



# Ogg Theora

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**Dr. Timothy B. Terriberry**



# Ogg Theora: Activity

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- `theora-exp` implementation
  - From scratch, not API compatible
  - Heavy decoder optimization, both algorithmic (myself) and low-level (Rudolf Marek)
    - Real-time SD decoding on a PII-333
  - Encoder not currently usable
    - Produces valid, but very low quality output
- Google Summer of Code project
  - Goal: Produce a usable encoder for `theora-exp`
  - Result: No committable code



# Ogg Theora: Challenges

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- Getting active developers
  - Require highly specialized technical background
  - Corporate interests focused on MPEG
- Good tool integration
  - Seeking support usually poor or broken
  - Virtually no chaining support
    - Needed for hybrid streams that are a mix of 24fps and 30fps content, since Theora is fixed-framerate
- Adoption



# Ogg Theora: Dependencies

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- Libraries in use: libogg
- Projects dependent upon
  - Players (totem, vlc, xine, mplayer, etc.)
  - Content creation (ffmpeg2theora, Cinelerra, LiVES)



# Ogg Theora: Next Steps

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- Before beta, want a complete implementation of the spec
- There are two routes for this:
  - Enhancing the mainline encoder
    - Still original VP3 codebase, few people familiar with it
    - Lack of volunteers
  - Improving the `theora-exp` encoder
    - Already has more features than the mainline
    - Now needs better functionality (quality)