

ICS 33.030

CCS M 21



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 47523-2026

**Technical specification for the age-friendliness of mobile
internet applications**

移动互联网应用程序适老化技术规范

Issued on: April 30, 2026

Implemented on: November 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

4 Technical Requirements

4.2 Perceptibility

4.3 Operability

4.6 Security

5 Test Methods

5.1 Test Conditions

5.2 Perceptibility

5.3 Operability

5.6 Security

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the Ministry of Industry and Information Technology of the People's Republic of China. This document was drafted by: China Academy of Information and Communications Technology, China Mobile Communications Group Co., Ltd., and Beijing Douyin Information Service Co., Ltd. Alibaba (China) Co., Ltd., Ant Group Co., Ltd., Vivo Mobile Communications Co., Ltd., and Beijing Xiaomi Mobile Software Co., Ltd. Limited Liability Company, Shanghai Xunmeng Information Technology Co., Ltd., Shanghai Lazaz Information Technology Co., Ltd., and Ping An Bank Co., Ltd. The main drafters of this document are: Lei Ming, Wang Li, Su Zhaofei, Li Jun, Pu Guiyang, Meng Fanling, Ge Zhiyong, Li Lei, Jia Qian, Qu Jiayu, and Zhou Kexin. Wen Xin, Zhang Shuo, Xu Yunlong, Wu Xun, Jia Juanjuan, Huang Tianning, Tang Jiawei, Lü Yao, Gao Lifang, Cao Wan, Zhao Xiaoping, Xu Ning, Yin Jie, Yang Chen, Yuan Han Li Ying, Cheng Haining, Xia Yi, Zhang Yunlei. Aging-Friendly Technical Specifications for Mobile Internet Applications

1. Scope This document specifies the technical requirements for age-friendly modifications to mobile internet applications (Apps), including perceptibility, operability, and rationality. The requirements for solvability, compatibility, and security are described, along with the corresponding testing methods. This document applies to the development and testing of age-friendly features for mobile internet application products, including both standalone

age-friendly applications and more. The product also includes age-friendly modes embedded in the application.

4 Technical Requirements

4.1 Overview The App Age-Friendly Technical Specifications stipulate requirements in five aspects: perceptibility, operability, understandability, compatibility, and security. Unless otherwise specified in this document, the requirements for age-friendly modes and separate age-friendly apps (such as font size adjustment in section 4.2.1, and group 4.3.1) are not detailed here. Apart from the following requirements (4.4.5.5.6.1...

4.2 Perceptibility

4.2.1 Font size adjustment for aging In apps, sans-serif fonts are recommended, and the font size should be adjustable (either by adjusting system settings or by having built-in functionality within the app). (Font size settings options). In systems that use device-independent pixels (dp) as the pixel unit, the default setting is adaptive aging mode or single... In older versions of the app, the minimum text size should be 18 dp/pt; in systems using pixels (pt) as the unit of measurement... In the default settings, the minimum text size for main text in the age-friendly mode or a standalone age-friendly app is 18pt. (App mode change) After adjusting the font, the font in the interface should take into account both the scene and the display effect.

4.2.2 Adjusting line spacing to suit aging In the app, the line spacing within a paragraph should not be less than

1.3 times the line spacing, and the paragraph spacing should not be less than

1.3 times the line spacing. Paragraphs in the interface should also... Gu App's applicable scenarios and display effects.

4.2.3 Contrast Adjustment for Aging In an app, the contrast between text/text image rendering, icons, and other elements should not be less than 4.5.1.If the font size is greater than or equal to... At 18 dp/pt, the text/text image contrast ratio should not be less than 3.1.

4.2.4 Uses of Color In apps, text color is not the only means of distinguishing visual elements for conveying information, indicating actions, or prompting responses. For example... For example, if a user enters an incorrect password, text or voice prompts should be used to directly indicate the error; it is not advisable to use only color as a visual cue. This is a means of providing a prompt.

4.2.5 Verification Code In an app, if the app contains non-text CAPTCHAs (such as puzzle-type or image selection-type CAPTCHAs) that are difficult to understand... The format should provide alternative forms of expression that can be accepted by different types of senses (sight, hearing, etc.), such as text or speech.

