

Screen Display Settings for iOS Devices

Presented by Dallon Au

Part of ***Screen Display Settings***

Hi, I'm Dallon, I am an IT trainer at Guide Dogs Singapore. Today, I will walk you through some of the built-in accessibility features found on iOS to aid persons with low vision.

Firstly, I will be sharing on how to configure some of the screen display settings, such as 'Invert Colours', 'High Contrast', and 'Adjusting of Font Size'. Then I'll explain some of the settings and shortcuts for ease of access, and finally will cover a magnification tool called 'Zoom'.

Locate 'Settings'

To start off, let's go to 'Settings'. There are two different ways which you can locate 'Settings'. The first way is to locate it manually on your 'Home' screen. The second way to locate 'Settings' is to use this feature called 'Spotlight'. 'Spotlight' is a search feature, that allows you to search out anything on your phone. Do note that if you desire to use this

method, you must be familiar with the keyboard layout.

To use 'Spotlight', ensure that you are on your 'Home Screen', then do a one-finger swipe down, and a keyboard should appear.

[Demo: Dallon places one finger on the 'Home Screen' and swipes down, then a keyboard appears at the bottom of the screen.]

Type in the application that you want, in this case, 'Settings', once you are done, press the 'Go' button. To make this simple, I'll go to 'Settings' manually.

[Demo: Dallon goes back to the 'Home Screen' and locates 'Settings' manually.]

Display and Brightness

So now we are in 'Settings', let's scroll down a little and locate 'Display and Brightness'.

[Demo: Dallon scrolls down, then selects and enters into the 'Display and Brightness' page.]

In 'Display and Brightness', you can adjust the different themes, 'Dark Theme' and 'Light Theme'.

You can adjust your text size, and you can also adjust the different layouts, whether is Zoom, or default. And you can also perform many other things, like, adjusting of brightness.

Notice that my phone is currently in 'Dark Theme'. So in 'Dark Theme', you notice that the background is black in colour, and, that the text is white in colour. Now let's switch it to 'Light Theme', and see the difference.

[Demo: Dallon presses the icon labeled with the word 'Light' and switches from 'Dark Theme' to 'Light Theme'.]

So notice that now the background is white in colour and the text is black in colour. When you adjust these themes, it will affect all the native apps and some supported apps like WhatsApp. Let's just switch it back to dark theme for the demonstration.

[Demo: Dallon presses the icon labeled with the word 'Dark' and switches from 'Light Theme' to 'Dark Theme'.]

Zoomed Layout

Ok, now let's move on to look at the different display layouts that our phone can offer. So let's just scroll down from here, look for 'Display Zoom', tap on it.

[Demo: Dallon locates 'Display Zoom' by scrolling down the page, then tapping on it to enter the page.]

Over here you can see two different layouts, 'Larger Text', and 'Default'. Notice that my phone is currently set to 'Default'. So in 'Default', your icons are generally smaller, your text are a little bit smaller as well. Let's click on 'Larger Text' and see what happens. So just tap on it,

[Demo: Dallon taps on the 'Larger Text' icon.]

then tap on 'Set' in the top right-hand corner, and then tap on 'Use Zoom'.

[Demo: Dallon taps 'Set' on the top right, followed by tapping 'Use Zoom' at the bottom of the phone screen.]

Notice that you will do a temporary restart, and your text will be a little bit larger. So if you go to our 'Home' screen,

[Demo: Dallan uses one finger to swipe up from the bottom of the phone screen and goes back to the 'Home' screen.]

you can see that our icons are a little bit bigger than what it was.

Visual Enhancement Features

Ok, let's move on to explore other visual enhancement features which your phone can provide. To find these features, they are located at the 'Accessibility Settings' on the 'Settings' app. We will have to now head back to the main page of 'Settings'. In this case, we have to locate the 'Back' button, which is at the top left-hand corner right below the status bar.

[Demo: Dallan locates and taps on the 'Back' button at the top left-hand corner.]

Press it one more time.

[Demo, Dallan presses the 'Back' button one more time and goes back to the 'Settings' page.]

And scroll down a little to look for 'Accessibility'.

