Tencent Interactive Whiteboard

Product Introduction

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Product Introduction
Overview

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Tencent Interactive Whiteboard (TIW) provides a complete set of multi-person real-time interactive whiteboard services to break the barriers for teacher-student information transfer during online teaching. Compared with traditional face-to-face teaching, it has more comprehensive, straightforward, and diverse features, such as interactive graffiti, graffiti trajectory synchronization, document presentation synchronization, document sharing, media sharing, document transcoding, real-time synchronous recording of whiteboard and audio/video, and replay. With high flexibility, ease of use, and scalability, it can help you deliver a vivid interactive experience comparable to offline teaching and significantly improve the quality of online teaching.

Feature Overview

Tencent Interactive Whiteboard provides the following core features:

Features	Description
Tencent Interactive Whiteboard	Ultra-low latency, real-time interaction, and global interconnection in whiteboard rooms, supporting the upload and display of various file formats, offering rich whiteboard operation tools, and supporting multi-person real-time interaction.
Static transcoding	Document to image conversion, supporting the conversion of PPT, PPTX, WORD, PDF, and other file formats into images, enriching whiteboard presentation materials.
Dynamic transcoding	Document to webpage conversion, supporting the conversion of PPT and PPTX into webpages, retaining the original animation effects, audio, and video, helping to present information completely and vividly.
Whiteboard recording and playback	Supports whiteboard video recording, recording all operations on the whiteboard, dynamic PPT, and custom events in real-time. Supports multi-platform playback, with forward, backward, and playback speed options, allowing you to review all content of the real-time whiteboard room anytime, anywhere.

Product Features

The interactive whiteboard offers a variety of tools and components to meet different needs, enhancing the interactive experience for whiteboard users.

Basic Feature

Tool Name	Description
Brush	Supports graffiti brushes in various colors and thicknesses
Eraser	Supports quick erasure of brush strokes
Selection tool	Supports selecting single or multiple objects for editing
Text tool	Supports text insertion, with options for different fonts, font sizes, and font colors
Basic shapes	Supports drawing basic shapes like circles, ovals, rectangles, triangles, diamonds, cubes, cylinders, and cones
Custom shapes	Supports custom shape teaching aids: experimental instruments, musical notes, and other shapes
Line	Supports inserting lines
Arrow	Supports inserting arrows
Laser pointer	Supports using laser pointer
Eraser	Supports segment erasing and whole erasing
Clear	One-click to clear all elements on the whiteboard
Hand tool	Supports dragging the page
Undo, redo	Supports quick undo and redo
Copy, paste	Supports copy and paste editing

Advanced Features

Name	Description
Document courseware preloading	Support transcoding document courseware preloading to local, solving the problem of slow loading of resources such as images

Insert file	Support uploading the following file formats, and after transcoding, the file content is synchronized and shared on the whiteboard: • Dynamic demonstration file: PPTX, PPT • Static demonstration file: PPTX, PPT • Text file: DOC, DOCX • Table file: XLS, XLSX • Image file: JPG, JPEG, PNG, BMP • Audio file: MP3 • Video file: MP4 • H5 file: HTML5 • Other file formats: pdf, txt
Track Sync	Support real-time track sync for multiple persons' screens
Permission Control API	Support setting operation permissions for whiteboard and graphic elements: Whiteboard: scrolling and scaling operations. Graphic elements: create, edit, move, delete, and clear operations
Whiteboard Adaptive	Support whiteboard adaptive to parent container dimensions
Recorded Replay	Support recording and playback of whiteboard canvas operation content
View Control	Support view following, syncing the anchor's screen view to the audience
Cursor Tool	Support cursor position display, cursor teaching aid status, and cursor operator name display
Page Scaling	Support zoom in, narrow down the page, display current percentage, and return to initial size and position
Whiteboard Pagination	Support adding multiple whiteboard pages
Pagination control	Support displaying total pages, current page, and jumping to the previous page, next page, homepage, and last page
Side preview	Support previewing multi-page content, inserting blank pages, and deleting pages

Documentation Center	Support managing files uploaded in the whiteboard room
Custom Event	Support expanding room message notification feature based on the whiteboard
Customize global status	Support maintaining the status of online rooms without worrying about status loss
Whiteboard information	Log information supports inquiry: whiteboard ID, whiteboard type, whiteboard page number, content width and height, shared authentication information, etc.
File information	File information supports inquiry: file ID, file type, file page number, content width and height, shared authentication information, etc.

Supported Platforms

Tencent Cloud Interactive Whiteboard **achieves cross-platform connectivity.** The specific platform support is shown in the table below:

Platform	SDK and Compatibility	Demo	Demo Source Code
iOS	Supported; compatible with iPhone or iPad running iOS 8.0 or later.	Supported	Supported
Android	Supported; minimum compatibility with Android 4.2 (SDK API Level 17).	Supported	Supported
Windows	Supported; compatible with Windows 7 or later.	Supported	Supported
Mac OS	Supported; compatible with Mac running OS X 10.10 or later.	Supported	Supported
Web	Supported; for detailed compatibility, see Initialization (Web) .	Supported	Supported
WeChat Mini	Supported; compatible with WeChat version 6.6.6 or later.	Supported	Supported

Progra m			

> ⊙ **Note:**
>   - For SDK downloads for each platform, please see SDK Download .
>   - For demo experiences on each platform, please see Demo .