4.3 Operability

4.3.1 Adjusting the component focus size for aging adaptation In systems that use dp as the pixel unit, the main components of a standalone age-friendly app or application's age-friendly mode homepage can be clicked. The size of the clickable area should be no less than 48dp x 48dp, and the size of the clickable focus area of other main components on other pages should be no less than 44dp x 44dp; In systems that use points (pt) as the pixel unit, the main components of a standalone age-friendly app or application's age-friendly mode homepage can be clicked in the focus area. The size should be no less than 48ptx48pt, and the size of the clickable focus area of the main components on other pages should be no less than 44ptx44pt.

4.3.2 Age-appropriate adjustment of gesture operation Within the app, feedback prompts should be provided regarding the results of user gesture navigation or operations; avoid requiring three or more fingers to navigate. It can perform complex gesture operations.

4.3.3 Sufficient operating time for appropriate aging adjustment Within an app, if the time limit is not a necessary part or key element of the activity, and will not lead to any legal commitment or financial transaction by the user... If the task is easy, sufficient time should be allowed for user actions, and the page or component should not change until the user has completed their action. For example, clause-based reading materials should not have... There are time limits; the minimum payment time is no less than 15 minutes; the validity period of SMS verification codes (including payment verification codes) is no less than 5 minutes.

4.3.4 Floating Window Adjustment for Age-Friendly Use If there are floating windows in the app, a button should be provided that makes it easy for users to close them. In systems using dp as the pixel unit, the minimum click response area for a floating window close button should be no less than 44dp x 44dp; using pt... In systems where pixels are used as the unit of measurement, the minimum click response area for a floating window close button should not be less than 44pt x 44pt.

4.4 Understandability When users install apps through app stores, app operators should provide prominent guidance on age-friendly settings and functions frequently used by seniors. hint. Apps with an embedded age-friendly mode should have a prominent entry point on their homepage that allows users to switch to age-friendly mode; or provide a prominent entry point upon first access. The app should display a switch prompt and provide an entry point for the age-friendly mode in the root directory such as "Settings" or "My Account". Apps with search functionality should include a "Senior Version". As the standard search function name, users can directly access it through the search function, and can also set aliases such as "Family Version," "Caring Version," and "Compassionate Version" for search. Keywords.

4.5 Compatibility Apps should not restrict the access and use of auxiliary devices (such as

screen reader software) that have already been adapted by terminal manufacturers. When accessibility tools are enabled, all functional components in the app should function correctly. buttons should be accessible; input fields should function normally. Input should be processed; multimedia should play normally; after a partial page update, newly added functional components in the App content should also function normally.

Note. The scope of application for assistive technologies does not include map information.

4.6 Security

4.6.1 Advertising Plugin In the age-friendly mode of an app or a standalone age-friendly version of the app, there should be no advertising content or inserts that interfere with users' normal network usage. The device should not display advertisements randomly or as temporary pop-up ads.

4.6.2 Induced Components The app should not contain any misleading components that induce downloads or payments.

4.6.3 Protect the personal information security of elderly users When collecting and processing personal information, apps should adhere to the principle of minimum necessity, meaning that the collection and processing of personal information should have a clear and reasonable purpose. And should be limited to the minimum scope required to achieve the purpose of collection and processing, and should not involve the collection or processing of personal information unrelated to the purpose of collection and processing. To ensure the security of elderly users' personal information, specific actions regarding the collection of personal information (such as location information, image information, etc.) should comply with regulations. The provisions in GB/T 35273-2020.

5.1 Test Conditions

5.1.1 Test Environment Conditions Except for tests with specific requirements, all other tests shall be conducted under standard atmospheric conditions for testing.

- a) Temperature. 15°C~35°C;
- b) Relative humidity. 25%~75%;
- c) Atmospheric pressure. 86 kPa~106 kPa.

5.1.2 Test Terminal Conditions The test terminal system version should be updated to the latest version pushed to that terminal.

5.1.3 Pre-set conditions for the test object The tested app must meet the following basic requirements.

- a) The app being tested should be in a normal state;
- b) The tested App should complete the age-friendly design or modification according to the