# **Guide to Graphics & Content for App Deployment**





The app developer building your app requires some information and graphical elements to customize your app. Additionally, the app marketplaces (stores) require graphical elements and other content to describe and show elements of your app. To better understand these needs, look at various apps and how they are represented in the <a href="App Store">App Store</a> and in <a href="Google Play">Google Play</a>. There are also many blogs and other documents on the web that provide information and guidance for app deployment. Links to a few of these are provided throughout this document. We look forward to deploying your apps with you.

#### **App Requirements**

Web Domains for App (Dev. & Prod.)
Folder Location
App Short name
App Icons
Launch/Splash Screen
No Internet Connection Screen

### Marketplace Requirements

App Marketplace Names Marketplace Icons **Supported Languages** Screenshots & Videos Feature Graphic Promo Graphic & Video Description Keywords Type & Category **Content Rating Contact Details** Privacy Policy Copyright Phrase Geographic Distribution Store Review Info **Designed for Families** Designed for Education Consent

Below are the detailed requirements of each element including links for additional guidance.





# **App Graphics & Info Guide** (These elements go into the app itself.)

- **Web Domains for App** The set of apps being created will display a web domain and provide rich features available within apps. Provide your development domain to receive the development version of the app. We also need the test/staging and production domains to be used for the app.
- App Short Names The name you want to show under the app's launch icon. Long names displayed in the marketplaces are explained later in this document. Article 1 Article 2
  - o iOS About 10-12 character maximum to avoid ellipses (...).
  - Android About 9 characters, can try name by renaming a folder on an Android device with different names to see how they fit. A name with a space can wrap to a second line.
- **App Icons** Icons are needed for several purposes including launching the app, for display with notifications, and other locations within both the iOS (Apple) and Android operating systems.
  - iOS For all images and icons, the PNG format is recommended. You should avoid using interlaced PNGs. The standard bit depth for icons and images is 24 bits—that is, 8 bits each for red, green, and blue—plus an 8-bit alpha channel, for a total of 32 bits. You don't need to constrain your palette to web-safe colors. The specifications below may differ from official iOS developer documentation. Use the specifications below unless directed otherwise. <a href="Learn More">Learn More</a>











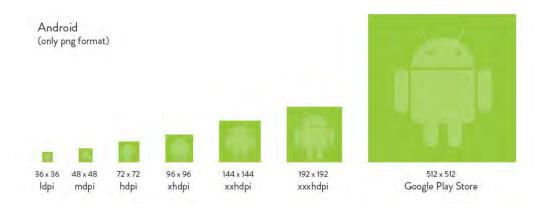


Folder for iOS icons - res\icon\ios

Folder for iOS icons – res/icon/ios					
Asset	filename	iOS 8.0+	iOS 7.0+	iOS 6.1+	
iPhone 6 Plus	icon-60@3x.png	180 x 180			
iPhone & iPod Touch	icon-60.png/		60 x 60	57 x 57	
	icon.png				
iPhone & iPod Touch @2x	icon-60@2x.png/		120 x 120	114 x 114	
	icon@2x.png				
iPad	icon-76.png / icon-		76 x 76	72 x 72	
	72.png				
iPad @2x	icon-76@2x.png/		152 x 152	144 x 144	
	icon-72@2x.png				
Spotlight icon	icon-40.png			40 x 40	
Spotlight icon @2x	icon-40@2x.png			80 x 80	
iPhone Spotlight & Settings	icon-29.png			29 x 29	
iPhone Spotlight & Settings @2x	icon-29@2x.png			58 x 58	
iPad Spotlight & Settings	icon-50.png			50 x 50	
iPad Spotlight & Settings @2x	icon-50@2x.png			100 x 100	
App Store (ios Marketplace)	icon-1024.png			1024 x 1024	

**More Details** 

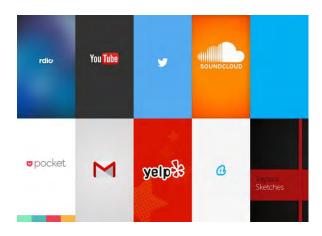
Android – The table below lists the sizes needed in PNG format. Our tools will generate
the other required sizes you may run across in online documentation. The Google Play
Store icon is depicted in the graphic below and is not listed in the table, but is
mentioned again in the "Marketplace Content Gide" section below. Learn More
Details Cheatsheet



Folder for Android icons – res\icon\android

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Specification	Filename	Size	Scale		
Ldpi	ldpi.png	36 x 36	.75x		
mdpi	mdpi.png	48 x 48	1x		
hdpi	hdpi.png	72 x 72	1.5x		
xhdpi	xhdpi.png	96 x 96	2x		
xxhdpi	xxxhdpi.png	144 x 144	3x		
xxxhdpi	xxxhdpi.png	192 x 192	4x		
<b>Google Play Store</b>	GPLAY.png	512 x 512	n/a		

• Launch Images (iOS) and Splash Screens (Android) display immediately upon launching (opening) the app and disappear when the app has become ready to use. Most of the guidance these days points to this being simple and based on the graphic design of the app. See examples below. The same base image can be used for both iOS and Android; however, they must be formatted differently for both devices with different sizes provided as indicated below.