Advantages

Ultra-Low Latency, Stable and Reliable

- Tencent Cloud's self-developed engine ensures whiteboard operation latency as low as 100ms, maintaining a smooth experience even in poor network environments, saving bandwidth resources while creating an interactive experience similar to offline classroom teaching.
- The service is deployed at multiple global nodes, providing a smooth experience for users in different regions through local access and intelligent routing control strategies.
- Global distributed cluster deployment provides a dual disaster recovery plan, ensuring high availability of the service. Single room capacity can be configured on demand, with no limit on concurrent capacity.

Fully Featured, Multi-Platform Support

Provides a variety of tools, supporting multiple users for doodle drawing, a complete set of brush annotation tools, document sharing, document transcoding, teaching video recording, and playback.
Covers mainstream online classroom platforms such as Windows, macOS, WEB, iOS, Android, and mini programs.

Easy to Use, Free Expansion

Provides SDKs supporting all platforms, allowing quick integration with just a few lines of code. It can be used simultaneously with audio and video, IM services , allowing users to freely combine and match as needed.

Synchronous Recording of Whiteboard Content and Teaching Audio and Video

Industry-leading synchronous recording solution solves the issues of asynchronous presentation and high post-production mixing costs caused by separate recordings of whiteboard content and teaching audio and video, easily completing the entire classroom teaching recording process.

Multi-Format Document Transcoding

Supports dynamic and static document conversion, converting PPT, Word, PDF, and other files into HTML5 pages or images. Compared to static conversion, dynamic conversion retains animations in courseware, providing more complete information transmission and better visual experience.

Private Deployment

Supports multiple deployment forms such as private cloud and hybrid cloud, supports active-active architecture, and encrypted channel transmission to ensure data security and integrity.

Use Cases

Online education

The interactive whiteboard can be widely used in online STEAM education, vocational education, language training, corporate training, and institutional teaching classroom scenarios, breaking the barriers of information transmission between teachers and students in online teaching. Teachers can demonstrate courseware and highlight learning points. Students can operate synchronously online, providing intuitive feedback on course learning mastery.

Remote Meeting

The interactive whiteboard can be widely used in industry scenarios such as remote meetings, digital government, and remote medical care. It is a powerful tool for remote online meetings, supporting online presentation of various document formats, making presentations more vivid and communication more efficient. It supports multi-person online collaborative annotation, cloud review, and cloud meeting minutes, improving communication and collaboration efficiency, and conveying inspiration and key points more directly.

Financial Video Signing

The interactive whiteboard can be widely used in digital finance, video signing, remote witnessing, and signature confirmation financial scenarios, handling business remotely to meet industry compliance regulatory requirements. Both parties can use the whiteboard for cloud signing and signature confirmation, with signing documents encrypted for storage.

Game Socializing

Widely used in sketch guessing game, interactive doodling, and other entertainment scenarios, providing various brush tools, supporting collaborative pattern drawing, enhancing interactivity, supporting online doodle, allowing inspiration to flow freely, and interactive screen recording to capture exciting interactive moments.

Use Limits
Document Requirements

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General Specifications

1. Please check if the file name contains special characters. It is recommended to use only Chinese, English, and numbers. File names with special characters may cause transcoding failure.

2. Please check if the path of the file storage contains special characters. Paths with special characters may cause transcoding failure.

3. The document must be editable. "Read-only", "encrypted", or other protected documents are not supported and may cause transcoding failure.

4. For creating dynamic documents, please use Microsoft Office 2013 or higher versions. Files created with lower versions of Microsoft Office or other office software such as WPS, Keynote, Microsoft Office 2003, Microsoft Office 2007, etc., are not supported.

5. For creating static documents, please use Microsoft Office 2013 or higher versions. Other office software such as WPS can also be used.

Dynamic Document Specifications

> ⓘ **Note:**
> - **Dynamic Document:** During the creation of PPT or PPTX, animation effects, audio and video, and other dynamic elements are inserted.
> - **Dynamic Transcoding:** Convert dynamic documents (PPT, PPTX) to web pages, retaining the animation effects, audio, and video from the original document to help present information completely and vividly.
> - **Dynamic Document Transcoding Priority:** The default dynamic transcoding initiated has a normal priority, supporting dynamic documents within 500 pages. If the dynamic document exceeds 500 pages, low priority transcoding must be initiated.

Normal Priority:
- Dynamic Document Types: PPT, PPTX.
  - Document Download Timeout Period: `2` minutes
  - Document pages: `500` pages
  - Maximum support: 200MB

Low priority:

- Dynamic document types: PPT, PPTX.
  - Document download timeout period: 10 minutes
  - Document pages: 2,000 pages
  - Maximum support: 200MB

> ⚠ **Note**
>
> Low priority transcoding refers to transcoding tasks with the parameter Priority: low. These tasks support larger files and more PPT pages but have longer queuing times, possibly being processed during off-peak hours (e.g., midnight). If your scenario involves many PPT pages and large files, you can choose the low priority dynamic transcoding option, but note that you need to initiate the transcoding task at least `1 day` in advance before the class (using the transcoded document in the whiteboard).

