

GStreamer Based Media Player for SetTopBox

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SoftAtHome

- ▶ Software editor
- ▶ For Telcos and Broadcasters



Me

- ▶ Working on SetTopBox
- ▶ Software architect
- ▶ Focussed on media features



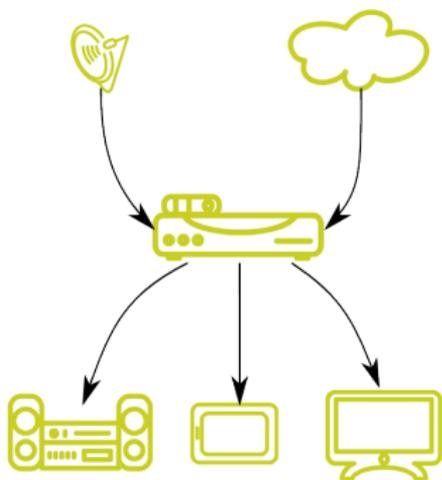
A SetTopBox is a Soc

- ▶ Processors
- ▶ Processors
- ▶ Processors
- ▶ IOs
- ▶ And peripherals



SetTopBox Media Uses

- ▶ Playback
- ▶ Record
- ▶ Streaming



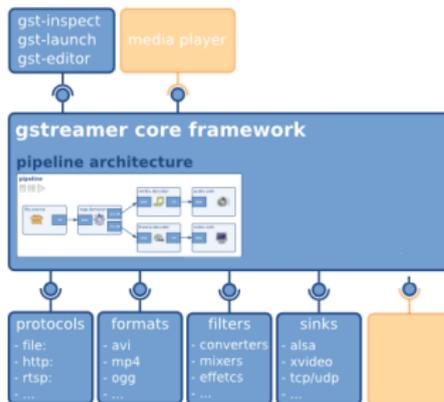
One Player for All : Seen

- ▶ Modularity
- ▶ Portability
- ▶ Customization



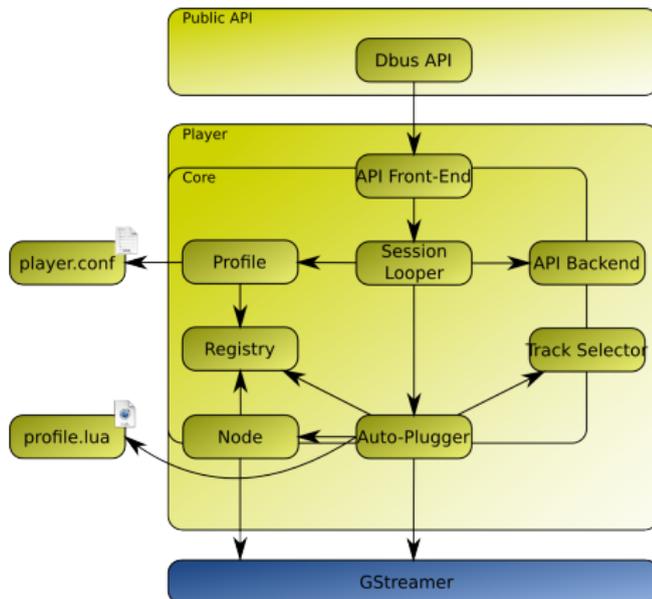
GStreamer Benefits

- ▶ Features
- ▶ Openness
- ▶ Modularity



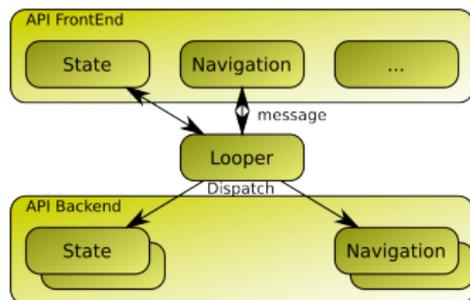
Seen Design

- ▶ C++
- ▶ Small core
