



Accessible devices for people with a visual impairment



Tested devices

- The selected devices have been tested by an independent panel of people with a disability, coordinated by the non-profit association Passe-Muraille.
- This evaluation is based on predefined accessibility criteria taking into account the specific needs of the majority of people belonging to the same disability category.
- **We therefore do not guarantee that these devices can be optimally used by all people recognized as belonging to the disability category concerned.**
- This catalog will be updated regularly.





Advantages of the devices

We recommend these devices to people with a visual impairment because of their programmable keys, vibrate function, and the possibility to assign a ringtone to a contact (caller identification through the ringtone).

It is important to note that all the devices running Android 4.0.4 Ice Cream Sandwich have the following adaptations as standard:

- An accessibility menu.
- An advanced voice synthesis and voice command system for calling, texting, etc. Voice synthesis is available in French and English by default. For Dutch, an appropriate module should be downloaded: [SVOX LENA DUTCH](#). However, with Android 5.0, the Dutch version is available by default in most devices.
- A practical screen reader (Talkback) which can be used directly for calling, texting, etc. but not for reading web pages or with certain incompatible applications. However, with Android 5.1, the screen reader can read websites and most applications.
- An explore by touch screen system with effective spoken feedback describing all the standard features of the device.
- The drop-down menu can be blocked: this enables better scrolling control.
- Tactile navigation requires the use of two fingers for scrolling and a double tap for selecting.

1. Activation of screen reader: Settings → Accessibility → Activate “Talkback”
2. Activation of tactile navigation: Settings → Accessibility → Activate “Tactile navigation”

It should be noted that the most recent, and most complete, versions of Android OS integrate the activation of tactile navigation when the device is switched on for the first time.



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Accessible mobile phones

We recommend these devices to people with a visual impairment because of their programmable keys, vibra alert function, and the possibility to assign a ringtone to a contact (caller identification through the ringtone).






Very good



Good



Average

Assessment	Template	Comments	Possible adaptation
Visually impaired 	IPHONE 7 IOS 14 	<ul style="list-style-type: none"> • Siri + Voice Control • Spoken content (VoiceOver screen reader) • Font size up to very large • Contrast and color settings • Zoom • Magnifier • Smart invert (reverses the colors on the display, except for images) 	
Blind 			



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Very good



Good



Average

Evaluation	Model	Comments	Possible adaptation
<p>Visually impaired</p> 	<p>iPhone 7 plus (IOS 10)</p> 	<ul style="list-style-type: none"> • Fast and easy configuration of the Accessibility mode via iTunes on a computer. • Very complete accessibility menu • Magnifier function. • Effective voice command. • Image quality +++ • Large screen. • Adjustment of brightness by reducing white points. 	<p>Possibility to download and configure screen-reading, voice-synthesis and voice-command software in Dutch via App Store.</p> <p>An adapted stylus can make it easier to operate the device.</p> 
<p>Blind</p> 		<ul style="list-style-type: none"> • Fast and easy configuration of the Accessibility mode via iTunes on a computer. • Very complete accessibility menu. • Effective voice command. • Voice Over: voice synthesis comes as standard (it not only reads all the menus and apps, but also web content). • NB: Voice Over requires the user to have prior knowledge of how it works. • Supports braille displays. 	



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Assessment	Model	Comments	Possible adaptation
Visually impaired 	CrossCall Trekker X4 	<ul style="list-style-type: none"> • Basic Google speech synthesis. • No voice commands for the device. • Enlargement possible but limited to fonts and display elements. • For the keyboard, adjustment of contrast not very interesting. Possibility to choose from 3 keyboard sizes. Choice of background color. • Color inversion and an alternative color mode for the color blind. • Zoom. NO magnifier. • Adjustment of display size. 	
Blind 			



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Good



Average

Assessment	Model	Comments	Possible adaptation
Visually impaired 	Doro 8035 	<ul style="list-style-type: none">Talkback	
Blind 			



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Very good



Good



Average

Assessment	Model	Comments	Possible adaptation
Visually impaired 	Fairphone 3 	<ul style="list-style-type: none">• Designed in such a way that its parts are replaceable• TalkBack, select to speak, zoom, brightness adjustment• The largest font size is still fairly average• 3 choices of color corrections + color inversion• Ok Google• No magnifier	
Blind 			



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Good



Average

Evaluation	Model	Comments	Possible adaptation
Visually impaired 	HUAWEI Mate 10 PRO 	<ul style="list-style-type: none">Accessibility menu seems complete but has certain limitations (inexistent or incoherent functions)	
Blind 			



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Good



Average

Assessment	Model	Comments	Possible adaptation
Visually impaired 	HUAWEI P20 PRO 	<ul style="list-style-type: none">Accessibility menu relatively complete, but missing certain options such as font size.	
Blind			