1. It is recommended that the size of a single PPT page does not exceed 300KB (including text, images, and audio/video files). Large PPT files or single pages may cause slow loading or failure.
   - File transcoding is subject to resource limits and queuing logic. The transcoding time is affected by file size, so when there are many transcoding tasks or large files, the queuing or transcoding time will increase, causing the submitted transcoding tasks to take longer to complete.
   - For PPT files that need to be shared, it is recommended to transcode in advance (e.g., submit the transcoding task one day in advance) so that they can be directly loaded when used, avoiding long waiting times during classes/meetings and improving the experience.
2. PPT files use the default Chinese and English fonts of the operating system. Do not use self-installed fonts, as non-default fonts may cause text garbling and PPT style errors. See Fonts Supported by PowerPoint Files.
3. The slide change method for dynamic PPT slides must be set to "slide change on mouse click" to use the **click** tool to turn the slides. Otherwise, clicking on the dynamic PPT file page will not turn the slides.
4. Do not insert Flash files in PPT files, as Flash playback is not supported.
5. Try not to insert audio and video files in PPT files. If you must insert them, please follow these standards:
   - Currently, embedded audio and video in PPT only support the play, suspension, and drag and drop progress of MP4 video files and MP3 audio files. If you want to embed other formats of audio and video files, please convert the audio files to MP4 or MP3 before inserting them into the PPT.

○ When inserting MP4 videos into dynamic PPT files, do not set the video to play automatically after switching pages or clicking on animation steps, as this will cause multi-end display synchronization issues in the PPT file.

○ When inserting audio and video into PPT, do not set them to play automatically.

6. When inserting GIF images into PPT, pay attention to the following standards:

○ Set the GIF image attribute to loop before inserting it into the PPT, otherwise, the GIF animation will not play normally after transcoding.

○ Do not add softening edge effects or other special effects to GIF images, as this will cause the GIF animation to not play normally after transcoding.

○ Do not crop GIF images, as this will cause abnormal dimension display after transcoding.

7. Do not insert external links in PPT files, as opening external links is not supported.

8. Do not retain **"ink strokes"** doodling in the original PPT, as this may cause transcoding failure. You can open the PPT with PowerPoint, then **Overview** > **Select** > **Selection Pane** > **Check if there are "ink strokes"**.

9. Notes for creating PPT animation effects:

○ Do not add unsupported animations. Refer to the Animations Supported by PowerPoint Files . The following 5 animations are not supported: Bold Flash, Underline, Grow With Color, Bold Reveal, Wipe.

○ Try to use no more than 5 animations per PowerPoint slide, as it may cause the file to load slowly or fail.

○ Try to use no more than 1 animation per trigger on each PowerPoint slide, as it may cause file synchronization issues across different devices.

○ Avoid using cross-page animations on each PowerPoint slide, as it may cause file synchronization issues across different devices.

○ Do not set animations/links that cause PPT page turning, as it may lead to file desynchronization across devices.

○ When adding dynamic effects to text, do not add them while editing the text. Add dynamic effects in non-editing mode.

○ Do not add 3D dynamic effects to elements.

○ Do not set loop dynamic effects for the same element.

○ Do not overlay elements on the PPT page, as the overlay layer will affect the display and click results of the elements.

○ Do not click to execute the next animation before the current animation is completed, as it may lead to inconsistent animation results across devices.

○ Use different text boxes to display text, mathematical formulas, etc., with each animation step corresponding to a text box. Otherwise, it may affect the normal

playback of animation steps after transcoding.

10. To ensure the clarity of the PPT file, it is recommended:

  ○ Set the PPT page size to twice the default width and height (when creating a PPT, select **Design** > **Slide Size** > **Custom Size Menu**), i.e., 50 cm width and 28 cm height for 16:9 ratio; 50 cm width and 38 cm height for 4:3 ratio.

  ○ Transcode through a high-definition interface, but note that using high-definition transcoding will increase the file size, which may lead to slow file loading or failure.

11. Do not set the PPT page as a hidden slide in the left navigation window of the PPT, as it may cause the page to not display properly.

12、It is recommended not to add a fluorescent background to text in PPT/PPTX documents.

Static Document Requirements

> ⓘ **Note:**
> 1. Static Transcoding: Document to Image. Supports converting presentation files, text files, table files, image files, etc., into images. Dynamic elements such as animations, audio, and video in the original document are not displayed.
> 2. The size of a single static document cannot exceed 200 MB, and the page number cannot exceed 5,000 pages.

- Presentation files: PPTX, PPT, POT, POTX, PPS, PPSX, DPS, DPT, PPTM, POTM, PPSM.
- Text files: DOC, DOCX, DOT, WPS, WPT, DOTX, DOCM, DOTM.
- Spreadsheet files: XLS, XLT, ET, ETT, XLSX, XLTX, CSV, XLSB, XLSM, XLTM, ETS.
- Other format files: PDF, TXT, LRC, C, CPP, H, ASM, S, JAVA, ASP, BAT, BAS, PRG, CMD, RTF, LOG, XML.

1. Use the operating system default Chinese and English fonts in static documents. Do not use self-installed fonts.
2. Non-operating system default fonts may cause text garbled and PPT style errors. Please refer to Fonts Supported by PowerPoint Files .
3. Keep the page width consistent for all pages in the same file, otherwise, some pages may not display completely or may jitter.

Other Document Specifications

> ⓘ **Note:**
> 1. Audio file: MP3 format, single file size not exceeding 50 MB.

