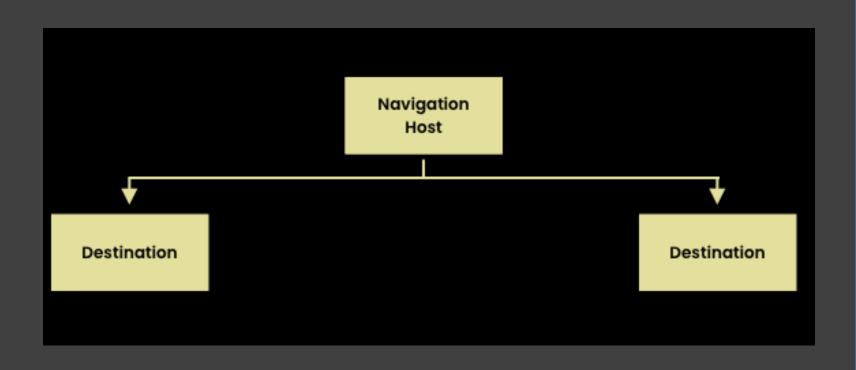


PROGRAMOWANIE URZĄDZEŃ MOBILNYCH

WYKŁAD 7
Jetpack Compose

- Compose Navigation
- Definicja ekranów
- o Scaffold
- BottomNavigation







```
sealed class Screens(val route: String) {
   object MainScreen : Screens("main_screen")
   object SecondScreen : Screens("second_screen")
}
```



```
sealed class Screens(val route: String) {
     object MainScreen : Screens("main screen")
     object SecondScreen : Screens("second_screen")
fun MainScreen(onSecondScreen: () -> Unit) {
   Column(
       Modifier.fillMaxSize(),
       horizontalAlignment = Alignment.CenterHorizontally,
       verticalArrangement = Arrangement.Center
       Text("Home Screen")
       Spacer(modifier = Modifier.height(8.dp))
       Button(onClick = onSecondScreen) {
           Text("Go to Second Screen")
                         @Composable
                         fun SecondScreen(onHome: () -> Unit) {
                             Column(
                                 Modifier.fillMaxSize(),
                                 horizontalAlignment = Alignment.CenterHorizontally,
                                 verticalArrangement = Arrangement.Center
                                 Text("Second Screen")
                                 Spacer(modifier = Modifier.height(8.dp))
                                 Button(onClick = onHome) { Text("Go back to Main Screen") }
```



```
sealed class Screens(val route: String) {
   object MainScreen : Screens("main_screen")
   object SecondScreen : Screens("second_screen")
}
```

```
@Composable
fun Navigation() {
    val navController = rememberNavController()
    NavHost(navController = navController, startDestination = Screens.MainScreen.route) {
        composable(route = Screens.MainScreen.route){
            MainScreen{navController.navigate(Screens.SecondScreen.route)}
        }
        composable(route = Screens.SecondScreen.route) {
            SecondScreen {navController.popBackStack()}
        }
    }
}
```



```
sealed class Screens(val route: String) {
   object MainScreen : Screens("main_screen")
   object SecondScreen : Screens("second_screen")
}

composable(route = Screens.MainScreen.route){
   val arg = 5
   MainScreen{navController.navigate(Screens.SecondScreen.route + "/$arg")}
}
```



```
sealed class Screens(val route: String) {
    object MainScreen : Screens("main screen")
    object SecondScreen : Screens("second_screen")
composable(route = Screens.MainScreen.route){
   val arg = 5
   MainScreen{navController.navigate(Screens.SecondScreen.route + "/$arg")}
composable(route = Screens.SecondScreen.route + "/{arg}"){
   val arg = it.arguments?.getString("arg")
   SecondScreen(arg) {navController.popBackStack()}
```

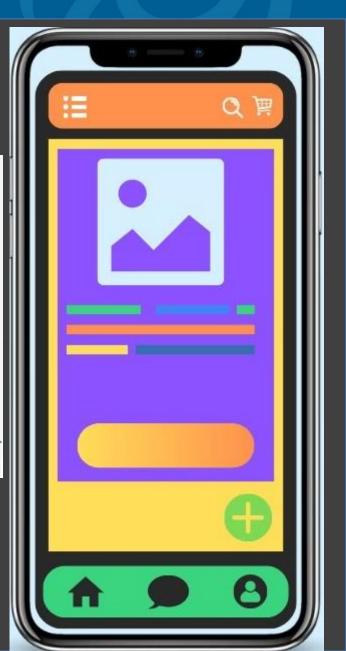


```
sealed class Screens(val route: String) {
    object MainScreen : Screens("main screen")
    object SecondScreen : Screens("second_screen")
composable(route = Screens.MainScreen.route){
    val arg = 5
    MainScreen{navController.navigate(Screens.SecondScreen.route + "/$arg")}
composable(route = Screens.SecondScreen.route + "/{arg}"){
    val arg = it.arguments?.getString("arg")
    SecondScreen(arg) {navController.popBackStack()}
@Composable
fun SecondScreen(arg: String?, onHome: () -> Unit) {
    Column(
        Text("Second Screen. Argument: $arg")
```