[Demo: Dallon scrolls down to locate 'Accessibility', and taps on it to enter the page.]

Over here, we can find various accessibility features to help aid different groups of persons with disabilities.

Display and Text Size

Let's start off with looking at the 'Display and Text Size' section. Generally, this is the place where you can configure some of your vision enhancement features to further enhance the display settings to fit your visual needs. Tap on 'Display and Text Size'.

[Demo: Dallon taps on 'Display and Text Size'.]

On the very top, you'll see 'Bold Text'. When you turn on this toggle, your text will be bolded, and it may be easier for you to see as it will stand out more. So let's turn on bold text and see how it looks like.

[Demo: Dallon taps on the 'Bold Text' toggle, and text on the screen becomes bolded.]

To further increase the text size on your display, you can turn on 'Larger Text'. You should turn on 'Larger Text' if the max size on the 'Display and Brightness'

settings is not large enough for you. Okay, now let's tap on 'Larger Text'.

[Demo: Dallan taps on 'Larger Text' and enters the page to adjust text size.]

Over here we can adjust the text size, but notice that my slider is already maximum and I still cannot really see the text very well. So to further increase our text size, we have to turn on the 'Larger Accessibility Sizes' toggle.

[Demo: Dallan taps on the 'Larger Accessibility Sizes' toggle.]

When it's turned on, I can drag the slider further to the right.

[Demo: Dallan drags the slider further to the right, text size on the screen increases.]

Increase Contrast

Another accessibility feature which I would like to bring to your attention is 'Increase Contrast'. This could be found under the 'Display and Text Size' section in 'Accessibility'. So let's just scroll down.

[Demo: Dallon scrolls down the page of 'Display and Text Size' and locates 'Increase Contrast', then turns on the toggle.]

And if we turn on 'Increase Contrasts', we notice that the text is sharper as it increases the contrast between the foreground and the background.

Invert Colours

In some applications where 'Dark Theme' is not supported, we can use this feature called 'Invert Colours'. This feature will help you turn a lighter background to a darker background and a darker text to a lighter text. This will work best with applications with a white background and dark text.

Two different settings for 'Invert Colours'. Firstly, we'll look at 'Smart Invert'. It will indeed invert the colour of the display, except for things like images, some media content, and some apps with dark colour styles.

The second type is 'Classic Invert'. 'Classic Invert' will just invert the entire display.

Today for 'Smart Invert', we will use a website for demonstration. So this website has a white

background, a black text, and an image. Now let's turn on 'Smart Invert'.

[Demo: Dallon taps on the toggle of 'Smart Invert', the website background changes to a darker colour.]

We can see that the colour of the website has changed. We see the background to be dark in colour and the text to be light in colour, and that the image has not changed.

Now let's turn off 'Smart Invert' and turn on 'Classic Invert'.

[Demo: Dallon taps on the toggle of 'Smart Invert' again to turn it off, then, taps on the toggle of 'Classic Invert' to turn it on, and the screen colour changes.]

We can see that the whole entire display has been inverted in the sense where we see a light background and dark text.

Magnification Tool - Zoom

The next feature we looking at is a magnification feature called 'Zoom'. This feature helps you to magnify items on your screen. For this

demonstration, I have set the text size back to default so that you can see the full effect of 'Zoom'.

In today's video, I'll cover the basic features of 'Zoom'. To locate 'Zoom', go to 'Settings', 'Accessibility', and 'Zoom'. Right beside the text, called 'Zoom', you'll find a toggle which can help you to turn it on and off. To turn it on, simply just tap on it.

[Demo: Dallan taps on the toggle of 'Zoom', and items on the screen are magnified.]

Notice that once it's on, your screen will immediately be magnified.

To use 'Zoom', we're required to learn a few gestures. The first gesture that we'll be covering, is a three-fingers double-tap gesture. This is a rapid gesture, which means you cannot stop between the gesture. Simply take three fingers and double-tap on the screen.

[Demo: Dallan performs a three-fingers double-tap gesture on the screen, and items on the screen zoomed out.]