> 2. Video file: MP4 format, single file size not exceeding 500 MB.
>
> 3. Video encoding standard is limited to H.264.

- Audio files: MP3.
- Video files: MP4.
- Image files: JPG, JPEG, PNG, BMP.

Animations Supported by PowerPoint Files

Last updated：2024-12-19 17:15:45

It is recommended that developers use the following supported animation effects when creating PowerPoint files. Avoid using other unsupported animation effects, as this may result in transcoding failure, abnormal animation effects after transcoding, or inconsistency in animation display across multiple platforms.

Basic Animation Effects

Entrance Effects

Moderate

Basic Zoom	Center Revolve	Grow & Turn	Spinner	Float Down	Float Up	Rise Up
Compress	Stretch					

Exciting

Basic Swivel	Bounce	Curve Up	Flip	Pinwheel	Whip	Boomerang
Credits	Drop	Float	Spiral In			

Emphasis Effects

Basic

Fill Color	Font Color	Grow/Shrink	Transparency	Spin	Line Color

Subtle

Bold Flash	Complementary Color	Complementary Color 2	Brush Color	Contrasting Color	Darken	Desaturate
Lighten	Object Color	Pulse	Underline			

Moderate

Color Pulse	Grow With Color	Shimmer	Teeter

Exciting

Blink	Bold Reveal	Wave

Exit Effects

Basic

Blinds	Checkerboard	Diamond	Dissolve Out	Peek Out	Random Bars	Strips
Wheel	Box	Circle	Disappear	Fly Out	Plus	Split
Wedge	Wipe					

Subtle

Contract	Fade	Swivel	Zoom

Moderate

Basic Zoom	Center Revolve	Float Down	Float Up	Shrink & Turn	Spinner	Sink Down
Collapse	Stretchy					

Exciting

★ Basic Swivel	★ Bounce	★ Curve Down	★ Flip	★ Pinwheel	★ Whip	★ Boomerang
★ Credits	★ Drop	★ Float	★ Spiral Out			

Motion Paths

Basic

4 Point Star	5 Point Star	Hexagon	Octagon
6 Point Star	8 Point Star	Parallelogram	Pentagon
Circle	Crescent Moon	Right Triangle	Square
Diamond	Equal Triangle	Teardrop	Trapezoid
Football	Heart		

Lines & Curves

Arc Down	Arc Left	S Curve 1	Spiral Left
Arc Right	Arc Up	S Curve 2	Spring
Bounce Left	Bounce Right	Sine Wave	Turn Down
Curvy Left	Curvy Right	Spiral Right	Turn Up
Decaying Wave	Diagonal Down Right	Stairs Down	Up
Diagonal Up Right	Down	Turn Down Right	Zigzag
Funnel	Heartbeat	Turn Up Right	Left
Right	Wave		

Special

Bean	Curved X	Neutron	Peanut
Curved Square	Figure 8 Four	Plus	Pointy Star
Curvy Star	Inverted Square	Swoosh	Vertical Figure 8
Horizontal Figure 8	Inverted Triangle	Loop de Loop	

Transition Animation Effects

Subtle

Cut	Fade	Push	Wipe	Split	Reveal	Random Bars	Shape
Uncover	Cover	Flash	Morph				

Exciting

Fall Over	Drape	Curtains	Wind	Prestige	Fracture	Crush	Peel Off
Page Curl	Airplane	Origami	Dissolve	Checkerboard	Blinds	Clock	Ripple
Honeycomb	Glitter	Vortex	Shred	Switch	Flip	Gallery	Cube
Doors	Box	Comb	Zoom	Random			

