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## Gst-discoverer



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## Contents

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A quality version of this page, approved on *7 October 2019*, was based off this revision.



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## 1 Overview

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**gst-discoverer** (gst-discoverer-1.0) is a GStreamer command line utility.

This utility can be used to get information on multimedia content such as images, audio/video files.



## 2 Usage

gst-discoverer accepts the following options:

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

```
gst-discoverer-1.0 --help
Usage:
  gst-discoverer-1.0 [OPTION?] - discover files synchronously with GstDiscoverer

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

Application Options:
  -a, --async                Run asynchronously
  -t, --timeout=T           Specify timeout (in seconds, default 10)
  -c, --toc                 Output TOC (chapters and editions)
  -v, --verbose              Verbose properties
```

By default a short level of information is given including the container format, the audio and the video codecs:

```
Board $> gst-discoverer-1.0 /usr/local/demo/media/ST2297_visionv3.webm
Analyzing file:///usr/local/demo/media/ST2297_visionv3.webm
Done discovering file:///usr/local/demo/media/ST2297_visionv3.webm

Topology:
  container: WebM
  audio: Vorbis
  video: VP8

Properties:
  Duration: 0:04:02.413000000
  Seekable: yes
  Live: no
  Tags:
    container format: Matroska
    language code: en
    application name: Lavc56.60.100
    encoder: Xiph.Org libVorbis I 20150105 (????)
    encoder version: 0
    audio codec: Vorbis
    nominal bitrate: 112000
    bitrate: 112000
    video codec: On2 VP8
```

The **-v** option gives more details such as the number of audio channels, the audio sample rate, the video width and height or even the pixel aspect ratio:

```
Board $> gst-discoverer-1.0 -v /usr/local/demo/media/ST2297_visionv3.webm
Analyzing file:///usr/local/demo/media/ST2297_visionv3.webm
Done discovering file:///usr/local/demo/media/ST2297_visionv3.webm
```



```

Topology:
  container: video/webm
    audio: audio/x-vorbis, channels=(int)2, rate=(int)48000, streamheader=(buffer)<
01766f7262697[...]
    Tags:
      container format: Matroska
      language code: en
      application name: Lavc56.60.100
      encoder: Xiph.Org libVorbis I 20150105 (????)
      encoder version: 0
      audio codec: Vorbis
      nominal bitrate: 112000
      bitrate: 112000

    Codec:
      audio/x-vorbis, channels=(int)2, rate=(int)48000, streamheader=(buffer)< 01766f72
[...]
  Additional info:
    None
    Stream ID: 18eb4f2d90d91d79f9bf3f9b9e41e785ee2cc1396d37b5ad127838437f6a3847/002:002
    Language: en
    Channels: 2 (front-left, front-right)
    Sample rate: 48000
    Depth: 32
    Bitrate: 112000
    Max bitrate: 0
  video: video/x-vp8, width=(int)640, height=(int)360, pixel-aspect-ratio=(fraction)1
/1, framerate=(fraction)25/1
    Tags:
      container format: Matroska
      video codec: On2 VP8
      language code: en

    Codec:
      video/x-vp8, width=(int)640, height=(int)360, pixel-aspect-ratio=(fraction)1/1,
framerate=(fraction)25/1
    Additional info:
      None
      Stream ID: 18eb4f2d90d91d79f9bf3f9b9e41e785ee2cc1396d37b5ad127838437f6a3847/001:001
      Width: 640
      Height: 360
      Depth: 24
      Frame rate: 25/1
      Pixel aspect ratio: 1/1
      Interlaced: false
      Bitrate: 0
      Max bitrate: 0

Properties:
  Duration: 0:04:02.413000000
  Seekable: yes
  Live: no
  Tags:
    container format: Matroska
    video codec: On2 VP8
    language code: en
    application name: Lavc56.60.100
    encoder: Xiph.Org libVorbis I 20150105 (????)
    encoder version: 0
    audio codec: Vorbis
    nominal bitrate: 112000
    bitrate: 112000

```