Notice that I have zoomed out. If I repeat the gesture again, it will zoom in like a magnification screen again. Three fingers, double-tap.

[Demo: Dallon performs a three-fingers double-tap gesture on the screen again, items on the screen magnified.]

Once your screen is magnified, to move the magnification window to review more information on your screen, simply take three fingers, tap on the screen, and drag it around to review the information that you want. So I'll take three fingers, tap on the screen, and move around.

[Demo: Dallon uses three fingers to tap on the screen and move around, items on the screen move towards the left and review more information on the right.]

I'm moving toward the left so that I can review information on the right.

[Demo: Dallon uses three fingers to tap on the screen and moves toward the right and review more information on the left.]

This is the other direction. Similarly, to review more information at the top part of the screen, we will take three fingers and tap on the screen, and then move it downwards.

[Demo: Dallon uses three fingers to tap on the screen and move downwards to review more information on the top part of the screen.]

To review information at the bottom part of the magnification window, we will take three fingers, tap on the screen and move it upwards.

[Demo: Dallon uses three fingers to tap on the screen and move upwards to review more information on the bottom part of the screen.]

Finally, we will look at how to change the size of the magnification window. To do this, we'll use a three-fingers double-tap gesture, but instead of letting go, we will direct upwards to zoom in and drag downwards to zoom out. Take three fingers, double-tap on the screen, and drag upwards immediately to zoom in.

[Demo: Dallan performs a three -fingers double tap gesture without letting go of his fingers and drags upwards immediately to zoom in.]

And to zoom the magnification window back down, same thing, three fingers, double tap and drag downwards immediately.

[Demo: Dallan performs a three -fingers double-tap gesture without letting go of his fingers and drags downwards immediately to zoom out.]

Accessibility Shortcut

Lastly, we'll take a look at how we can enable and disable some of the frequently used accessibility features with the use of a shortcut. To go to 'Accessibility Shortcut' we'll go to 'Settings', 'Accessibility', and then 'Accessibility Shortcut'.

[Demo: Dallan selects 'Accessibility Shortcut' under the page of 'Accessibility'.]

Over here we can select some of the features that we want to be triggered by the shortcut. To activate the shortcut simply press the side button three times rapidly.

[Demo: Dallan scrolls down the page of 'Accessibility Shortcut'.]

Notice that the only feature that's been selected is 'VoiceOver'. So now if I were to trigger a shortcut, it will turn on 'VoiceOver'. I'll press the side button three times rapidly.

[Demo: Dallan presses the side button three times rapidly, then the phone reads out, 'VoiceOver on'.]

So 'VoiceOver' is now turned on. If I do the same, press the shortcut again, it'll turn off 'VoiceOver'.

[Demo: Dallan presses the side button again three times rapidly, then the phone reads out, 'VoiceOver off'.]

Let's add another accessibility feature to the list of our shortcuts. Let's select 'Classic Invert'.

[Demo: Dallan scrolls down the page under 'Accessibility Shortcut', locates and selects 'Classic Invert'.]

Notice that there will be a tick right beside it. So now if I were to press the side button, press three times rapidly, you'll notice a menu will pop up.

[Demo: Dallan presses the side button three times rapidly, then a menu pops up on the screen.]

Now if you want to activate the feature that we want, for example, 'Classic Invert', we just have to tap on it. Now to deactivate it, same thing, press the 'Accessibility Shortcut' again. So three times rapidly on the side button.

[Demo: Dallan presses the side button again three times rapidly, then a menu pops up on the screen.]

Notice that the menu pop-up, tap on the thing you want to deactivate, and it will deactivate.

[Demo: Dallan selects 'Classic Invert' and deactivates the shortcut.]

So we've looked at how to configure some of the visual enhancement features to fit your needs, explain some of the settings and shortcuts for ease of access. Finally, we've covered a tool called 'Zoom', which is a tool to magnify items on your screen. I hope you have

found this video to be useful. Once again I'm Dallan. Thanks for listening and I'll see you next time.

If you would like to learn more about operating your phone, you can arrange an appointment with our IT trainers at Guide Dogs Singapore by calling 6339 7900, or email us at IT@guidedogs.org.sg.