

聊天重放-示例

此处提供一个 聊天室模块-聊天重放 的基础使用示例，为了实现该功能，该示例还包含播放器和聊天室的基础内容

更多内容请结合文档参考 [查看页 SDK 及其配套的开源项目](#)

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta
      name="viewport"
      content="width=device-width, initial-scale=1.0"
    />
    <title>Chat-Replay</title>
    <style>
      html,
      body {
        padding: 0;
        margin: 0;
      }

      .demo-intro {
        padding: 0 16px;
      }

      .demo-player-container {
        width: 640px;
        height: 360px;
        padding: 16px;
        margin-bottom: 80px;
      }

      #player {
        width: 100%;
        height: 100%;
        position: relative;
      }

      .demo-player-control {
        display: flex;
        margin-top: 24px;
        gap: 12px;
      }

      .demo-chat-container {
        min-width: 640px;
        max-width: 80vw;
        height: 360px;
        padding: 16px;
      }

      .demo-chat__list {
        width: 100%;
        height: 100%;
        overflow-y: auto;
      }

      .demo-chat-control {
        display: flex;
        margin-top: 24px;
      }
```

```

        gap: 12px;
    }
</style>
</head>
<body>
    <div class="demo-intro">
        <p>说明</p>
        <ul>
            <li>聊天重放是模拟直播场景，所以不建议在聊天重放的状态下支持观众发言</li>
            <li>
                获取聊天历史消息时，并不是真的去做分页查询，从而加载上一页数据和下一页数据，而是根据对应的一条聊天消息，加载它的
                上一批数据和下一批数据，所以此处不做完整示例，请自行根据"虚拟列表"的机制来实现上下滚动加载聊天记录的功能
            </li>
        </ul>
    </div>

```

```

<div class="demo-player-container">
    <div id="player"></div>
    <div class="demo-player-control">
        <button class="demo-player-control__play-btn">播放</button>
        <button class="demo-player-control__pause-btn">暂停</button>
    </div>
</div>

```

```

<div class="demo-chat-container">
    <div class="demo-chat-input-control">
        <input
            class="demo-chat-input-control__input"
            type="text"
            placeholder="聊天重放不支持发送消息"
        />
        <button
            class="demo-chat-input-control__send-btn"
            disabled
        >
            发送普通文本消息
        </button>
        <button
            class="demo-chat-input-control__send-btn--custom"
            disabled
        >
            发送自定义消息
        </button>
        <button
            class="demo-chat-input-control__send-like"
            disabled
        >
            点赞：
            <span id="like-count">0</span>
        </button>
        <button
            class="demo-chat-input-control__load-prev-btn"
            disabled
        >
            加载上一页
        </button>
    </div>

```

```

<button
  class="demo-chat-input-control__load-next-btn"
  disabled
>
  加载下一页
</button>
<br />
</div>
<ul class="demo-chat__list"></ul>
</div>

<!-- 此处使用在线JS链接演示，开发者可使用npm包形式安装 -->
<script src="https://websdk.videocc.net/live-watch-sdk/latest/lib/polyv-live-watch-sdk.umd.js"></script>
<script>
  const {
    createWatchCore,

    PolyvWatchCoreEvents,
    ChannelEvents,
    PlayerEvents,
    ChatEvents,

    LiveStatus,
    ChatMsgReplayStatus,
    ChatReplayRequestHistoryMode,
    ChatMsgSource,
  } = window.PolyvLiveWatchSDK;

  /** 全局变量 */
  var globalStore = {
    watchCore: null, // 观看页核心实例
    playerInited: false, // 播放器是否初始化完成
    playStatus: false, // 播放状态
    liveStatus: LiveStatus.End, // 直播流状态
    chatConnected: false, // 是否连接聊天室
    chatHistoryData: [], // 聊天历史数据
  };

  /**
   * 绑定播放器 UI 事件
   */
  function bindPlayerUIEvent(watchCore) {
    const $playBtn = document.querySelector('.demo-player-control__play-btn');
    const $pauseBtn = document.querySelector('.demo-player-control__pause-btn');

    $playBtn.addEventListener('click', () => {
      if (!globalStore.playerInited) return;

      watchCore.player.play();
    });

