

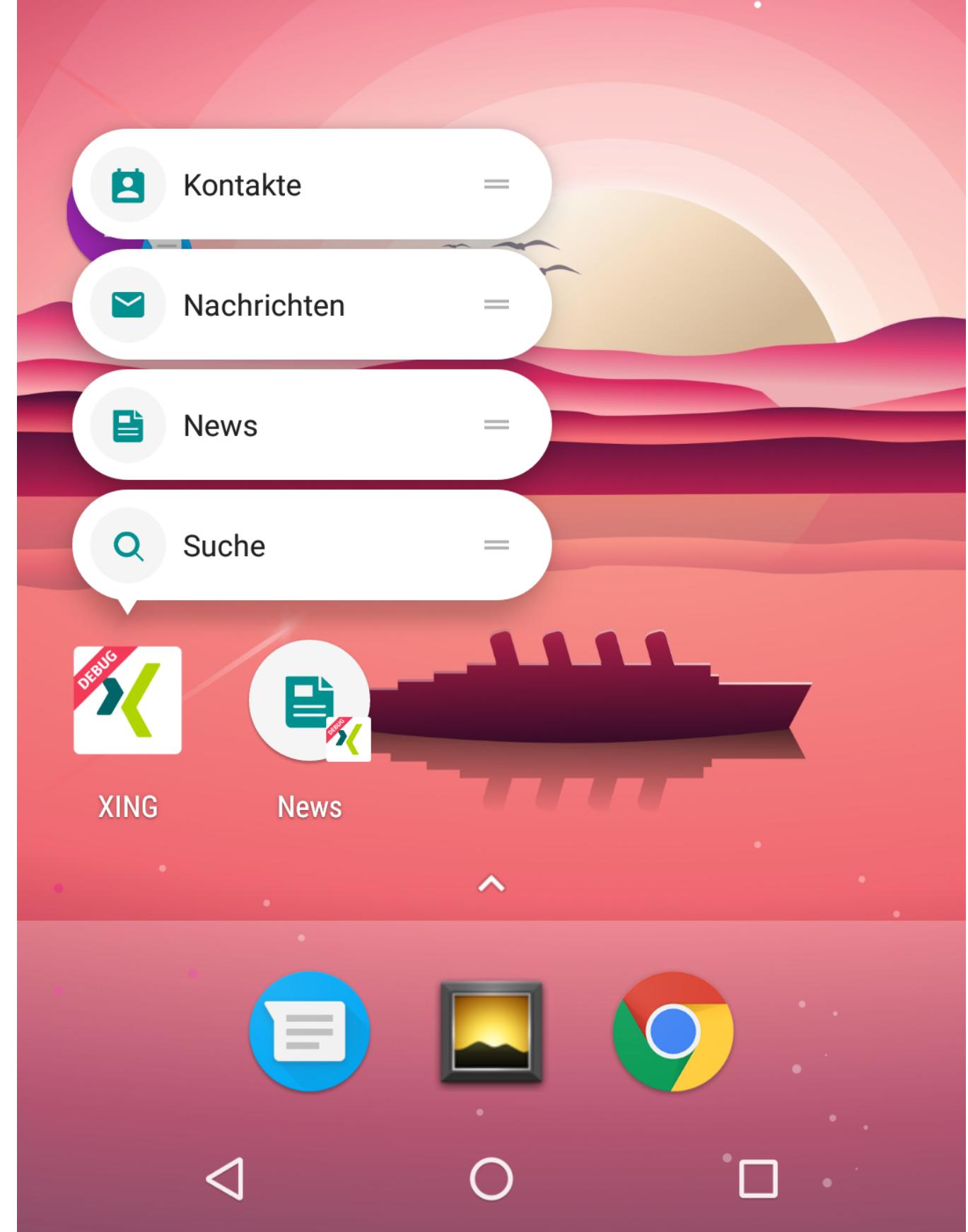
APP SHORTCUTS

THE SHORTCUT INTO YOUR APP

AGENDA

- 1. INTRODUCTION**
- 2. STATIC VS. DYNAMIC SHORTCUTS**
- 3. USAGE TRACKING**
- 4. DISABLING SHORTCUTS**
- 5. BEST PRACTICES**

INTRODUCTION



INTRODUCTION

- > **ANDROID 7.1 (API 25) OR HIGHER**
 - > **SPECIFIC ACTIONS**
 - > **LAUNCHER SUPPORT**
 - > **INTENTS**
 - > **MAXIMUM: 5**
 - > **PINNED SHORTCUTS**

STATIC VS. DYNAMIC SHORTCUTS

STATIC SHORTCUTS

- > **GENERIC ACTIONS**
- > **HOW?** 

STATIC SHORTCUTS - BUT HOW?