Dynamic Content

Pan	Ferris Wheel	Conveyor	Rotate	Window	Orbit	Fly Through
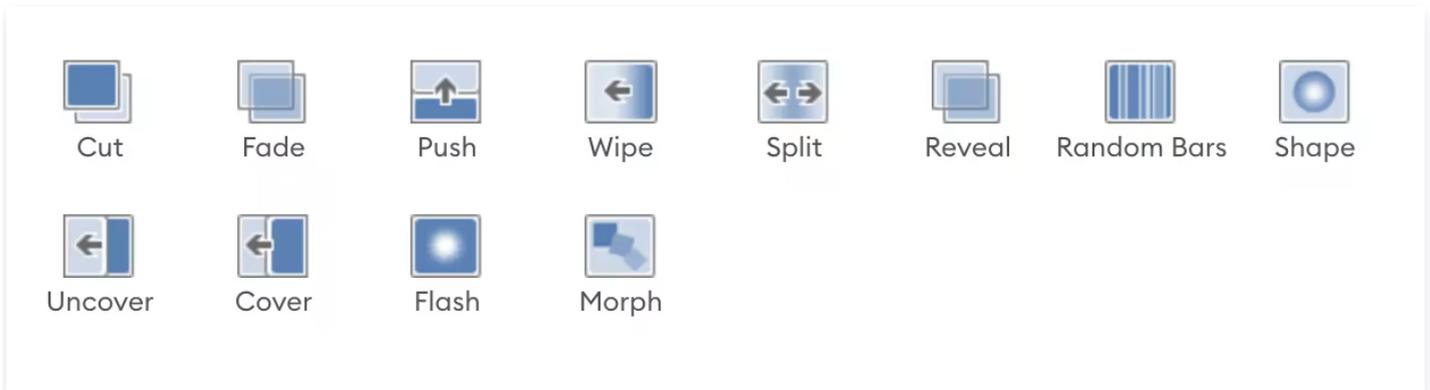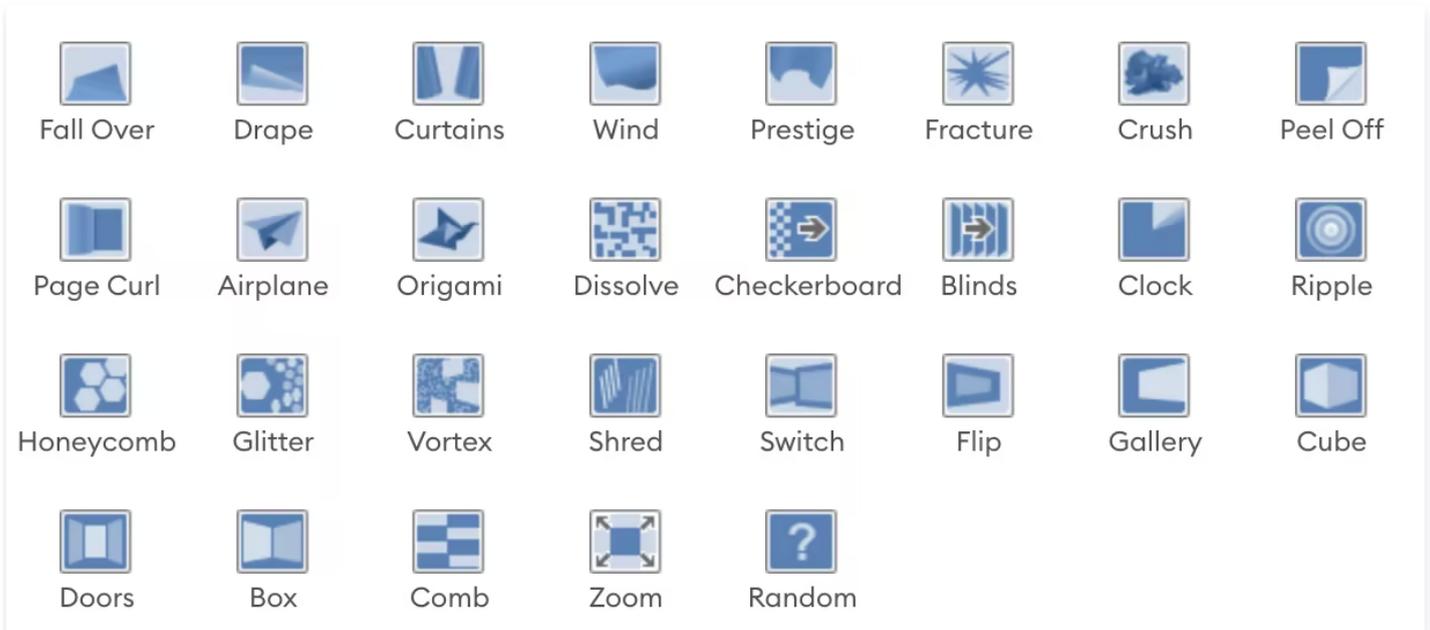
Fonts Supported by PowerPoint Files

Last updated：2024-12-19 17:16:11

It is recommended that developers use the following fonts when creating PPTs to avoid using other unsupported fonts, as this may result in transcoding failures or abnormal formats after transcoding.

```
 1.    Agency FB
 2.    Agency FB Bold
 3.    Algerian
 4.    Arial
 5.    Arial Black
 6.    Arial Bold
 7.    Arial Bold Italic
 8.    Arial Italici
 9.    Arial Narrow
10.    Arial Narrow B old
11.    Arial Narrow B old ltalic
12.    Arial Narrow Italic
13.    Arial Rounded MT Bold
14.    Arial Unicode MS
15.    Bahnschrift Condensed
16.    Bahnschrift Light
17.    Bahnschrift Light Condensed
18.    Bahnschrift Light SemiCondensed
19.    Bahnschrift Regular
20.    Bahnschrift SemiB old
21.    Bahnschrift SemiB old Condensed
22.    Bahnschrift SemiB old SemiCondensed
23.    Bahnschrift SemiCondensed
24.    Bahnschrift SemiLight
25.    Bahnschrift SemiLight Condensed
26.    Bahnschrift SemiLight SemiCondensed
27.    Baskerille Old Face
28.    Bauhaus 93
29.    Bell MT
30.    Bell MT Bold
31.    Bell MT Italic
```

```
32.   Berlin Sans FB
33.   Berlin Sans FB Bold
34.   Berlin Sans FB Demi Bold
35.   Bernard MT Condensed
36.   Blackadder ITC
37.   Bodoni MT
38.   Bodoni MT BIack
39.   Bodoni MT BIack Italic
40.   Bodoni MT Bold
41.   Bodoni MT Bold Italic
42.   Bodoni MT Condensed
43.   Bodoni MT Condensed Bold
44.   Bodoni MT Condensed Bold Italic
45.   Bodoni MT Condensed Italic
46.   Bodoni MT Italic
47.   Bodoni MT Poster Compressed
48.   Book Antiqua
49.   Book Antiqua Bold
50.   Book Antiqua B old Italic
51.   Book Antiqua Italic
52.   Bookman Old Style
53.   Bookman Old Style Bold
54.   Bookman Old Style Bold Italica
55.   Bookman Old Style Italic
56.   Bookshelf Symbol 7
57.   Bradley Hand ITC
58.   Britannic Bold
59.   Broadway
60.   Brush Script MT Italic
61.   Calibri
62.   Calibri Bold
63.   Calibri Bold Italica
64.   Calibri Italic
65.   Calibri Light
66.   Calibri Light Italic
67.   Californian FB
68.   Californian FB Bold
69.   Californian FB Italic
70.   Calisto MT
71.   Calisto MT Bold
```