- ▶ Profile based behavior



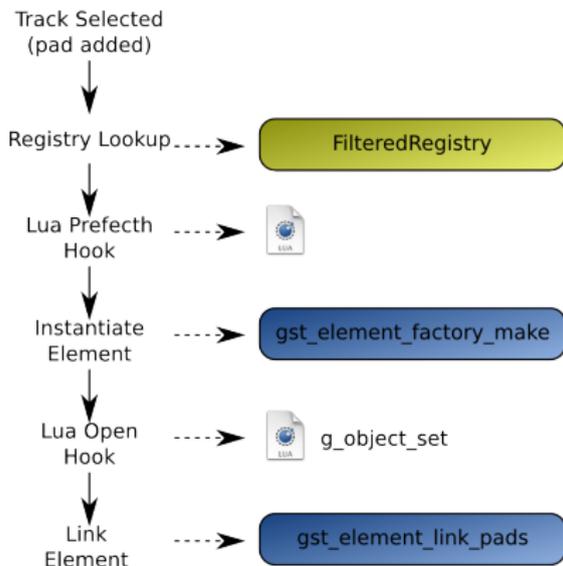
API Frontend and Backend

- ▶ Common frontend
- ▶ Specific backend
- ▶ Declared in profile



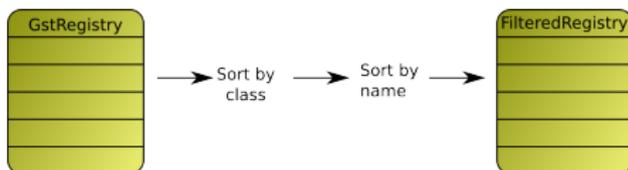
Auto-Plugger

- ▶ Pad observer
- ▶ First match wins
- ▶ Lua hooks



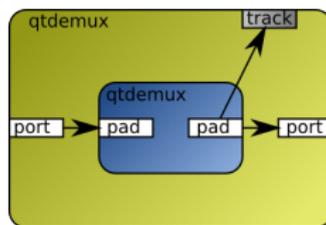
Filtered Registry

- ▶ Sort by class
- ▶ Then by name
- ▶ Per profile



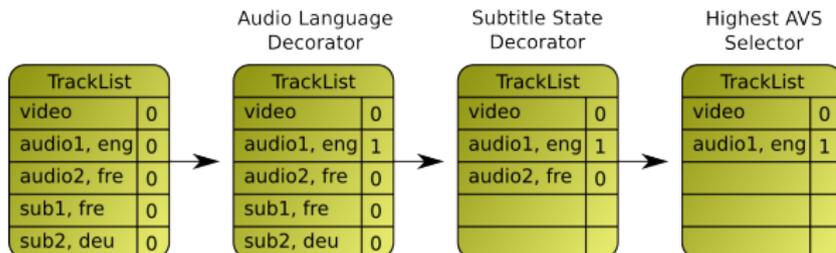
Tracks

- ▶ A Pad is usually a track
- ▶ But not always
- ▶ Do not play all tracks



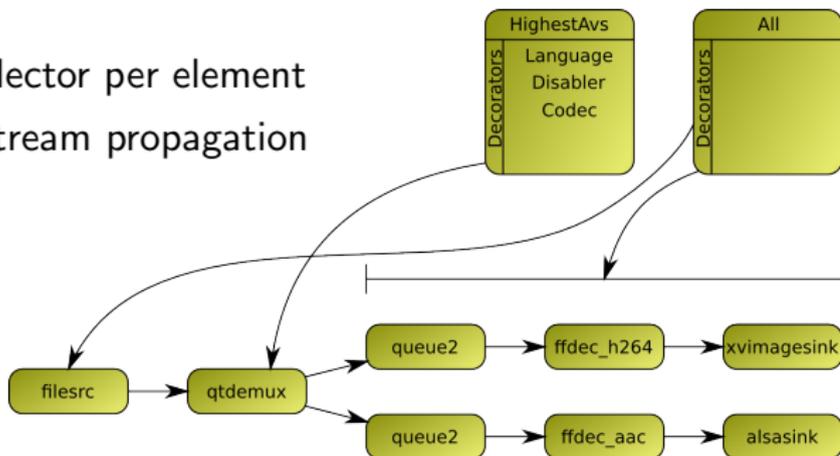
Track Selection : Scoring

- ▶ Score based selection
- ▶ Track selector
- ▶ Decorators



Track Selection : Selectors

- ▶ One selector per element
- ▶ Downstream propagation



Questions



Thank You.