    $pauseBtn.addEventListener('click', () => {
      if (!globalStore.playerInited) return;

      watchCore.player.pause();
    });
  }

```

```

}

/**
 * 绑定聊天室 UI 事件
 */
function bindChatUIEvent(watchCore) {
  const $input = document.querySelector('.demo-chat-input-control__input');
  const $sendBtn = document.querySelector('.demo-chat-input-control__send-btn');
  const $customSendBtn = document.querySelector('.demo-chat-input-control__send-btn--custom');
  const $sendLike = document.querySelector('.demo-chat-input-control__send-like');
  const $loadPrevBtn = document.querySelector('.demo-chat-input-control__load-prev-btn');
  const $loadNextBtn = document.querySelector('.demo-chat-input-control__load-next-btn');

  $sendBtn.addEventListener('click', () => {
    if (!globalStore.chatConnected) return;

    const content = $input.value.trim();
    if (!content) return;

    $input.value = '';
    // 发送文本消息
    watchCore.chat.sendSpeakMsg({
      content,
    });
  });

  $customSendBtn.addEventListener('click', () => {
    if (!globalStore.chatConnected) return;

    const content = $input.value.trim();
    if (!content) return;

    $input.value = '';
    // 发送自定义消息
    watchCore.chat.sendCustomMessage({
      data: { content },
    });
  });

  $sendLike.addEventListener('click', () => {
    if (!globalStore.chatConnected) return;

    // 发送点赞消息
    // 注意：此处仅作示例，真实场景请使用节流机制，避免高并发
    watchCore.chat.sendLike(1);
  });

  // 加载上一页数据
  $loadPrevBtn.addEventListener('click', loadPrevChatHistory);

  // 加载下一页数据
  $loadNextBtn.addEventListener('click', loadNextChatHistory);
}

/**
 * 绑定 UI 事件

```

```

*/
function bindUIEvent(watchCore) {
  bindPlayerUIEvent(watchCore);
  bindChatUIEvent(watchCore);
}

/**
 * 绑定 watch-sdk 中和 player-module 相关的事件
 */
function bindPlvPlayerModuleEvents(watchCore) {
  // 监听播放器-初始化事件
  watchCore.player.eventEmitter.on(PlayerEvents.PlayerInitied, () => {
    const playerInfo = watchCore.player.getPlayerInfo();
    globalStore.playerInitied = playerInfo.playerInitied;

    console.warn('播放器初始化完成');
    console.log('当前是否使用无延迟播放器: ', playerInfo.isLowLatency);
  });

  // 监听播放器-播放信息变化
  watchCore.player.eventEmitter.on(PlayerEvents.PlayerInfoChange, ({ playerInfo }) => {
    globalStore.playStatus = playerInfo.playStatus;
  });

  // 监听播放器-播放时间改变
  watchCore.player.eventEmitter.on(PlayerEvents.TimeUpdate, params => {
    if (getChatReplayEnabled(watchCore)) {
      // 参考文档: https://help.polyv.net/#/live/js/new\_sdk/live\_watch\_sdk/articles/modules/chat/chat-replay?id=\_25-%e5%a4%84%e7%90%86%e8%81%8a%e5%a4%a9%e6%b6%88%e6%81%af%e9%87%8d%e6%94%be
      watchCore.chat.processChatMsgReplay(params);
    }
  });

  // 监听播放器-播放事件
  watchCore.player.eventEmitter.on(PlayerEvents.PlayerPlaying, () => {
    console.warn('播放回调, 播放视频中');
  });

  // 监听播放器-暂停事件
  watchCore.player.eventEmitter.on(PlayerEvents.PlayerPause, () => {
    console.warn('暂停回调, 已暂停视频播放');
  });
}

/**
 * 绑定 watch-sdk 中和 chat-module 相关的事件
 */
function bindPlvChatModuleEvents(watchCore) {
  // 监听聊天室-超出直播间最大在线人数
  watchCore.chat.eventEmitter.on(ChatEvents.OverMaxOnlineCount, () => {
    alert('已超出直播间最大在线人数 ! ');
  });

  // 监听聊天室-点赞数回调
  watchCore.chat.eventEmitter.on(ChatEvents.ChatLikeCountChange, data => {
    console.log('实时点赞数: ', data.realtimeLikes);
  });
}

```

```

    $likeCount = document.querySelector('#like-count');
    $likeCount.innerText = data.realtimeLikes;
  });

  // 监听聊天室-聊天消息事件
  watchCore.chat.eventEmitter.on(ChatEvents.ChatMessage, ({ chatMsg }) => {
    if (
      chatMsg.msgSource === ChatMsgSource.CustomerMessage ||
      chatMsg.msgSource === ChatMsgSource.CustomMessage
    ) {
      console.warn('自定义聊天消息回调: ', chatMsg);
    } else {
      console.warn('普通聊天消息回调: ', chatMsg);
    }

    renderMsgList([chatMsg]);
  });