1. ADD <meta-data> ELEMENT TO LAUNCHER ACTIVITY TO SPECIFY WHERE IT SHOULD FIND SHORTCUT DEFINITION

```
<activity android:name="Main">  
    <intent-filter>  
        <action android:name="android.intent.action.MAIN" />  
        <category android:name="android.intent.category.LAUNCHER" />  
    </intent-filter>  
    <meta-data android:name="android.app.shortcuts"  
              android:resource="@xml/shortcuts" />  
</activity>
```

STATIC SHORTCUTS - BUT HOW?

1. CREATE NEW RESOURCE FILE: res/xml/shortcuts.xml

```
<shortcuts xmlns:android="http://schemas.android.com/apk/res/android">  
  <shortcut  
    android:shortcutId="compose"  
    android:enabled="true"  
    android:icon="@drawable/compose_icon"  
    android:shortcutShortLabel="@string/compose_shortcut_short_label1"  
    android:shortcutLongLabel="@string/compose_shortcut_long_label1"  
    android:shortcutDisabledMessage="@string/compose_disabled_message1">  
    <intent  
      android:action="android.intent.action.VIEW"  
      android:targetPackage="com.example.myapplication"  
      android:targetClass="com.example.myapplication.ComposeActivity" />  
    <!-- If your shortcut is associated with multiple intents, include them  
        here. The last intent in the list determines what the user sees when  
        they launch this shortcut. -->  
    <categories android:name="android.shortcut.conversation" />  
  </shortcut>  
<!-- Specify more shortcuts here. -->  
</shortcuts>
```

DYNAMIC SHORTCUTS

- > **SPECIFIC AND/OR CONTEXT-SENSITIVE ACTIONS**
 - > **HOW?** 

DYNAMIC SHORTCUTS – BUT HOW?

- > **SHORTCUTMANAGER API**
 - > **PUBLISH**
 - > **UPDATE**
 - > **REMOVE**

DYNAMIC SHORTCUTS – BUT HOW? – EXAMPLE

```
val shortcutManager = context.getSystemService(ShortcutManager::class.java)

val shortcut = ShortcutInfo.Builder(context, "id1")
    .setShortLabel("Web site")
    .setLongLabel("Open the web site")
    .setIcon(Icon.createWithResource(context, R.drawable.icon_website))
    .setIntent(Intent(Intent.ACTION_VIEW,
        Uri.parse("https://www.mysite.example.com/")))
    .build()

shortcutManager.dynamicShortcuts = Arrays.asList(shortcut)
```

› **CAREFUL: ONLY AVAILABLE ON API LEVEL 25+**

STATIC VS. DYNAMIC SHORTCUTS

- > STATIC SHORTCUTS
- > DYNAMIC SHORTCUTS
- > WHICH ONE SHOULD I USE?