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Average

Evaluation	Model	Comments	Possible adaptation
Visually impaired 	LG G6 	<ul style="list-style-type: none"> All features of the device can be enlarged, including the apps Possibility of putting text in bold 	Possibility of downloading and configuring screen-reading, voice-synthesis and voice-command software in Dutch via App Store. An adapted stylus can make it easier to operate the device 
Blind -		<ul style="list-style-type: none"> Talkback did not work in the device tested (to be checked) 	



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Good



Average

Assessment	Model	Comments	Possible adaptation
<p>Visually impaired</p> 	<p>Nokia 1</p> 	<ul style="list-style-type: none"> • Low-cost device with some interesting accessibility options, to be assessed by the future buyer. • Voice synthesis but no screen reader. • Rather limited options. • Most of the applications have to be downloaded and installed before use. 	
<p>Blind</p>			



Accessible mobile phones

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Average

Evaluation	Model	Comments	Possible adaptation
<p>Visually impaired</p> 	<p>Nokia 4.2</p> 	<ul style="list-style-type: none"> • Talkback • ("Select to Speak") • The largest size is still relatively small • The zoom will be indispensable for some users • Possibility of changing the theme of the phone (bright - dark) but unconvincing • "Accessibility" short-cut • Not very convincing contrast adjustment • Zoom: Either you opt for "Enlarge by pressing 3 times" - Or you opt for "If magnifier is activated, press the accessibility button" 	
<p>Blind</p> 			



Accessible mobile phones

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Very good



Good



Average

Evaluation	Model	Comments	Possible adaptation
Visually impaired 	Nokia 5 	<ul style="list-style-type: none">• Relatively complicated menu• Lightweight and not very convincing enlargement of characters• Low quality screen	An adapted stylus can make it easier to operate the device 
Blind			



Accessible mobile phones

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Very good



Good



Average

Assessment	Template	Comments	Possible adaptation
Visually impaired 	Nokia 8.3 	<ul style="list-style-type: none">• TalkBack• Adjustable font size, but the largest size is still small• Adjustable display size• High contrast text mode, but the difference is hardly visible• Zoom	
Blind 			



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Good



Average

Assessment	Model	Comments	Possible adaptation
Visually impaired	OnePlus 7T Pro 	<ul style="list-style-type: none"> Regular zoom and temporary zoom Talk back The largest font is still relatively small Display size adjustment is inadequate 3 types of style: standard, colored buttons, color inversion 	OnePlus 7T Pro
Blind			



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Average

Assessment	Model	Comments	Possible adaptation
Visually impaired 	OnePlus 8 Pro 	<ul style="list-style-type: none"> • Menu only for visual accessibility: Enlarge - Display - Select - Speak - TalkBack • NB: the largest font is still quite small. • Customization: "accent colors" ==> button colors - Color inversion (see in tonality: - Normal color - Light (= all buttons have the same color) - Dark = color inversion + Color correction menu (3 choices) 	
Blind 			



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Very good



Good



Average

Assessment	Model	Comments	Possible adaptation
Visually impaired 	OPPO Find X2 Pro 	<ul style="list-style-type: none"> • Talkback • Good font size with enlargement • Possibility of programming gestures on switched-off screen • Color inversion • Choice of color adapted to the color blind • Choice of touch & hold delay 	
Blind 			



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Very good



Good



Average

Assessment	Template	Comments	Possible adaptation
Visually impaired 	OPPO Reno 4 Pro 5G 	<ul style="list-style-type: none"> • Good font size with enlargement • Possibility of programming gestures on switched-off screen • The largest font size is still small • Color inversion • Choice of color adapted to the color blind • Choice of touch and hold delay • Complex menu structure 	
Blind 			



Accessible mobile phones

We recommend these devices to people with a visual impairment because of their programmable keys, vibra alert function, and the possibility to assign a ringtone to a contact (caller identification through the ringtone).







Very good



Good



Average

Evaluation	Model	Comments	Possible adaptation
<p>Visually impaired</p> 	<p>SAMSUNG A5</p> 	<ul style="list-style-type: none"> • Magnifying window which enlarges the screen content (3 magnifying sizes and zoom adjustment) • Not all accessibility options offered are compatible with each other and require a choice to be made • Possibility of configuring direct access to a selection of accessibility options 	<p>An adapted stylus can make it easier to operate the device</p> 
<p>Blind</p> 			



Accessible mobile phones

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Very good



Good



Average

Assessment	Model	Comments	Possible adaptation
<p>Visually impaired</p> 	<p>Samsung A6+</p> 	<ul style="list-style-type: none"> • Voice Assistant • Adjustment of font size (very large font) + screen magnification • Large icons • Choice between 4 types of contrasts + adjustment of keyboard size and layout • Color inversion and/or adjustment • NB: the magnifying glass disables the Voice Assistant 	
<p>Blind</p> 			



