

iOS & Android Accessibility Settings

1. Display & Text Size Vision

[Test Video](#)

Target users	Disability level	Description
<ul style="list-style-type: none">• Severe Vision Disability• Mild Vision Disability• Normal Users	★ to ★★★★★	<p>Makes content readable, clearly by display or text settings</p> <p>Features:</p> <ul style="list-style-type: none">- Bold text- Larger Text- Button Shapes- On/Off Labels- Reduce Transparency- Increase Contrast- Difference without Color- Smart Invert- Classic Invert- Color Filters- Reduce White Points- Auto-Brightness

[Suggestions:](#)

Blurry of vision disability (short-sighted or presbyopia) :
Improve by display & text size settings

Color Blindness :
Improve by color filters, it can be used to different colors by users who are color blind

Help to reading:
A function that inverts all colors on the display for users with vision impairments that either has trouble reading the normal user interface or experience discomfort when

staring at the default light color scheme for prolonged periods of time.

Demand level: ★★★★★

2. VoiceOver **Vision**

[Test Video](#)

it will voiceover while you tap an item

Target users	Disability level	Description
<ul style="list-style-type: none">• Blind Person• Severe Vision Disability	★★★★ to ★★★★★★	<p>Definition:</p> <p>The human is easy to read images than texts, so it also applies to presbyopia or bad vision problems</p> <p>Features:</p> <ul style="list-style-type: none">- VoiceOver- Speaking rate- Other customize setting

[Suggestions:](#)

- Have blurry problems of vision
- It's more helpful to the elders (65+)

Help them to understand the function of an item

Demand level: ★★★

3. Zoom **Vision**

[Test Video](#)
[Case Study](#)

Use three-fingers gesture to zoom or move the content

Target users	Disability level	Description
<ul style="list-style-type: none">• Severe Vision Disability• Mild Vision Disability• General Users	★ to ★★★★★	Definition: The user can switch zoom in / out to see more details for understanding Features: <ul style="list-style-type: none">- Zoom- Follow Focus- Smart typing- Keyboard Shortcut- Zoom Controller- Zoom Region- Zoom Filter

[Suggestions:](#)

- Read clearly for vision disability users
- If we don't support touch to zooming, it can be an option.

Demand level: ★

4. Magnifier Vision

[Test Video](#)

Target users	Disability level	Description
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<ul style="list-style-type: none"> • Mild Vision Disability • General Users 	★ to ★★★	Use your device camera to magnify your surroundings.
<p>Suggestions:</p> <p>Currently, we don't have a camera on the frame.</p> <p>Demand level: ★</p>		

5. Motion Vision		
<p>Test Video</p> <p>Reduce the motion effects of the User Interface</p>		
Target users	Disability level	Description
<ul style="list-style-type: none"> • Mild Vision Disability • General Users 	★ to ★★	<p>Definition:</p> <p>To avoid the distraction from users or people who have focus disability</p> <p>Features:</p> <ul style="list-style-type: none"> - Reduce motion - Prefer Cross-fade transitions - Auto-play message effects - Auto-play video preview - Limit frame rate
<p>Suggestions:</p> <p>Currently, we haven't heavy motion effects on the frame.</p> <p>Demand level: ★</p>		

6. Spoken Content Vision

[Test Video](#)
[Case Study](#)

Speak the selected content

Target users	Disability level	Description
<ul style="list-style-type: none">• Severe Vision Disability• Mild Vision Disability• General Users	★ to ★★★★★	Definition: To help people to understand the context, like captions or other text content.

[Suggestions:](#)

It works through selected sentences or tap to speak. And suitable for users who have a blurry disability of vision (like: Presbyopia, Elders)

We don't have much information needed to use it. Even caption or other descriptions.

Demand level: ★★

7. Audio Description Vision

[Test Video](#)
[Case Study](#)

Play audio description automatically

Target users	Disability level	Description
<ul style="list-style-type: none">• Blind Person• Severe Vision Disability	★★★★ to ★★★★★	Definition: Can play audio description automatically if apps or content was supported. Features: - Audio Descriptions

Suggestions:

No needs to understand the context through audio description. No matter what it is. I.e: Netflix Movie, User Interface .. etc

Need to add the audio description into content, it's not suitable with our content contributors.