Scaffold

```
@Composable
fun ScaffoldDemo() {
    Scaffold(
            scaffoldState = scaffoldState,
            topBar =
            floatingActionButtonPosition =
            floatingActionButton =
            drawerContent =
            content =
            bottomBar =
```





```
sealed class Screens(val route: String) {
   object HomeScreen : Screens("home")
   object FirstScreen : Screens("first")
   object SecondScreen : Screens("second")
}
```

```
sealed class BottomBar(
    val route: String,
    val title: String,
    val icon: ImageVector
) {
    object Home : BottomBar(Screens.HomeScreen.route, "Home", Icons.Default.Home)
    object First : BottomBar(Screens.FirstScreen.route, "First", Icons.Default.Info)
    object Second : BottomBar(Screens.SecondScreen.route, "Second", Icons.Default.Email)
}
```

```
@SuppressLint("UnusedMaterial3ScaffoldPaddingParameter")
@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun Navigation(){
    val navController = rememberNavController()
    Scaffold(
        bottomBar = { BottomMenu(navController = navController)},
        content = { BottomNavGraph(navController = navController) }
    )
}
```



```
@SuppressLint("UnusedMaterial3ScaffoldPaddingParameter")
@OptIn(ExperimentalMaterial3Api::class)
                                                                 2:07 8 🖺
@Composable
fun Navigation(){
   val navController = rememberNavController()
   Scaffold(
       bottomBar = { BottomMenu(navController = navController)},
       content = { BottomNavGraph(navController = navController)
                                                                     Home Screen
@Composable
fun BottomNavGraph(navController: NavHostController){
    NavHost(
        navController = navController,
        startDestination = Screens.HomeScreen.route
        composable(route = Screens.HomeScreen.route){ HomeScreen() }
        composable(route = Screens.FirstScreen.route){ FirstScreen() }
        composable(route = Screens.SecondScreen.route){ SecondScreen() }
```



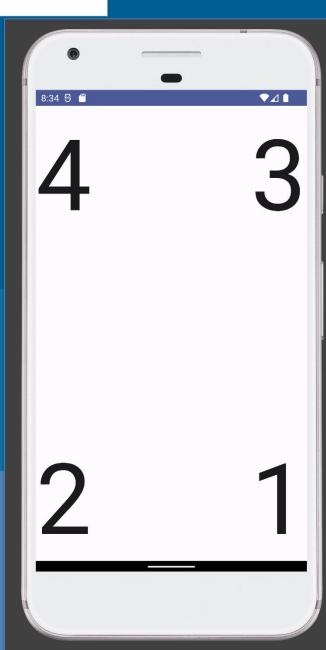
2.07 8 🗂

```
@Composable
         fun Navigation(){
             val navController = rememberNavController()
             Scaffold(
                 bottomBar = { BottomMenu(navController = navController)},
                 content = { BottomNavGraph(navController = navController) }
@Composable
                                                                                    Home Screen
fun BottomMenu(navController: NavHostController){
    val screens = listOf(
        BottomBar.Home, BottomBar.First, BottomBar.Second
    val navBackStackEntry by navController.currentBackStackEntryAsState()
    val currentDestination = navBackStackEntry?.destination
    NavigationBar{
        screens.forEach{screen ->
            NavigationBarItem(
                label = { Text(text = screen.title)},
                icon = {Icon(imageVector = screen.icon, contentDescription = "icon")},
                selected = currentDestination?.hierarchy?.any { it.route == screen.route } == true,
                onClick = {navController.navigate(screen.route)}
```

@SuppressLint("UnusedMaterial3ScaffoldPaddingParameter")

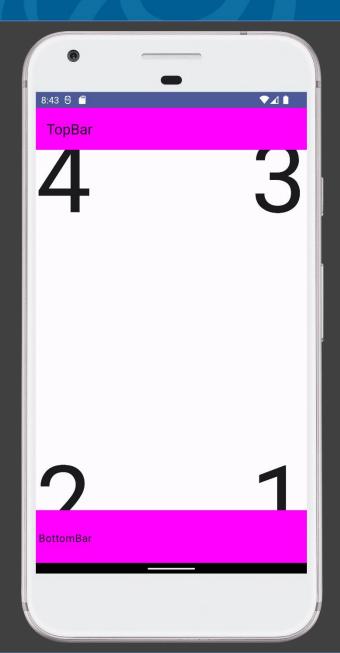
@OptIn(ExperimentalMaterial3Api::class)











