

Sonus Texere

Automated Dense Soundtrack Construction for Books Using Movie Adaptations

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Music is often essential in accentuating movies but has yet to be used in books. In this paper, we automatically build an immersive book soundtrack that complements narratives and emotional plot points.

“It actually made the experience better as the transition put you in the mood for the expected emotion - from melancholy to sad”

“When the tension built in the plot, the music transitioned to match it.”

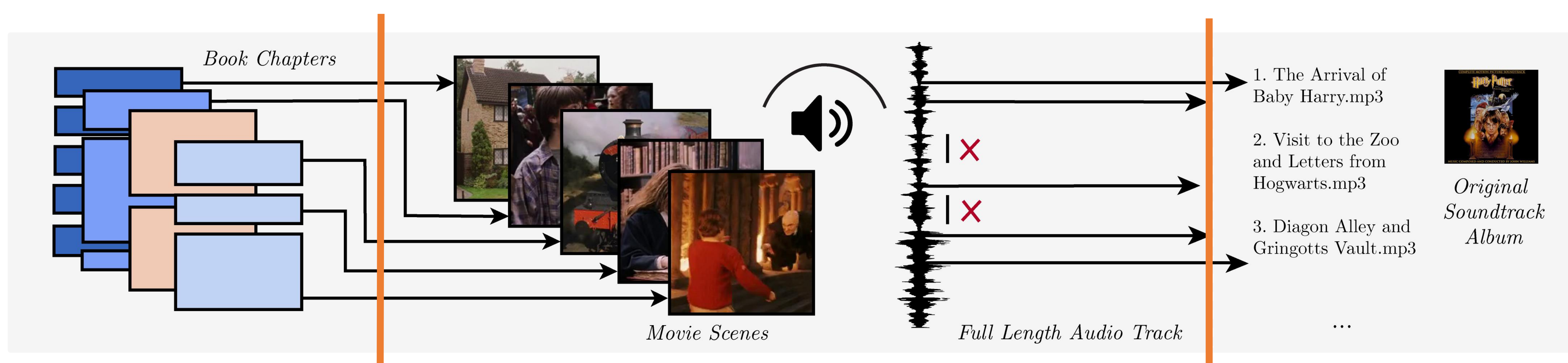
Idea: Generate a book soundtrack using the score from the movie adaptation.

Step 1: Split each modality into smaller homogenous segments, for easier processing.



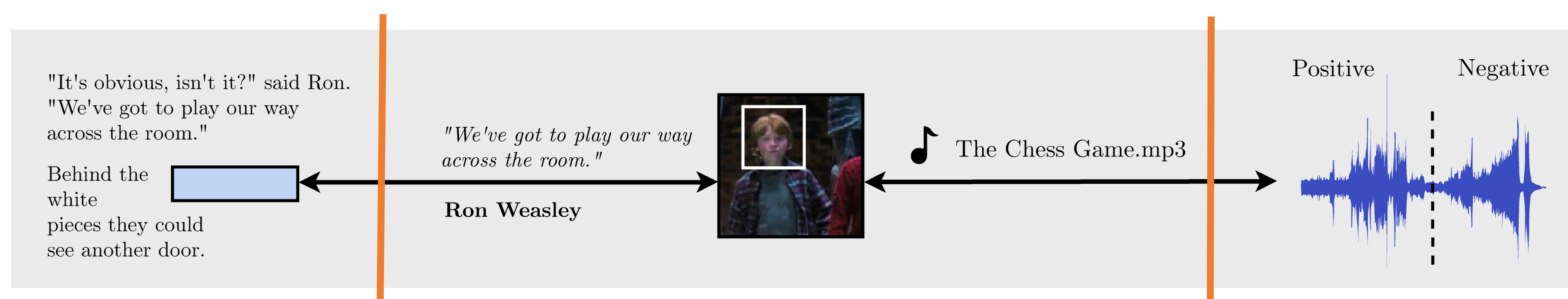
We segment each modality to obtain narratively and emotionally cohesive chunks of text, video, and music. This ensures that we can compare the content of each chunk more easily.

Step 2: Match paragraph chunks with movie scenes & movie scenes with music tracks



Align the book and movie using dialogue similarity, character co-occurrences. Align the movie and soundtrack using Shazam. This gives us a paragraph-scene and scene-music mapping.

Step 3: Using the movie scene as an intermediary, assign a track to every paragraph chunk



For every text chunk, assign it a single emotionally relevant audio-segment. Taken together, the audio for all text-segments form the book soundtrack.