```
androidx.compose.material3.ExperimentalMaterial3Api
                                                                                                                                                                                                                                                                                                                                            import androidx.compose.foundation.layout.fillMaxWidth
                                                                                                                                                                                                                                                                                                          import androidx.compose.foundation.layout.fillMaxSize
                                                                                                                                                                                                                                                                                                                                                                                                                                               androidx.compose.material.icons.filled.Search
                                                                                                                                                                                                                                                                                                                                                                             import androidx.compose.foundation.layout.padding
                                                                                                                                                                                                                                                                         androidx.compose.foundation.layout.Column
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      import androidx.compose.material3.MaterialTheme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            import androidx.compose.runtime.mutableStateOf
                                                                                                                                                                                                                                                                                                                                                                                                               import androidx.compose.material.icons.Icons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   import androidx.compose.material3.IconButton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     import androidx.compose.material3.TextField
                                                                                                                                                                                                                                      androidx.activity.compose.setContent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        import androidx.compose.runtime.Composable
                                                                                                                                                                                                      androidx.activity.ComponentActivity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    import androidx.compose.material3.Surface
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           import androidx.compose.runtime.getValue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              import androidx.compose.runtime.setValue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              import androidx.compose.runtime.remember
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     androidx.compose.material3.Text
                                                                 import android.annotation.SuppressLint
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                import androidx.compose.material3.Icon
1 package com.bst.assignment3_20bce7458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 androidx.compose.ui.Modifier
                                                                                                    import android.content.Intent
                                                                                                                                                                     import android.os.Bundle
                                                                                                                                      import android.net.Uri
                                                                                                                                                                                                      import
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     import
                                                                                                                                                                                                                                      import
                                                                                                                                                                                                                                                                        import
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 import
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27 import
                                                                                                                                                                                                                                                                                                          10
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```
// A surface container using the 'background' color from the theme
                                                                            import com.bst.assignment3_20bce7458.ui.theme.Assignment3_20BCE7458Theme
                                                                                                                                                                                                                                                                                                                                                color = MaterialTheme.colorScheme.background
                                                                                                                                                           override fun onCreate(savedInstanceState: Bundle?) {
                                                                                                                                                                                                                                                                                                                    modifier = Modifier.fillMaxSize(),
                                                   30 import androidx.lifecycle.viewmodel.compose.viewModel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           val viewModel: YouTubeViewModel = viewModel()
28 import androidx.compose.ui.tooling.preview.Preview
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              @OptIn(ExperimentalMaterial3Api::class)
                                                                                                                              33 class MainActivity : ComponentActivity() {
                                                                                                                                                                                     super.onCreate(savedInstanceState)
                                                                                                                                                                                                                                     Assignment3_20BCE7458Theme {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 @SuppressLint("RememberReturnType")
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       val videos = viewModel.videos
                      29 import androidx.compose.ui.unit.dp
                                                                                                                                                                                                                                                                                                Surface(
                                                                                                                                                                                                          setContent {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         acomposable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  fun App() {
                                                                                                                                                                                                                                                                  38
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```
Icon(Icons.Default.Search, contentDescription = "Search")
                                                                                                                                                                                              IconButton(onClick = { viewModel.searchVideos(value) }) {
                                                                                                                                                                                                                                                                                                        val intent = Intent(Intent.ACTION_VIEW, Uri.parse(it))
                                                                                                       placeholder = { Text("Search videos") },
var value by remember { mutableStateOf("") }
                                                                                                                                                                                                                                                                                      YouTubeVideoList(videos, onClick = {
                                                                                       onValueChange = { value = it }
                                                                                                                                                                                                                                                                                                                          startActivity(intent)
                                                                                                                                                             .fillMaxWidth(),
                                                                                                                         modifier = Modifier
                                                                                                                                                                                                                                                                                                                                                                                                                @Preview(showBackground = true)
                                                                                                                                          .padding(16.dp)
                                                                                                                                                                              trailingIcon = {
                                                                     value = value,
                                                                                                                                                                                                                                                                                                                                                                                                                                                    fun GreetingPreview() {
                                                    TextField(
                                  Column {
                                                                                                                                                                                                                                                                                                                                                                                                                                  @Composable
                                                                                                                                                                             666768
                                                                                                                                                                                                                                 69
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gnment3_20bce7458\MainActivity.kt	
Inment3_20BCE7458\app\src\main\java\com\bst\ass	
\saiteja\Android projects\Assig	
File - C:\Users	

CE7458Theme {						
Assignment3_20BCE7458Theme {	App	٠,	د لم			
82	85	84		{ 98	87	88

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ile - C:\Users\saiteja\Android projects\Assignment3_20BCE7458\app\src\main\java\com\bst\assignment3_20bce7458\YouTubeVideoList.kt
                                                                                                                                                                                                                                                                                                                                                                                                  import androidx.compose.foundation.shape.RoundedCornerShape
                                                                                                                                                                                                                 import androidx.compose.foundation.layout.fillMaxWidth
                                                                                                                                                                                                                                                                                                                        androidx.compose.foundation.lazy.LazyColumn
                                                                                                                                                                                                                                                                                      androidx.compose.foundation.layout.padding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    import com.bst.assignment3_20bce7458.YouTubeVideo
                                                                                                                                          import androidx.compose.foundation.layout.Column
                                                                                                                                                                               androidx.compose.foundation.layout.Spacer
                                                                                                                                                                                                                                                   androidx.compose.foundation.layout.height
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       import androidx.compose.ui.text.font.FontWeight
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     import androidx.compose.ui.layout.ContentScale
                                                                                                                                                                                                                                                                                                                                                             androidx.compose.foundation.lazy.items
                                                                                                       import androidx.compose.foundation.clickable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       import androidx.compose.material3.TextButton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          androidx.compose.runtime.Composable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      import androidx.compose.ui.text.TextStyle
                                                                                                                                                                                                                                                                                                                                                                                                                                     import androidx.compose.material3.Text
                                1 package com.bst.assignment3_20bce7458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              import androidx.compose.ui.draw.clip
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            androidx.compose.ui.Modifier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               import androidx.compose.ui.unit.sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          import androidx.compose.ui.unit.dp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   videos: List<YouTubeVideo>,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    import coil.compose.AsyncImage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             fun YouTubeVideoList(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             @Composable
                                                                                                                                                                             import
                                                                                                                                                                                                                                                                                                                                                              import
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            import
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```
style = TextStyle(fontSize = 18.sp, fontWeight = FontWeight.
                                                                                                                                                                                                                                                                                                                                                               Spacer(modifier = Modifier.height(8.dp))
TextButton(onClick = { onClick(video.videoUrl)}) {
                                                                                                                                                   .clickable { /* Handle video item click */ }
                                                                                                                                                                                                                                                                                                         .clip(shape = RoundedCornerShape(8.dp)),
                                                                                                                                                                                                                               contentDescription = "Profile picture",
                                   //update this code according to letest jetpack compose
                                                                                                                                                                                                                                                                                                                            contentScale = ContentScale.Crop
                                                                                                                                                                                                           model = video.thumbnailUrl,
                                                                                                                                                                                                                                                                                                                                                                                                                      text = video.title,
                                                                       items(items = videos) { video ->
                                                                                                                                                                                                                                                 modifier = Modifier
                                                                                                                                                                                                                                                                   .height(200.dp)
                                                                                                                                                                                                                                                                                     .fillMaxWidth()
                                                                                                            modifier = Modifier
                                                                                                                              .padding(16.dp)
onClick: (String) -> Unit
                                                                                                                                                                                         AsyncImage(
                                                                                                                                                                                                                                                                                                                                                                                                  Text(
                                                                                              Column(
                                                     LazyColumn {
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bold)
                                                                                                                                                    36
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4.dp))														
er(modifier = Modifier.height(Text(text = video.description)													
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54	22	26	22	58	59 }	09								

