

constraintLang = null | langXYZ

constraintTrack (aka track) = null | someTrackSelection

playingAudioTrack = 0..1

playingVideoTrack = 0..1

currentStreamSelection = 1..2

availableAudioStreams = 0...n

availableVideoStreams = 0...n

Branch A:

constraintLang = null

playingAudioTrack | playingVideoTrack  
= selected track

=> quit

false

currentAudioStreamSelection  
.contains(track)

false

| currentVideoStreamSelection  
.contains(track)

=> let exoplayer do

availableVideoStreams  
.contains(track)

=> VStream = aVS.select(track)

playing  
audio  
track = 0  
=> done

VStream  
.contains(currentAudioTrack)

=> let Exoplayer  
do the rest

selection  
.tracks.size  
= 2  
=> done

selection = Selection(  
CurrentAudioStream,  
VStream)

let exoplayer  
do thing

availableAudioStreams  
.contains(track)

aStream = aAS.select(track)

playing  
video  
track = 0

aStream

.contains(currentVideo)

=> let Exoplayer  
do the rest

selection  
= Selection(  
currentVideoStream,  
aStream)

selection  
.tracks  
.size = 2  
=> done

let exoplayer  
do things

Branch B:

constraintLang = langXYZ

false

track = null

=> done

playingAudioTrack  
.lang = langXYZ

false

currentStreamSelection  
.contains(track)

false

currentStreamSelection  
.contains(track)

false

let exoplayer do things

availableAudioStreams  
.filterByLang(  
constraintLanguage)

=> continue with  
Branch A

availableVideoStreams  
.contains(track)

=> continue with  
Branch A

track.isVideo

=> let exoplayer  
do thing

currentStreamSelection  
.filterByLanguage(  
constraintLang)

.contains(track)

=> let exoplayer  
do thing

availableAudioStreams  
.filterByLang(  
constraintLang)

=> continue with  
Branch A

availableAudioStreams  
.filterByLang(  
constraintLang)

=> continue with  
Branch A