Accessible mobile phones

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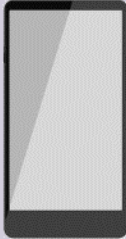

Very good



Good



Average

Assessment	Model	Comments	Possible adaptation
Visually impaired 	Samsung A7 2018 	<ul style="list-style-type: none"> • Adjustment of keyboard size • Adjustment of keyboard contrast • Choice of home-screen grid • TalkBack • Zoom in by spreading the fingers apart • Color lenses to adjust screen colors 	
Blind 			



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Very good



Good



Average

Evaluation	Model	Comments	Possible adaptation
Visually impaired 	SAMSUNG Galaxy A 8 	<ul style="list-style-type: none">• Samsung accessibility menu very complete and well implemented• Voice tags: possibility to link recorded voice comments to NFC tags• Talkback is sometimes slow to react	
Blind 			



Accessible mobile phones

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Very good



Good



Average

Assessment	Model	Comments	Possible adaptation
Visually impaired 	Samsung A9 	<ul style="list-style-type: none">• Voice assistant (no "Select to Speak")• Bixby Voice (not yet in French)	Possibility of downloading "Android Accessibility Suite" on Playstore
Blind 			



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Very good



Good



Average

Evaluation	Model	Comments	Possible adaptation
<p>Visually impaired</p> 	<p>Samsung A50</p> 	<ul style="list-style-type: none"> • Voice assistant (no "Select to Speak") • Whole-screen display - no buttons • Screen zoom • Slide to call/send texts 	
<p>Blind</p> 			



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Very good



Good



Average

Assessment	Model	Comments	Possible adaptation
Visually impaired 	Samsung A51 	<ul style="list-style-type: none"> • "Your Phone Companion" allows you to read and answer text messages via a computer. • Screen reader • Improved visibility: contrast, font size, zoom, etc. • Simplified launcher 	
Blind 			



Accessible mobile phones

We recommend these devices to people with a visual impairment because of their programmable keys, vibra alert function, and the possibility to assign a ringtone to a contact (caller identification through the ringtone).






Very good



Good



Average

Assessment	Template	Comments	Possible adaptation
Visually impaired 	Samsung A71 	<ul style="list-style-type: none"> • Voice Assistant • Google Assistant • Contrast and color settings • Simplified mode with interesting contrasts for keyboard, font, theme • Magnifier window • Zoom with text tracking • Choice of ring tones and vibrations • Screen sensitivity settings 	
Blind 			



Accessible mobile phones

We recommend these devices to people with a visual impairment because of their programmable keys, vibra alert function, and the possibility to assign a ringtone to a contact (caller identification through the ringtone).






Very good



Good



Average

Assessment	Model	Comments	Possible adaptation
Visually impaired 	Samsung Galaxy A10 	<ul style="list-style-type: none"> • Voice Assistant. • Two speech-synthesis engines (Samsung and Google). • Choice of 7 font sizes; adjustment of font size and display size, possibility to change the font or even download extra fonts. • Adaptive brightness (current lighting conditions). Night mode. • Themes, keyboard, fonts (high-contrast), negative colors. • Inversion of text colors. Color lens. • Zoom. Magnifier. Adjustment of display size. 	
Blind 			



Accessible mobile phones

We recommend these devices to people with a visual impairment because of their programmable keys, vibra alert function, and the possibility to assign a ringtone to a contact (caller identification through the ringtone).






Very good



Good



Average

Evaluation	Model	Comments	Possible adaptation
Visually impaired 	SAMSUNG Galaxy Note 8 	<ul style="list-style-type: none"> • Samsung accessibility menu • 6.3" screen • 2 enlargement levels (zoom and font sizes) + magnifying glass • Unlocking with face recognition • Integrated stylus • Arrival of "Bixby" but only in English 	
Blind 			



Accessible mobile phones

We recommend these devices to people with a visual impairment because of their programmable keys, vibra alert function, and the possibility to assign a ringtone to a contact (caller identification through the ringtone).




Very good



Good



Average

Assessment	Model	Comments	Possible adaptation
Visually impaired	Samsung Galaxy Note 10+ 	<ul style="list-style-type: none"> • 7 font sizes • Choice of 4 keyboard display modes • Magnifier: zoom which follows typing • Adjustment of screen display • Bold font optional 	
Blind			



Accessible mobile phones

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Very good



Good



Average

Assessment	Template	Comments	Possible adaptation
Visually impaired 	Samsung Note 20 5G 	<ul style="list-style-type: none"> • Voice Assistant • Google Assistant • Contrast and color settings • Simplified mode with interesting contrasts for keyboard, font, theme • Magnifier window • Zoom with text tracking • Choice of ring tones and vibrations • Screen sensitivity settings 	
Blind 			



Accessible mobile phones

We recommend these devices to people with a visual impairment because of their programmable keys, vibra alert function, and the possibility to assign a ringtone to a contact (caller identification through the ringtone).