## o iOS <u>Learn More</u>

Folder for iOS launch screens – res\screen\ios

Filename (all lower case)	Width	Height
ipad-landscape.png	1024	768
ipad-portrait.png	768	1024
ipad-2x-landscape.png	2048	1536
ipad-2x-portrait.png	1536	2048
ipadpro-landscape.png	2732	2048
ipadpro-portrait.png	2048	2732
iphone-portrait.png	320	480
iphone-4-portrait.png	640	960
iphone-5-portrait.png	640	1136
iphone-6-portrait.png	750	1334
iphone-6-landscape.png	1334	750
iphone-6+-portrait.png	1242	2208
iphone-6+-landscape.png	2208	1242

### o Android Learn More

Folder for Android splash screens – res\screen\android

Filename (all lower case)	Width	Height
ldpi-portrait.png	320	426
ldpi-landscape.png	426	320
mdpi-portrait.png	320	470
mdpi-landscape.png	470	320
hdpi-portrait.png	480	640
hdpi-landscape.png	640	480
xhdpi-portrait.png	720	960
xhdpi-landscape.png	960	720

# Marketplace Content Guide (These elements become marketplace (store) content.)

### App Store Overview by Apple

Visit the App Store and Google Play for examples of content. Additionally, there are many helpful guides to building marketplace/store content online.

Note: Any text in light gray is handled by the app developer.

- All textual elements can be contained within one text or word processor file. Notate the platform (iOS or Android) and the description for the text element. Ex. Android Short App Description
- File location for text file: Marketplace\textelements.[appropriate extension]
- App Name/Title Article 1 Article 2
  - App Store (Apple)
    - App Name (name in the App Store) 256 character maximum
  - Google Play Store
    - App Name (name in Google Play Store) 30 character maximum
- Primary Language (App Store)
- **Bundle ID** (App Store)
  - App ID Description (see above under App Name)
  - App ID Suffix Explicit App ID (reverse domain name)
  - App Services Select "Push Notifications"
- Version (App Store)
- SKU (App Store)
- Screenshots App Screenshots are displayed within app marketplaces to give prospective
  owners/buyers an idea of how the app looks and functions. Some apps are simple and pure
  screenshots (no added text or graphics) are all that is needed while with other apps it may be a
  good idea to enhance screenshots with additional text. The actual screenshot can be reduced in
  size or eliminated to provide space for text and graphical enhancements.
  - App Store (Apple) Screenshots must be in the JPG or PNG format, and in the RGB color space. App video previews must be in the M4V, MP4, or MOV format and can't exceed 500 MB. Learn More
  - Folder structure: Marketplace\ios\screenshot\[screen size]\[position indicator 1-5]
    - 4.7-inch
      - Count 5 at 750 x 1334 resolution
      - May include one App Preview video
    - 5.5-inch
      - Count 5 at 1242 x 2208 resolution

- May include one App Preview video
- 4-inch
  - Count 5 at 640 x 1136 resolution
  - May include one App Preview video
- 3.5-inch
  - Count 5 at 640 x 960 resolution
  - No capability for App Preview video
- iPad
  - Count 5 at 1536 x 2048 resolution
  - May include one App Preview video
- Google Play Store JPEG or 24-bit PNG (no alpha). Min length for any side: 320px. Max length for any side: 3840px. At least 2 screenshots are required overall. Max 8 screenshots per type. Drag to reorder or to move between types. <u>Learn More</u>
- o Folder structure: Marketplace\android\screenshot\[screen size]\[position indicator 1-5]
  - Phone
  - 7-inch Tablet
  - 10-inch Tablet

### • App Icon

- App Store (Apple)
  - This icon will be used on the App Store and must be in the JPG or PNG format, with a minimum resolution of at least 72 DPI, and in the RGB color space. It must not contain layers or rounded corners. 1024 x 1024 pixels (don't scale up smaller artwork, because this could appear pixelated and blurry).
  - Folder structure: Marketplace\ios\storeicon.png
- Google Play Store
  - 512 x 512, 32-bit PNG (with alpha) Learn More
  - Folder structure: Marketplace\android\storeicon.png
- Feature Graphic (Google Play Store )
  - 1024 w x 500 h, JPG or 24-bit PNG (no alpha)
    - Folder structure: Marketplace\android\featuregraphic.png
- Promo Graphic (Google Play Store )
  - o 180 w x 120 h, JPG or 24-bit PNG (no alpha)
    - Folder structure: Marketplace\android\promographic.png

