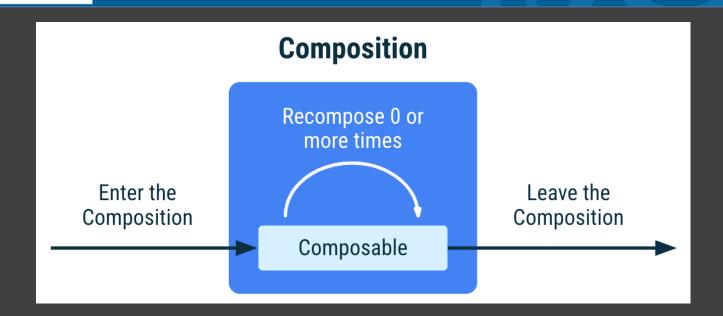
```
val count: MutableState<Int> = remember {
   mutableStateOf(0)
                           Event
                         UI Update Loop
    Display State
                                        Update State
```



## **Composition**







```
@Composable
fun MyComposable() {
    Column {
        Text("Hello")
        Text("World")
    }
}
```