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72.   Calisto MT Bold ltalica
73.   Calisto MT Italic
74.   Cambria
75.   Cambria Bold
76.   Cambria Bold Italic
77.   Cambria Italic
78.   Cambria Math
79.   Candara
80.   Candara Bold
81.   Candara Bold Italic
82.   Candara Italic
83.   Candara Light
84.   Candara Light Italic
85.   Castellar
86.   Centaur
87.   Century
88.   Century Gothic
89.   Century Gothic Bold
90.   Century Gothic B old Italic
91.   Century Gothic Italic
92.   Century Schoolbook
93.   Century Schoolbook Bold
94.   Century Schoolbook Bold Italic
95.   Century Schoolbook Italica
96.   Chiller
97.   Colonna MT
98.   Comic Sans MS
99.   Comic Sans MS Bold
100.   Comic Sans MS Bold Italic
101.   Comic Sans MS Italic
102.   Consolas
103.   Consolas Bold
104.   Consolas Bold Italic
105.   Consolas Italic
106.   Constantia
107.   Constantia Bold
108.   Constantia Bold Italic
109.   Constantia Italic
110.   Cooper BIack
111.   Copperplate Gothic Bold
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```
112.   Copperplate Gothic Light
113.   Corbel
114.   Corbel Bold
115.   Corbel Bold Italic
116.   Corbel Italic
117.   Corbel Light
118.   Corbel Light Italic
119.   Courier New
120.   Courier New Bold
121.   Courier New Bold Italic
122.   Courier New Italic
123.   Curlz MT
124.   Dubai Bold
125.   Dubai Light
126.   Dubai Medium
127.   Dubai Regular
128.   Ebrima
129.   Ebrima Bold
130.   Edwardian Script ITC
131.   Elephant
132.   Elephant Italic
133.   Engravers MT
134.   Eras Bold ITC
135.   Eras Demi ITC
136.   Eras Light ITC
137.   Eras Medium ITC
138.   Felix Titling
139.   Footlight MT Light
140.   Forte
141.   Franklin Gothic Book
142.   Franklin Gothic Book Italic
143.   Franklin Gothic Demi
144.   Franklin Gothic Demi Cond
145.   Franklin Gothic Demi Italic
146.   Franklin Gothic Heavy
147.   Franklin Gothic Heavy Italic
148.   Franklin Gothic Medium
149.   Franklin Gothic Medium Cond
150.   Franklin Gothic Medium Italici
151.   Freestyle Script
```

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152.   French Script MT
153.   Gabriola
154.   Gadugi
155.   Gadugi Bold
156.   Garamond
157.   Garamond Bold
158.   Garamond Italic
159.   Georgia
160.   Georgia Bold
161.   Georgia Bold Italic
162.   Georgia Italic
163.   Gigi
164.   Gill Sans MT
165.   Gill Sans MT Bold
166.   Gill Sans MT Bold Italic
167.   Gill Sans MT Condensed
168.   Gill Sans MT Ext Condensed Bold
169.   Gill Sans MT Italic
170.   Gill Sans Ultra Bold
171.   Gill Sans Utra Bold Condensed
172.   Gloucester MT Extra Condensed
173.   Goudy Old Style
174.   Goudy Old Style Bold
175.   Goudy Old Style Italic
176.   Goudy Stout
177.   Hettenschweiler
178.   Harlow Solid Italic
179.   Harrington
180.   High Tower Text
181.   High Tower Text Italica
182.   HoloLens MDL2 Assets
183.   Impact
184.   Imprint MT Shadow
185.   Informal Roman
186.   Ink Free
187.   Javanese Text
188.   Jokerman
189.   Juice ITC
190.   Kristen ITC
191.   Kunstler Script
```

```
192.  Leelawadee
193.  Leelawadee Bold
194.  Leelawadee UI
195.  Leelawadee UI Bold
196.  Leelawadee UI Semilight
197.  Lucida Bright
198.  Lucida Bright Demibold
199.  Lucida Bright Demibold Italic
200.  Lucida Bright Italic
201.  Lucida alligraphy Italic
202.  Lucida Console
203.  Lucida Fax Demibold
204.  Lucida Fax Demibold Italica
205.  Lucida Fax Italic
206.  Lucida Fax Regular
207.  Lucida Handwriting Italic
208.  Lucida Sans Demibold Italic
209.  Lucida Sans Demibold Roman
210.  Lucida Sans Italic
211.  Lucida Sans Regular
212.  Lucida Sans Typewriter Bold
213.  Lucida Sans Typewriter Bold Oblique
214.  Lucida Sans Typewriter Oblique
215.  Lucida Sans Typewriter Regular
216.  Lucida Sans Unicode
217.  Magneto Bold
218.  Maiandra GD
219.  Malgun Gothic
220.  Malgun Gothic Bold
221.  Malgun Gothic Semilight
222.  Matura MT Script Capitals
223.  Merriweather Black
224.  Merrwe ather Light
225.  Merriwe ather Regular
226.  Microsoft Himalaya
227.  Microsoft JhengHei
228.  Microsoft JhengHei Bold
229.  Microsoft JhengHei Light
230.  Microsoft JhengHei UI
231.  Microsoft JhengHei UI Bold
```

```
232.  Microsoft JhengHei UI Light
233.  Microsoft New Tai Lue
234.  Microsoft New Tai Lue Bold
235.  Microsoft PhagsPa
236.  Microsoft PhagsPa Bold
237.  Microsoft Sans Serif
238.  Microsoft Tai Le
239.  Microsoft Tai Le Bold
240.  Microsoft Uighur
241.  Microsoft Uighur Bold
242.  Microsoft Yahei UI