```
private val apiKey = "AIzaSyDylNfqOp2GeYfaOUv-ojz8LTATf1to3tQ" // Replace with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               private val apiService = retrofit.create(YouTubeApiService::class.java)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        private val _videos = mutableStateListOf<YouTubeVideo>()
                                                                                                                                                                                                                                                                                                                                                                                                                                           addConverterFactory(GsonConverterFactory.create())
                                                                                                                                                                                                                                                                                                                                                                                                            .baseUrl("https://www.googleapis.com/youtube/v3/")
                                                                                                                                                                                                      import retrofit2.converter.gson.GsonConverterFactory
                                                       3 import androidx.compose.runtime.mutableStateListOf
                                                                                                                                                                                                                                                                                                                                                                                 private val retrofit = Retrofit.Builder()
                                                                                                                 import androidx.lifecycle.viewModelScope
                                                                                                                                                                                                                                                             10 class YouTubeViewModel : ViewModel() {
1 package com.bst.assignment3_20bce7458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           fun searchVideos(query: String) {
                                                                                  import androidx.lifecycle.ViewModel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   val videos: List<YouTubeVideo>
                                                                                                                                             import kotlinx.coroutines.launch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          viewModelScope.launch {
                                                                                                                                                                       import retrofit2.Retrofit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      get() = _videos
                                                                                                                                                                                                                                                                                                                          your API key
                                                                                18
19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20
21
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23
```

27	<pre>val response = apiService.searchVideos(apiKey = apiKey, query =</pre>
query)	
28	_videos.clear()
29	_videos.addAll(response.items.map { item ->
30	<pre>val videoId = item.id.videoId</pre>
31	<pre>val snippet = item.snippet</pre>
32	YouTubeVideo(
33	title = snippet.title,
34	description = snippet.description,
35	thumbnailUrl = snippet.thumbnails.medium.url,
36	<pre>videoUrl = "https://www.youtube.com/watch?v=\$videoId"</pre>
37	
38	}
39	<pre>} catch (e: Exception) {</pre>
40	// Handle error
41	
42 }	
43 }	
44 }	
45	