USAGE TRACKING

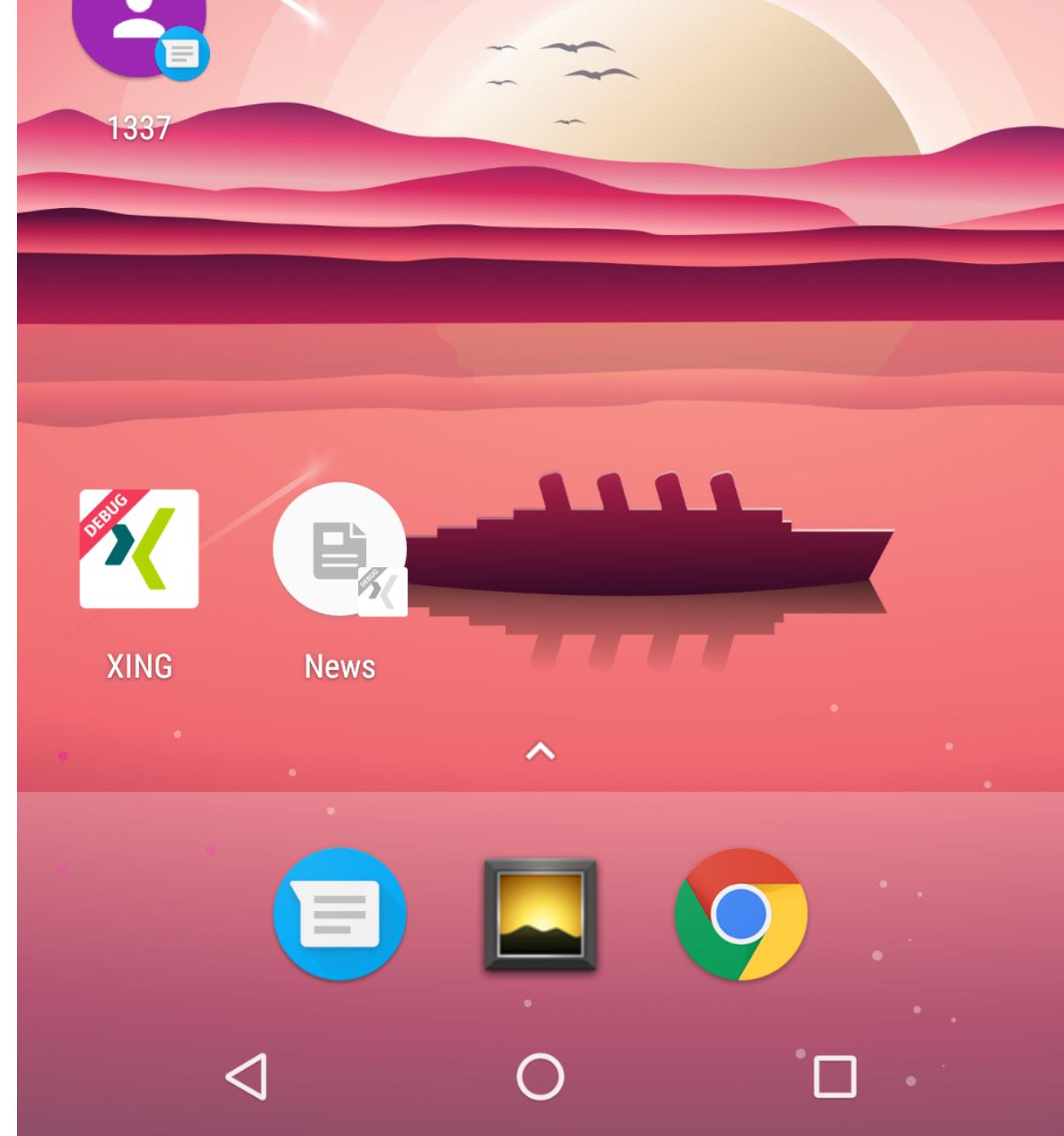
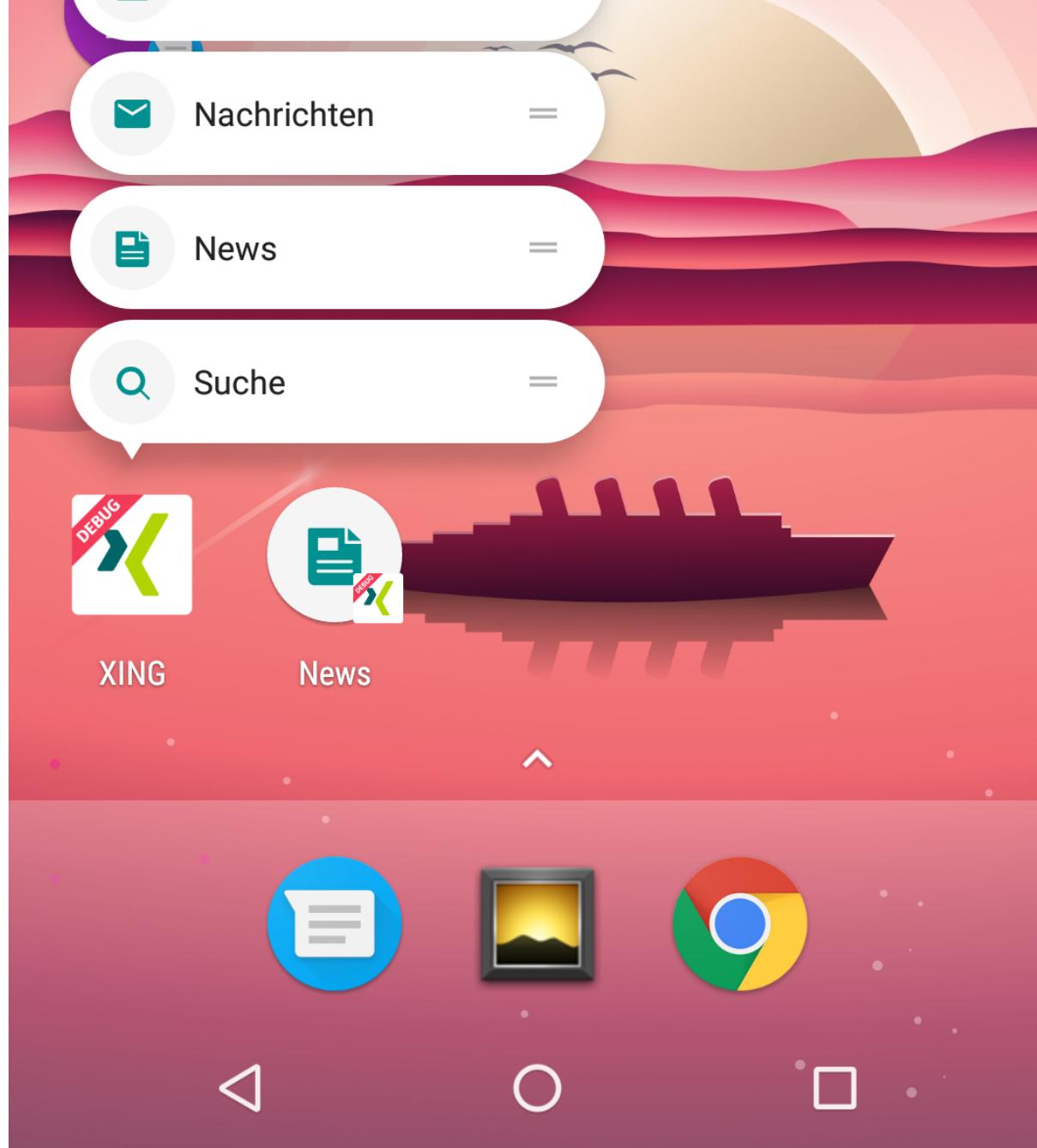
USAGE TRACKING

- > **ONLY FOR DYNAMIC SHORTCUTS**
 - > **USAGE HISTORY**
 - > **SITUATIONAL SHORTCUTS**
- > **USER SELECTS SHORTCUTS**
- > **USER MANUALLY NAVIGATES TO SECTION**
- > **reportShortcutUsed()**

DISABLING SHORTCUTS

DISABLING SHORTCUTS

- > PINNED SHORTCUTS
- > GOAL NOT AVAILABLE
- > disableShortcuts()
- > STATIC SHORTCUTS AUTOMATICALLY DISABLED



BEST PRACTICES

BEST PRACTICES

- > FOLLOW  **DESIGN GUIDELINES**
 - > MAX 4 SHORTCUTS
 - > 10/25 CHARACTERS DESCRIPTION
 - > ACTION USAGE HISTORY
- > UPDATE SHORTCUTS ONLY WHEN MEANING STAYS THE SAME
- > DYNAMIC SHORTCUTS ARE NOT BACKED UP / RESTORED

QUESTIONS?

THANK YOU!