243.  Microsoft YaHei UI Light
244.  Microsoft Yi Baiti
245.  MingLiU_HKSCS-ExtB
246.  MingLiU-ExtB
247.  Mistral
248.  Modern No.20
249.  Mongolian Baiti
250.  Monotype Corsiva
251.  MS Gothic
252.  MS Outlook
253.  MS PGothic
254.  MS Reference Sans Serif
255.  MS Reference Specialty
256.  MS UI Gothic
257.  MT Extra
258.  MIV Boli
259.  Myanmar Text
260.  Myanmar Text Bold
261.  Niagara Engraved
262.  Niagara Solid
263.  Nirmala UI
264.  Nirmala UI Bold
265.  Nirmala UI Sermilight
266.  OCR A Extended
267.  Old English Text MT
268.  Onyx
269.  Open Sans
270.  Open Sans Extrabold
271.  Open Sans Light
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272.   Open Sans Semibold
273.   Palace Script MT
274.   Palatino Linotype
275.   Palatino Linotype Bold
276.   Palatino Linotype Bold ltalic
277.   Palatino Linotype Italic
278.   Papyrus
279.   Parchment
280.   Perpetua
281.   Perpetua Bold
282.   Perpetua Bold Italic
283.   Perpetua Italic
284.   Perpetua Titling MT Bold
285.   Perpetua Titling MT Light
286.   Playbill
287.   PMlingLiU-ExtB
288.   Poor Richard
289.   Pristina
290.   Rage Italic
291.   Raleway
292.   Raleway Black
293.   Raleway ExtraBold
294.   Raleway ExtraLight
295.   Raleway Light
296.   Raleway Medium
297.   Raleway SemiBold
298.   Raleway Thin
299.   Ravie
300.   Roboto
301.   Roboto Black
302.   Roboto Light
303.   Roboto Medium
304.   Roboto SIab Light
305.   Roboto Thin
306.   Rockwell
307.   Rockwell Bold
308.   Rockwell Bold Italic
309.   Rockwell Condensed
310.   Rockwell Condensed Bold
311.   Rockwell Extra Bold
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312.    Rockwell Italic
313.    Script MT Bold
314.    Segoe MDL2 Assets
315.    Segoe Print
316.    Segoe Print B old
317.    Segoe Script
318.    Segoe Script Bold
319.    Segoe UI
320.    Segoe UI BIack
321.    Segoe UI Black Italic
322.    Segoe UI Bold
323.    Segoe UI Bold Italic
324.    Segoe UI Emoji
325.    Segoe UI Historic
326.    Segoe UI Italic
327.    Segoe UI Light
328.    Segoe UI Light ltalic
329.    Segoe UI Semibold
330.    Segoe UI Semibold Italic
331.    Segoe UI Sermilight
332.    Segoe UI Semilight Italic
333.    Segoe UI Symbol
334.    Showcard Gothic
335.    SimSun ExtB
336.    Sitka Banner
337.    Sitka Banner Bold
338.    Sitka Banner Bold Italic
339.    Sitka Banner Italici
340.    Sitka Display
341.    Sitka Display Bold
342.    Sitka Display Bold Italic
343.    Sitka Display ltalica
344.    Sitka Heading
345.    Sitka Heading Bold
346.    Sitka Heading Bold Italic
347.    Sitka He ading Italica
348.    Sitka Small
349.    Sitka Small Bold
350.    Sitka Small Bold Italica
351.    Sitka Small ltalic
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352.  Sitka Subheading
353.  Sitka Subheading Bold
354.  Sitka Subheading Bold Italic
355.  Sitka Subheading Italic
356.  Sitka Text
357.  Sitka Text Bold
358.  Sitka Text Bold Italic
359.  Sitka Text Itali
360.  Snap ITC
361.  Stencil
362.  Sylfaen
363.  Symbol
364.  Tahoma
365.  Tahoma Bold
366.  TeamViewer1 3
367.  Tempus Sans ITC
368.  Times New Roman
369.  Times New Roman Bold
370.  Times New Roman B old Italic
371.  Times New Roman Italic
372.  Trebuchet MS
373.  Trebuchet MS Bold
374.  Trebuchet MS Bold ltalic
375.  Trebuchet MS Italic
376.  Tw Cen MT
377.  Tw Cen MT Bold
378.  Tw Cen MT Bold Italic
379.  Tw Cen MT Condensed
380.  Tw Cen MT Condensed Bold
381.  Tw Cen MT Condensed Extra Bold
382.  Tw Cen MT Italici
383.  Verdana
384.  Verdana Bold
385.  Verdana Bold Italic
386.  Verdana Italic
387.  Viner Hand ITC
388.  Vivaldi Italic
389.  Vladimir Script
390.  Webdings
391.  Wide Latin
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392.    Wingdings
393.    Wingdings 2
394.    Wingdings 3
395.    Yu Gothic Bold
396.    Yu Gothic Light
397.    Yu Gothic Medium
398.    Yu Gothic Regular
399.    Yu Gothic UI Bold
400.    Yu Gothic Ul Light
401.    Yu Gothic UI Regular
402.    Yu Gothic UI Sermibold
403.    Yu Gothic UI Sermilight
404.    Equilateral Line
405.    Equilateral Line Light
406.    Founder Typeface Shu
407.    Founder Typeface Yao
408.    Fang Song
409.    Heiti
410.    Huawen Caiyun
411.    Huawen Fang Song
412.    Huawen Amber
413.    Huawen Kaiti
414.    Huawen Lishu
415.    Huawen Songti
416.    Huawen Xihui
417.    Huawen Xinwei
418.    Huawen Xingkai
419.    Huawen Zhong Song
420.    Kaiti
421.    Lishu
422.    Songti
423.    Microsoft YaHei
424.    Microsoft YaHei Light