```
@Query("maxResults") maxResults: Int = 10,
                                                                                                                                                                                                                      @Query("key") apiKey: String,
@Query("part") part: String = "snippet"
                                                                                                                                                                                                                                                                                                                                                                                                                                                         val items: List<YouTubeSearchResult>
1 package com.bst.assignment3_20bce7458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              val snippet: YouTubeVideoSnippet
                                                                                                                                                                                                                                                                                                           @Query("q") query: String
                                                                                                                                                                                                                                                                                                                                                                                                                            16 data class YouTubeSearchResponse(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20 data class YouTubeSearchResult(
                                                                                                                               6 interface YouTubeApiService {
7      @GET("search")
                                                                                                                                                                                             suspend fun searchVideos(
                                                                                                                                                                                                                                                                                                                                       ): YouTubeSearchResponse
                                                                                import retrofit2.http.Query
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     val id: YouTubeVideoId,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25 data class YouTubeVideoId(
                                                     3 import retrofit2.http.GET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                val videoId: String
                                                                                                                                                                 (@GET("search")
                                                                            4
                                                                                                                                                                                                                                                                                                           12
```

```
val thumbnails: YouTubeVideoThumbnails
                                                                                                                                                                val medium: YouTubeVideoThumbnail
                                                                                                                                           35 data class YouTubeVideoThumbnails(
                                                                                                                                                                                                                                      39 data class YouTubeVideoThumbnail(
29 data class YouTubeVideoSnippet(
30 val title: String,
                       val title: String,
val description: String,
                                                                                                                                                                                                                                                              val url: String
                                                                                             33
                                                                                                                                                                                                                                                                                      41
                                                                                                                                                                                                                                                                                                                                   43
```

```
9 // Set of Material typography styles to start with
                                                                                                                  import androidx.compose.ui.text.font.FontFamily
                                                                                                                                             import androidx.compose.ui.text.font.FontWeight
1 package com.bst.assignment3_20bce7458.ui.theme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /* Other default text styles to override
                                                        3 import androidx.compose.material3.Typography
                                                                                     import androidx.compose.ui.text.TextStyle
                                                                                                                                                                                                                                                                                                                         fontFamily = FontFamily.Default,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              fontFamily = FontFamily.Default,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         fontFamily = FontFamily.Default,
                                                                                                                                                                                                                                                                                                                                                    fontWeight = FontWeight.Normal,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          fontWeight = FontWeight.Normal,
                                                                                                                                                                           import androidx.compose.ui.unit.sp
                                                                                                                                                                                                                                                                                                                                                                                                                                              LetterSpacing = 0.5.sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    letterSpacing = 0.sp
                                                                                                                                                                                                                                                                10 val Typography = Typography(
                                                                                                                                                                                                                                                                                                                                                                                                          lineHeight = 24.sp,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  titleLarge = TextStyle(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LineHeight = 28.sp,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           labelSmall = TextStyle(
                                                                                                                                                                                                                                                                                              bodyLarge = TextStyle(
                                                                                                                                                                                                                                                                                                                                                                              fontSize = 16.sp,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       fontSize = 22.sp,
                                                                                  4 6 2 7
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fontWeight = FontWeight.Medium,	tSize = 11.sp,	eHeight = 16.sp,	terSpacing = 0.5.sp													
28 fon				$\overline{}$	33 */	$\overline{}$										