  // 监听聊天室-聊天消息重放-重放状态变更
  watchCore.chat.eventEmitter.on(ChatEvents.ChatMsgReplayStatusChange, params => {
    console.log('聊天重放状态变更: ', params.status);
    if (params.status === ChatMsgReplayStatus.Wait) {
      console.warn('聊天重放数据准备中');
    }

    if (params.status === ChatMsgReplayStatus.InitSuccess) {
      console.warn('正在聊天重放中');
    }
  });

  //监听聊天室-聊天消息重放-重新加载
  watchCore.chat.eventEmitter.on(ChatEvents.ChatMsgReplayReload, () => {
    console.warn('聊天消息重放-重新加载');
    // 重新渲染聊天消息列表
    initChatMsgRender();
  });
}

/**
 * 绑定 watch-sdk 事件
 */
function bindWatchSdkEvent(watchCore) {
  // 监听核心 - setup 钩子
  watchCore.eventEmitter.on(PolyvWatchCoreEvents.WatchCoreSetup, () => {
    console.info('观看页核心实例安装完成');
  });

  // 监听核心 - 连接聊天室
  watchCore.eventEmitter.on(PolyvWatchCoreEvents.WatchCoreConnected, () => {
    console.info('观看页核心实例连接聊天室成功');
    globalStore.chatConnected = true;
  });

  // 监听直播流变化
  watchCore.channel.eventEmitter.on(ChannelEvents.LiveStatusChange, ({ liveStatus }) => {
    if (globalStore.liveStatus === liveStatus) return;
  });
}

```

```

globalStore.liveStatus = liveStatus;
console.warn('流状态变化', liveStatus);

if (liveStatus === LiveStatus.Live) {
  console.warn('开始直播，请自行改成获取正常聊天历史记录的逻辑后，再重新加载播放器和聊天室');
  return;
}

// 直播流变化时重新创建播放器
if (globalStore.playerInited) {
  globalStore.playerInited = false;
  createPlayer(watchCore);
}
});

bindPlvPlayerModuleEvents(watchCore);
bindPlvChatModuleEvents(watchCore);
}

/**
 * 绑定事件
 */
function bindEvent(watchCore) {
  bindUIEvent(watchCore);
  bindWatchSdkEvent(watchCore);
}

/**
 * 安装核心实例和授权
 */
async function setupWatchCore(watchCore) {
  await watchCore.setup();

  if (!watchCore.auth.isAuthorized()) {
    // 观众点击观看页入口或执行观看条件授权，如：无条件授权
    const result = await watchCore.auth.verifyNoneAuth();
    if (!result.success) {
      console.error('授权失败了!! ', result.failReason);
      return;
    }

    // 当观众执行观看条件授权成功，需要重新安装 watchCore
    await watchCore.setup();
  }
}

/**
 * 获取后台是否启用聊天回放
 */
function getChatReplayEnabled(watchCore) {
  const playbackTarget = watchCore.playback.getCurrentPlaybackTarget();
  if (!playbackTarget) return false;

  return playbackTarget.chatReplayEnabled;
}

```

```

/**
 * 创建播放器
 */
async function createPlayer(watchCore) {
  // 获取回放选项, 此次仅以单个回放为例
  function __getPlayerPlaybackOptions() {
    const liveStatus = watchCore.channel.getLiveStatus();

    if (liveStatus !== LiveStatus.Playback) return;

    const playbackTarget = watchCore.playback.getCurrentPlaybackTarget();
    if (!playbackTarget) return;

    return playbackTarget.playbackOptions;
  }

  // 具体文档参数见:
https://help.polyv.net/index.html#/live/miniprogram/live\_watch\_miniprogram\_sdk/articles/modules/player/player?id=classmethoddoc\_playermodule\_setupplayer
  await watchCore.player.setupPlayer({
    container: '#player',
    lowLatency: false, // 是否无延迟播放
    showController: true, // 是否显示播放器控制栏
    playbackOptions: __getPlayerPlaybackOptions(), // 回放参数
  });
}

