



Gst-play

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## 1 Overview

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**gst-play** (gst-play-1.0) is a GStreamer command line utility available with GStreamer-1.X.

This utility plays multimedia content using the Playbin element as a basic player. It takes as an input either individual files, URLs or a whole directories (in this case it will recurse into sub-directories as well).



## 2 Usage

gst-play accepts the following options:

```
Board $> gst-play-1.0 --help
```

```
Usage:
  gst-play-1.0 [OPTION?] FILE1|URI1 [FILE2|URI2] [FILE3|URI3] ...

Help Options:
  -h, --help           Show help options
  --help-all          Show all help options
  --help-gst           Show GStreamer Options

Application Options:
  -v, --verbose        Output status information and property notifications
  --flags              Control playback behaviour setting playbin 'flags'
property
  --version            Print version information and exit
  --videosink          Video sink to use (default is autovideosink)
  --audiosink          Audio sink to use (default is autoaudiosink)
  --gapless            Enable gapless playback
  --shuffle            Shuffle playlist
  --no-interactive     Disable interactive control via the keyboard
  --volume             Volume
  --playlist           Playlist file containing input media files
  -q, --quiet          Do not print any output (apart from errors)
```

The user can control the playback through the host terminal keyboard. Press **k** to list the available keyboard shortcuts once the content is playing:

```
<space>  Pause/Resume playback
<up/down arrows>
          Volume up/down

<left/right arrows>
          Seek back/forward

+/-      Increase/decrease playback rate
d        Reverse playback direction
t        Cycle through trick modes
a        Switch audio track
s        Switch subtitle track
v        Switch video track
>        Skip to next item in playlist
<        Go back to previous item in playlist
q, ESC  Quit
```



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Information provided by gst-play Ubuntu manual



## 3 Examples



Don't have `/usr/local/demo/media/ST2297_visionv3.webm`? Follow instructions in [this article](#).



To hear audio track, depending on the considered board, an audio headset must be plugged on

- the STM32MP157x-EV1 Evaluation board CN5 jack connector
- the STM32MP157x-DKx Discovery kit CN10 jack connector

### 3.1 Basic audio/video playback

```
Board $> gst-play-1.0 /usr/local/demo/media/ST2297_visionv3.webm
```

### 3.2 Video only playback

```
Board $> gst-play-1.0 /usr/local/demo/media/ST2297_visionv3.webm --audiosink=fakesink
```

Audio rendering is disabled, but audio decoding continues.

### 3.3 Playlist playback

```
Board $> gst-play-1.0 /usr/local/demo/media/ST2297_visionv3.webm /usr/local/demo/media/ST2297_visionv3.webm /usr/local/demo/media/ST2297_visionv3.webm /usr/local/demo/media/ST2297_visionv3.webm
```

Press **">"** key to play the next file, **"<"** key to play the previous one.

### 3.4 Loop or repeat the same video

This option is not currently available within `gst-play` but here are some alternatives:

- Playlist with the same video over and over. In the example below, the same video file is played 3 times. The video file can be added as many times as needed:

```
Board $> gst-play-1.0 /usr/local/demo/media/ST2297_visionv3.webm /usr/local/demo/media/ST2297_visionv3.webm /usr/local/demo/media/ST2297_visionv3.webm
```

- For loop (here 1000 times):

```
Board $> for i in `seq 1 1000`;do gst-play-1.0 /usr/local/demo/media/ST2297_visionv3.webm; done
```



### 3.5 Seek while playing

```
Board $> gst-play-1.0 /usr/local/demo/media/ST2297_visionv3.webm /usr/local/demo/media
/ST2297_visionv3.webm /usr/local/demo/media/ST2297_visionv3.webm /usr/local/demo/media
/ST2297_visionv3.webm
```

Press "right arrow key" to seek forward, "left arrow key" to seek backward.

### 3.6 Change playback speed

```
Board $> gst-play-1.0 /usr/local/demo/media/ST2297_visionv3.webm
```

Press "+" key to increase rate and "-" key to decreased it.

### 3.7 HTTP streaming



An internet connection is required, for example by plugging an Ethernet cable on

- the STM32MP157x-EV1 Evaluation board CN3 Ethernet connector
- the STM32MP157x-DKx Discovery kit CN8 Ethernet connector

```
Board $> gst-play-1.0 https://github.com/STMicroelectronics/meta-st-openstlinux/blob/thud
/recipes-samples/demo/demo-launcher/media/ST2297_visionv3.webm?raw=true
```

### 3.8 Audio/video playback on HDMI TV



Plug first HDMI TV cable as described in [How to display on HDMI](#) article

Switch audio output on HDMI:

```
Board $> pacmd set-card-profile 0 output:hdm-stereo
```

Than play the video:

```
Board $> gst-play-1.0 /usr/local/demo/media/ST2297_visionv3.webm
```



### 3.9 Audio/video playback in background

Option **--no-interactive** must be set in order to be able to play in background:

```
Board $> gst-play-1.0 /usr/local/demo/media/ST2297_visionv3.webm --no-interactive &
[1] 14998
root@stm32mp1:~# Now playing /av_h264_main_640x480_30fps_1000kbps_aac-lc_192kbps.mp4
```

Then to stop playback:

```
Board $> killall gst-play-1.0
```

or

```
Board $> fg
<CTRL+C>
```

High-Definition Multimedia Interface (HDMI standard)