425.    New Songti
426.    Youyuan
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Other Limits

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1. 1. In-Class Recording

- A room can only initiate **1** in-class recording task at a time.
- A single whiteboard application can run up to **100** recording tasks simultaneously. If special scenarios require quota adjustments, please submit a work order to apply.

2. Whiteboard Streaming

- A room can only initiate **1** whiteboard streaming task at a time.
- A single whiteboard application can run up to **100** stream push tasks simultaneously. If special scenarios require quota adjustments, please submit a work order to apply.

3.Document Transcoding

A single whiteboard application can run up to **20** dynamic transcoding tasks and up to **40** static transcoding tasks simultaneously. If you need to adjust the quota for special scenarios, please submit a ticket to apply.

4.Number of Whiteboard Pages

- The maximum number of whiteboard pages in a single room is **2,000 pages**. If you need to adjust the quota for special scenarios, please submit a ticket to apply.
- Calculation Rules for the Number of Whiteboard Pages in a Single Whiteboard Room:
  - A whiteboard room will have one default whiteboard page, which cannot be deleted.
  - Adding a whiteboard page (createBoard) will create one whiteboard page; deleting a whiteboard page (deleteBoard) will delete one.
  - Static transcoding and dynamic transcoding (addTranscodeFile) are based on the input parameter pages. If pages is 10, the file will create 10 whiteboard pages. Deleting the file (deleteFile) will delete 10 pages.
  - A video file (addVideoFile) creates one whiteboard page; deleting the file (deleteFile) will delete one page.
  - An H5 file (addH5File) creates one whiteboard page; deleting the file (deleteFile) will delete one page.
  - An image group file (addImagesFile) is based on the length of the input parameter urls array. If the length of urls is 10, the file will create 10 whiteboard pages. Deleting the file (deleteFile) will delete 10 pages.

5. In-Class Data Storage

The rules for in-class data storage are as follows:

- In-class data storage is based on days, with a default retention period of 7 days (calculated from the last operation data in the class, counting forward 7 days. If there is no class data operation within these 7 days, the class data will be cleared).
  - Scenario 1: Classroom A: The last operation time for classroom data was: 2022-04-01 12:00:00; if there is no operation data for this classroom within 7 days, the classroom data will be cleaned up on 2022-04-08 12:00:00;
  - Scenario 2: Classroom B: The first last operation time for classroom data was: 2022-04-01 12:00:00; the second last operation time for this classroom was: 2022-04-06 13:00:00; if there is no operation data for this classroom within the next 7 days, the classroom data will be cleaned up on 2022-04-13 13:00:00;
- Data that is cleaned up cannot be recovered.

6. Public Storage Bucket Usage Restrictions

If **bucket configuration** is not performed, the resource files generated by document transcoding and whiteboard recording will be stored in the **public storage bucket of Interactive Whiteboard**. The storage time for transcoding results is **7 days**, and the storage time for video files is **3 days**, as shown in the table below:

Resource type	Validity Period
Recording Video File	3 Days
Document transcoding result	7 Days

After the storage validity period, resource files in the bucket will be **automatically deleted**. It is recommended to refer to this document for **bucket configuration** before using transcoding or recording features, to facilitate managing the access permissions and lifecycle of resource files.

7. Whiteboard Interactive Graffiti

If you use IM as the signaling channel for whiteboard interactive graffiti, the following limits apply to IM:

1. For applications created in the interactive whiteboard console, the default package is **whiteboard experience edition**, maximum number of non-live group members: 20 members/group, free peak group quantity: 100 groups/month.
2. For applications imported from IM, please refer to IM use limit for specific use limits.

3. You can upgrade the application type from the IM console. Refer to the document Creating and Upgrading an Application for the operation guide.