/**
 * 渲染聊天列表
 * @warn 此处简单的示例, 真实场景请做好虚拟列表来处理高并发场景
 */
function renderMsgList(data, reset = false) {
  const $msgList = document.querySelector('.demo-chat__list');
  const fragment = document.createDocumentFragment();
  data
    // 此处只处理了发言类型的消息
    .filter(chatMsg => chatMsg.msgSource === ChatMsgSource.Speak)
    .forEach(chatMsg => {
      const li = document.createElement('li');
      li.textContent = `${chatMsg.user.nick}: ${chatMsg.content || ''}`;
      fragment.appendChild(li);
    });

  if (reset) {
    $msgList.innerHTML = '';
  }

  $msgList.appendChild(fragment);
}

/**
 * 请求聊天重放历史记录
 */
async function requestChatHistory(reqMode) {
  const { watchCore, chatHistoryData } = globalStore;

```

```

// 此处仅作参考
// 如果要获取下一批历史记录，一般是获取当前历史记录的最后一条消息，然后请求下一批数据
// 如果要获取上一批历史记录，一般是获取当前历史记录的第一条消息，然后请求上一批数据
const reMsg = (() => {
  const historyData = chatHistoryData;
  if (reqMode === ChatReplayRequestHistoryMode.Next) {
    return historyData[historyData.length - 1];
  }

  if (reqMode === ChatReplayRequestHistoryMode.Pre) {
    return historyData[0];
  }

  return undefined;
})();

const data = await watchCore.chat.getChatMsgReplayHistoryList({
  mode: reqMode,
  replayMsg: reMsg,
  count: 20,
});

return data;
}

/**
 * 加载上一页历史聊天消息
 */
async function loadPrevChatHistory() {
  const historyLength = globalStore.chatHistoryData.length;
  const watchCore = globalStore.watchCore;
  if (historyLength === 0 || !watchCore) return;

  const result = await requestChatHistory(ChatReplayRequestHistoryMode.Pre);

  console.warn('加载上一页历史聊天消息: ', result);

  // globalStore.chatHistoryData = result.concat(globalStore.chatHistoryData);
  // renderMsgList(globalStore.chatHistoryData, true);
}

/**
 * 加载下一页历史聊天消息
 */
async function loadNextChatHistory() {
  const historyLength = globalStore.chatHistoryData.length;
  const watchCore = globalStore.watchCore;
  if (historyLength === 0 || !watchCore) return;

  const result = await requestChatHistory(ChatReplayRequestHistoryMode.Next);

  console.warn('加载下一页历史聊天消息: ', result);

  // globalStore.chatHistoryData = globalStore.chatHistoryData.concat(result);
  // renderMsgList(result);
}

```

```

}

/**
 * 初始化聊天消息渲染
 */
async function initChatMsgRender() {
  // 获取聊天重放中的历史记录
  const historyData = await requestChatHistory(ChatReplayRequestHistoryMode.Init);

  globalStore.chatHistoryData = historyData;

  renderMsgList(historyData, true);
}

/**
 * 创建聊天列表
 */
async function createChatList(watchCore) {
  if (!getChatReplayEnabled(watchCore)) {
    console.warn('请使用一个开启聊天重放的频道');
    return;
  }

  console.warn('createChatList');
  await watchCore.chat.initChatMsgReplay();
  await initChatMsgRender();
}

/**
 * 设置当前回放对象
 */
function setCurrentPlaybackTarget(watchCore) {
  const liveStatus = watchCore.channel.getLiveStatus();
  if (liveStatus !== LiveStatus.Playback) return;

  const playbackTarget = watchCore.playback.getSinglePlaybackTarget();
  watchCore.playback.setCurrentPlaybackTarget(playbackTarget);
}

/**
 * 入口函数
 */
async function main() {
  // 创建核心，文档见：
https://help.polyv.net/index.html#/live/miniprogram/live\_watch\_miniprogram\_sdk/articles/core/sdk-core
  const watchCore = createWatchCore({
    channelId: 'xxx', // 请使用一个"公开观看"并开启"聊天重放"的频道
    userInfo: {
      // 用户信息
      userId: 'polyv-123456',
      nick: 'polyv-测试昵称',
      actor: 'polyv-测试头衔',
    },
  });

  globalStore.watchCore = watchCore;

```

```
// 绑定相关事件
bindEvent(watchCore);
// 安装核心
await setupWatchCore(watchCore);

// 连接聊天室
watchCore.connect();

// 设置当前回放对象，注意，在创建播放器和聊天列表前需要先设置当前的回放对象，确保后面流程正常
setCurrentPlaybackTarget(watchCore);
// 创建播放器
createPlayer(watchCore);
// 创建聊天列表
createChatList(watchCore);
}

main();
</script>
</body>
</html>
```