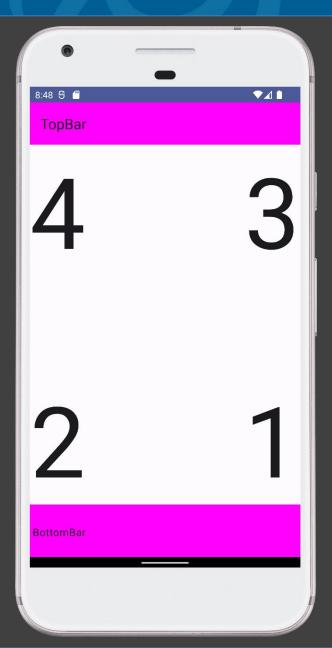




```
@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun PaddingValuesIssue(){
   Scaffold (
        topBar = { TopAppBar(title = { Text("TopBar") }, colors = TopAppBarDefaults.smallTopAppBarColors(con
        ) },
        content = { paddingValues ->
            Box(modifier = Modifier
                    .fillMaxSize()
                    .padding(paddingValues) // wykorzystujemy automatycznie wygenerowang wartość marginesów
                Text(text = "1", fontSize = 150.sp, modifier = Modifier.align(Alignment.BottomEnd))
                Text(text = "2", fontSize = 150.sp, modifier = Modifier.align(Alignment.BottomStart))
                Text(text = "3", fontSize = 150.sp, modifier = Modifier.align(Alignment.TopEnd))
                Text(text = "4", fontSize = 150.sp, modifier = Modifier.align(Alignment.TopStart))
        bottomBar = { BottomAppBar(containerColor = Color.Magenta) { Text(text = "BottomBar") }}
```









```
@OptIn(ExperimentalFoundationApi::class)
@Composable
fun MainLayout(){
    val data = listOf(
        "Tab 1" to Icons.Filled.Home,
        "Tab 2" to Icons.Filled.Person,
        "Tab 3" to Icons.Filled.Phone,
        "Tab 4" to Icons.Filled.Email,
    val pagerState = rememberPagerState()
    val coroutineScope = rememberCoroutineScope()
    Column {
        Tabs(pagerState = pagerState, coroutineScope = coroutineScope, data = data)
        Pages(pagerState = pagerState, data = data)
```



```
@OptIn(ExperimentalFoundationApi::class)
@Composable
fun MainLayout(){
    val data = listOf(
        "Tab 1" to Icons.Filled.Home,
        "Tab 2" to Icons.Filled.Person,
        "Tab 3" to Icons.Filled.Phone,
        "Tab 4" to Icons.Filled.Email,
)

val pagerState = rememberPagerState()
val coroutineScope = rememberCoroutineScope()

Column {
    Tabs(pagerState = pagerState, coroutineScope = coroutineScope, data = data)
        Pages(pagerState = pagerState, data = data)
}
}
```



```
@OptIn(ExperimentalFoundationApi::class)
@Composable
fun MainLayout(){
   val data = listOf(
     "Tab 1" to Icons.Filled.Home,
     "Tab 2" to Icons.Filled.Person,
     "Tab 3" to Icons.Filled.Phone,
     "Tab 4" to Icons.Filled.Email,
   val pagerState = rememberPagerState()
   val coroutineScope = rememberCoroutine
                               @OptIn(ExperimentalFoundationApi::class)
     Tabs(pagerState = pagerState, corc @Composable
  Column {
     Pages(pagerState = pagerState, dat fun Pages(pagerState: PagerState, data: List<Pair<String, ImageVector>>) {
                                   HorizontalPager(
                                         state = pagerState,
                                         modifier = Modifier
                                              .fillMaxSize()
                                              .wrapContentSize(Alignment.Center),
                                         pageCount = data.size,
                                         pageSize = PageSize.Fill
                                    ) { index ->
                                        Column(
                                              modifier = Modifier.fillMaxSize(),
                                              verticalArrangement = Arrangement.Center,
                                             horizontalAlignment = Alignment.CenterHorizontally
                                             Text(
                                                  text = data[index].first,
```



```
@OptIn(ExperimentalFoundationApi::class)
@Composable
fun MainLayout(){
   val data = listOf(
      "Tab 1" to Icons.Filled.Home,
      "Tab 2" to Icons.Filled.Person,
                                            12:24 5 6
                                                                              741
      "Tab 3" to Icons.Filled.Phone,
      "Tab 4" to Icons.Filled.Email,
                                               Tab 1
                                                          Tab 2
                                                                    Tab 3
                                                                               Tab 4
   val pagerState = rememberPagerState()
   val coroutineScope = rememberCoroutine
                                                                                        class)
   Column {
      Tabs(pagerState = pagerState, corc @Co
      Pages(pagerState = pagerState, dat fun
                                                                                        data: List<Pair<String, ImageVector>>) {
                                                                                       ment.Center),
                                                              Tab 1
                                                                                       llMaxSize(),
                                                                                       Arrangement.Center,
                                                                                       Alignment.CenterHorizontally
                                                                                        .first,
```