Demand level: ★

1. Hearing Devices Hearing

[Test Video](#)

Connect the hearing devices by bluetooth

Target users	Disability level	Description
<ul style="list-style-type: none">• Severe Hearing Disability• Mild Hearing Disability	★★ to ★★★★★	Definition: To help people who have hearing disability Features: - Pair hearing devices - Hearing aid compatibility

Suggestions:

No needs to connect the earphone with the frame

Demand level: ★★

2. Audio/Visual **Hearing**

[Test Video](#)

Control the left & right speakers to help users who have hearing disability

Target users	Disability level	Description
<ul style="list-style-type: none">• Severe Hearing Disability• Mild Hearing Disability	★★ to ★★★★★	<p>Definition: To help people who have hearing disability</p> <p>Features:</p> <ul style="list-style-type: none">- Mono audio- Balance (Left/Right Speaker)- Led flash for alert- Flash on Silent

Suggestions:

- No needs to connect speaker or earphone with the frame
- No needs to flash led light for notification

Demand level: ★★

3. Subtitles & Captioning **Hearing**

[Test Video](#)

When available, prefer closed captioning or subtitles for the deaf and hard of hearing.

Target users	Disability level	Description
<ul style="list-style-type: none">• Deaf• Severe Hearing Disability	★★ to ★★★★★	Definition: To help people who have hearing disability Features: <ul style="list-style-type: none">- Closed Captions + SDH- Subtitle Style

[Suggestions:](#)

No strong needs to understand the context through subtitles.

Need to add the subtitle information into content, it's not suitable with our content contributors.

Demand level: ★★

1. Touch **Mobility**

[Test Video](#)

Target users	Disability level	Description
<ul style="list-style-type: none">• Mild Mobility Disability• Normal Users	★ to ★★	Definition: Touch screen settings Features: <ul style="list-style-type: none">- AssistiveTouch- Reachability- 3D & Haptic Touch- Touch Accommodations

		<ul style="list-style-type: none"> - Shake to Undo - Vibration - Call Audio Routing
<p>Suggestions:</p> <p>Some regular touching screen settings.</p> <p>Demand level: ★★★</p>		

2. Switch Control Mobility		
<p>Test Video Case Study</p> <p>Use extension devices to help users to control it.</p>		
Target users	Disability level	Description
<ul style="list-style-type: none"> • Physical Disability • Severe Mobility Disability 	★★★ to ★★★★★	Definition: To help people who have severe mobility disabilities that can use extension devices to control the computer.
<p>Suggestions:</p> <p>- No needs to connect to extension devices to control the frame.</p> <p>Demand level: ★</p>		

3. Voice Control Mobility

[Test Video](#)
[Case Study](#)

Target users	Disability level	Description
<ul style="list-style-type: none">• Physical Disability• Severe Mobility Disability• Mild Mobility Disability• Normal Users	★ to ★★★★★	<p>Definition: Allow to use voice to control the device.</p> <p>Features:</p> <ul style="list-style-type: none">- Voice Control- Language- Customise Commands- Vocabulary- Detail settings

[Suggestions:](#)

Currently, we can't support voice control. Otherwise, we don't have many features to interact with voice. It could be discussed further.

Demand level: ★★

References:

<https://www.apple.com/accessibility/>

<https://www.microsoft.com/design/inclusive/>

<https://www.android.com/accessibility/>

<https://www.android.com/android-10/>

https://www.youtube.com/watch?v=Y_8ZIUP2C5o

Accessibility Hit-List

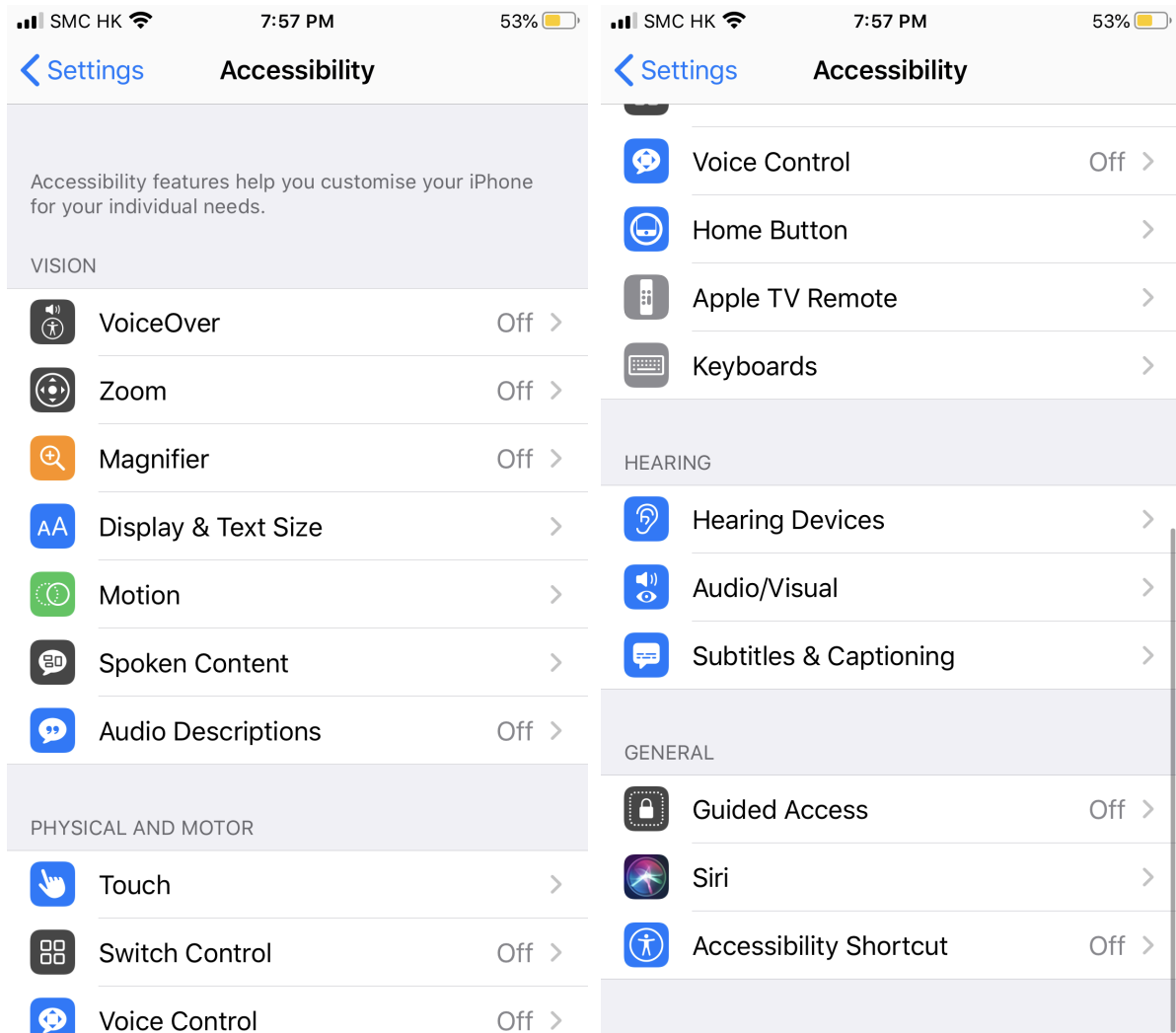
iOS	Android	Yes	No	TBC
VoiceOver Vision				
VoiceOver	TalkBack			•
Speaking rate			•	
Customize setting				•
Zoom Vision				
Zoom	Magnification			•
Follow Focus				•
Smart typing				•
Keyboard Shortcut				•
Zoom Controller				•
Zoom Region				•
Zoom Filter				•
Magnifier Vision				
Magnifier				•
Auto-Adjust Exposure				•
Display & Text Size Vision				
Bold text		•		
Larger Text	Font size	•		

	Display size			•
Button Shapes			•	
On/Off Labels			•	
Reduce Transparency			•	
Increase Contrast	High Contrast text	•		
Difference without Color			•	
Smart Invert	Dark theme			•
Classic Invert	Colour inversion		•	
Color Filters	Colour correction	•		
Reduce White Points				•
Auto-Brightness				•
	Large mouse cursor			•
Motion Vision				
Reduce motion	Remove animations		•	
Prefer Cross-fade transitions			•	
Auto-play message effects			•	
Auto-play video preview			•	
Limit frame rate			•	
Spoken Content Vision				
Speak Selection	Select to speak			•
Speak Screen				•
Typing Feedback			•	
Voices	Text-to-speech output - Detail settings of the select to speak		•	
Speaking Rate			•	
Pronunciations			•	

Audio Descriptions Vision				
Audio Descriptions				•
Hearing Devices Hearing				
Pair hearing devices			•	
Hearing aid compatibility			•	
Audio/Visual Hearing				
	Sound Amplifier			•
Mono audio	Mono audio			•
Balance	Audio balance			•
Led flash for alert			•	
Flash on Silent			•	
	Live Transcribe - Capture speech from the device's microphone and displays it as text		•	
Subtitle & Captioning Hearing				
Closed Captions + SDH	Live Caption - Automatically caption media Link		•	
Subtitle Style	Caption preferences		•	
Mobility				
Touch Mobility				
AssistiveTouch	Accessibility Menu - Control phone via large menu		•	
Reachability			•	
3D & Haptic Touch			•	
Touch Accommodations	Touch & hold delay	•		

Shake to Undo			•	
Vibration	Vibration and haptic strength		•	
Call Audio Routing			•	
Switch Control Mobility	Switch Access		•	
Voice Control Mobility	Google Assistant		•	
Home Button Mobility			•	
Apple TV Remote Mobility			•	
Keyboards Mobility			•	
	Dwell timing		•	
	Power button ends call		•	
	Auto-rotate screen	•		
	Time to take action (Accessibility time-out)		•	

iOS



Android 10