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1 package com.bst.assignment3_20bce7458.ui.theme
                                                           3 import androidx.compose.ui.graphics.Color
                                                                                   4

5 val Purple80 = Color(0xFFD0BCFF)

6 val PurpleGrey80 = Color(0xFFCCC2DC)

7 val Pink80 = Color(0xFFEFB8C8)

8
                                                                                                                                                                                                                                           9 val Purple40 = Color(0xFF6650a4)
10 val PurpleGrey40 = Color(0xFF625b71)
                                                                                                                                                                                                                                                                                                           11 val Pink40 = Color(0xFF7D5260)
```

```
import androidx.compose.material3.dynamicLightColorScheme
                                                                                                                                                                                                                                                     import androidx.compose.material3.dynamicDarkColorScheme
                                                                                                                                           import androidx.compose.foundation.isSystemInDarkTheme
                                                                                                                                                                                                                                                                                                                             import androidx.compose.material3.lightColorScheme
                                                                                                                                                                                                                   import androidx.compose.material3.darkColorScheme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             import androidx.compose.ui.platform.LocalContext
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   24 private val LightColorScheme = lightColorScheme(
                                                                                                                                                                                  import androidx.compose.material3.MaterialTheme
1 package com.bst.assignment3_20bce7458.ui.theme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18 private val DarkColorScheme = darkColorScheme(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  import androidx.compose.ui.platform.LocalView
                                                                                                                                                                                                                                                                                                                                                                     import androidx.compose.runtime.Composable
                                                                                                                                                                                                                                                                                                                                                                                                      import androidx.compose.runtime.SideEffect
                                                                                                                                                                                                                                                                                                                                                                                                                                            import androidx.compose.ui.graphics.toArgb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        import androidx.core.view.WindowCompat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      secondary = PurpleGrey80,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            secondary = PurpleGrey40,
                                                                      import android.app.Activity
                                                                                                          import android.os.Build
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          primary = Purple40,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  primary = Purple80,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tertiary = Pink40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tertiary = Pink80
                                                                                                                                                                                                                                                                                                                                10
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                                                                                                       4 6 7 7
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```
dynamicColor && Build.VERSION.SDK_INT >= Build.VERSION_CODES.S ->
    val context = LocalContext.current
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if (darkTheme) dynamicDarkColorScheme(context) else
                                                                                                                                                                                                                                                                                                                                                                                         // Dynamic color is available on Android 12+
                                                                                                                                                                                                                                                                                                                                                               darkTheme: Boolean = isSystemInDarkTheme(),
/* Other default colors to override
                                                                                                                                                                  onBackground = Color(OxFF1C1B1F),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       darkTheme -> DarkColorScheme
                                                                                                                                                                                                                                                                                                                                                                                                                                                  content: @Composable () -> Unit
                          background = Color(0xFFFFBFE),
                                                                                                                                                                                              onSurface = Color(0xFF1C1B1F),
                                                                                                                                                                                                                                                                                                                                                                                                                        dynamicColor: Boolean = true,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    dynamicLightColorScheme(context)
                                                     surface = Color(0xFFFFBFE),
                                                                                                                                                                                                                                                                                                                                   fun Assignment3_20BCE7458Theme(
                                                                                                            onSecondary = Color.White,
                                                                                                                                       onTertiary = Color.White,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      val colorScheme = when {
                                                                                    onPrimary = Color.White,
                                                                                                                                                                                                                                                                                                           40 aComposable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             95
                                                                                                                                                                                                                                                     38
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```

```
window.statusBarColor = colorScheme.primary.toArgb()
                                                                                                                           WindowCompat.getInsetsController(window, view).
                                                                                      val window = (view.context as Activity).window
                                                                                                                                             isAppearanceLightStatusBars = darkTheme
                                                                                                                                                                                                                                       colorScheme = colorScheme,
else -> LightColorScheme
                                val view = LocalView.current
                                                                                                                                                                                                                                                         typography = Typography,
                                                  if (!view.isInEditMode) {
                                                                                                                                                                                                                                                                            content = content
                                                                      SideEffect {
                                                                                                                                                                                                                     MaterialTheme(
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