- Promo Video (Google Play Store optional)
  - YouTube Video URL
- Short App Description (Google Play Store)
  - o 80 character maximum
  - All textual elements can be contained within one text or word processor file. Note the platform (iOS or Android) and the description for the text element. Ex. Android Short App Description.
  - File location for text file: Marketplace\textelements.[appropriate extension]
- Long App Description (App Store and Google Play Store)
  - 4000 characters max
- **Keywords** 100 characters (App Store) <u>Learn More</u>
- Application Type Application or Game (Google Play Store ) Learn More
- Application Category Fixed list, subsets of Application Type (Google Play Store )
- Content Rating
  - App Store (Apple) Important: Apple rejects apps that include material that Apple finds obscene, pornographic, offensive, or defamatory.
    - 4+ Apps in this category contain no objectionable material.
    - 9+ Apps in this category may contain instances of the following content that may not be suitable for children under the age of 9:
      - Infrequent or mild occurrences of realistic violence
      - Infrequent or mild profanity
      - Infrequent or mild mature, suggestive, or horror-themed content
      - Frequent or intense cartoon or fantasy violence
    - 9+ Apps in this category may contain instances of the following content that may not be suitable for children under the age of 9:
      - Infrequent or mild occurrences of realistic violence
      - Infrequent or mild profanity
      - Infrequent or mild mature, suggestive, or horror-themed content
      - Frequent or intense cartoon or fantasy violence
    - 17+ Apps in this category may contain instances of the following content that may not be suitable for children under the age of 17:
      - Unrestricted web access, such as with an embedded browser
      - Gambling or contests

- Frequent or intense mature or suggestive content
- Frequent or intense medical or treatment-focused content
- Frequent or intense references to alcohol, tobacco, or drug use
- Frequent or intense sexual content or nudity

## Google Play Store

 Questionnaire determines ratings for multiple countries. This questionnaire is too lengthy to publish here. We will plan a time to walk through the questionnaire together over the phone or in person.

#### Contact Details

- Website URL optional (Google Play Store)
- Email address public (Google Play Store)
- Phone optional (Google Play Store)
- Support URL public (App Store)
- Marketing URL public (App Store)

### Privacy Policy URL

- App Store (Apple) A URL that links to your organization's privacy policy. Privacy policies
  are required for apps that are Made for Kids or offer auto-renewable In-App Purchases
  or free subscriptions. They are also required for apps with account registration, apps
  that access a user's existing account, or as otherwise required by law. Privacy policies
  are recommended for apps that collect user- or device-related data.
- o Google Play Store Learn More
- Copyright phrase (App Store (Apple) )
  - o Example: Copyright 2010-2015 CompanyName, Inc., All Rights Reserved
- **Geographic Distribution** In which countries will the app be available consider language translation and other cultural aspects.
  - o App Store (Apple) Routing App Coverage File -optional
    - Specify the geographic regions supported by your app. The file must be in the .geojson format and can only contain one multipolygon elements.
  - Google Play Store Check box list of countries. Some countries have additional options.
- App Review Info This provides information for Apple's reviewer staff to review/test the app.
   A demo login account is required if the app requires login to access all content and/or functionality. You should pre-establish a demo user for them to use. (App Store)

- Demo Account (for apps with user accounts)
  - Username(s)
  - Password(s)
- Notes (4,000 character max) Provide any instruction or other information Apple's review staff may need to have to better understand and user the app (website navigation and functionality).
- Opt-in to Designed for Families (Google Play Store) Learn More
- Distribute your app through Google Play for Education <u>Learn more</u>
- **Consent** (Google Play Store)
  - Marketing Opt-out (optional) Do not promote my application except in Google Play and in any Google-owned online or mobile properties. I understand that any changes to this preference may take sixty days to take effect.
  - Content Guidelines This application meets <u>Google Play Store Content Guidelines</u>.
     Please check out these <u>tips on how to create policy compliant app descriptions</u> to avoid some common reasons for app suspension.
  - US Export Laws I acknowledge that my software application may be subject to United States export laws, regardless of my location or nationality. I agree that I have complied with all such laws, including any requirements for software with encryption functions. I hereby certify that my application is authorized for export from the United States under these laws. Learn More