Very good



Good



Average

Assessment	Model	Comments	Possible adaptation
Visually impaired 	Samsung Galaxy J4 +	<ul style="list-style-type: none">• Adjustment of keyboard size• Adjustment of keyboard contrast• Choice of home-screen grid• TalkBack• Touch screen lock (prevents screen from detecting an accidental touch)	
Blind 			



Accessible mobile phones

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Very good



Good



Average

Evaluation	Model	Comments	Possible adaptation
<p>Visually impaired</p> 	<p>Samsung S10</p> 	<ul style="list-style-type: none"> • Voice Assistant (no "Select to Speak") • Bixby Voice (In French but not very accomplished) • Whole-screen display - no buttons • Screen zoom (2 options) • Magnifying window (7 different zones) • Screen adjustment: Grey scale - protanope - deuteranope - tritanope - personalized colors 	
<p>Blind</p> 			



Accessible mobile phones

We recommend these devices to people with a visual impairment because of their programmable keys, vibra alert function, and the possibility to assign a ringtone to a contact (caller identification through the ringtone).






Very good



Good



Average

Assessment	Template	Comments	Possible adaptation
Visually impaired 	Samsung Galaxy S10 Lite 	<ul style="list-style-type: none">• Voice Assistant• Google Assistant• Contrast and color settings• Simplified mode with interesting contrasts for keyboard, font, theme• Magnifier window• Zoom with text tracking• Choice of ring tones and vibrations• Screen sensitivity settings	
Blind 			



Accessible mobile phones

We recommend these devices to people with a visual impairment because of their programmable keys, vibra alert function, and the possibility to assign a ringtone to a contact (caller identification through the ringtone).






Very good



Good



Average

Assessment	Model	Comments	Possible adaptation
Visually impaired 	Samsung S20 + 	<ul style="list-style-type: none"> • Voice Assistant • Contrast and color settings • Simplified mode with interesting contrasts for keyboard, font, theme • Magnifier window • Zoom with text tracking • Choice of ring tones and vibrations 	
Blind 			



Accessible mobile phones

We recommend these devices to people with a visual impairment because of their programmable keys, vibra alert function, and the possibility to assign a ringtone to a contact (caller identification through the ringtone).







Very good



Good




Average

Evaluation	Model	Comments	Possible adaptation
<p>Visually impaired</p> 	<p>Sony Xpéria XZ Premium</p> 	<ul style="list-style-type: none"> The accessibility menu is limited. High quality large screen Light vibrations 	<p>An adapted stylus can make it easier to operate the device.</p> 
<p>Sourd</p> 			



Accessible fixed-line phones

We recommend these phones for their large keys, high-contrast screen, and hands-free function.

Models	Visual impairment		Hearing impairment		Motor impairment	Mental impairment	Comments
	Visually impaired	Blind	Visually impaired	Deaf			
Maestro 6042 	+	+	+	/	+	+	Large white keys with large black characters or black keys with large white characters. Caller name and number display via the appropriate Proximus services. Hands-free function LED indicator for incoming calls Large backlit touch screen with medium-sized characters Possibility to double the volume of the handset via a button on the front of the phone. Adjustable speaker volume. 3 programmable direct dialling buttons. Directory for up to 10 numbers.


- + Suitable
- Not suitable
- +/- Can be used with its basic functions or with assistance





Accessible fixed-line phones

We recommend these phones for their large keys, high-contrast screen, and hands-free function.

Models	Visual impairment		Hearing impairment		Motor impairment	Mental impairment	Comments
	Visually impaired	Blind	Visually impaired	Deaf			
<p>Twist 392</p> 	+	+	+	/	+	+	<p>Hands-free function with adjustable volume on the base station. This makes it easier to use the phone's call and answer functions.</p> <p>Moreover, the programmable call keys on the base station (with the possibility to place a photo in the button) make the phone very suitable for people with a mental or motor impairment or for the elderly.</p> <p>Need for training or assistance with the programming of extra functions for the blind and visually or mentally impaired.</p> <p>Switch to the "T" position possible, but not very efficient.</p> <p>However, the adjustable volume via the handset and the amplification function allow you to listen at a comfortable level thanks to the loud, high-quality sound.</p>

+ Suitable
 - Not suitable
 +/- Can be used with its basic functions or with assistance





Adapted rate plans

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