Multimedia Enriched Digital Books

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Motivation

• Integrated multimedia access to book related contents, such as films.

• Audio: production of Digital Talking Books using actor's voices.

• Image: production of illustrations for books.

• Video: evaluate new reading e-learning paradigms.
Context

Book

Integration

Film + Text related contents

- screenplay
- behind the scenes
- ....

Multimedia Enriched Digital Book
Voice transformation for Audio Books

- Character/Narrator text detection
- Book → voice transformer → Aligned reading record
Using actor voices for Audio Books

Film

Book
- Characters
- Dialogues
- Narrator

Screenplay
- Characters
- Dialogues

Actor voice

TTS
- preset voice

subtitles
audio
Little red-cap raised her eyes, and when she saw the sunbeams dancing here and there through the...

take grandmother a fresh nosegay. That would please her too. It is so early in the day that I shall still get there in good time. And so she ran...

picked one, she fancied that she saw a still prettier one farther on, and ran after it, and so got deeper and deeper into the wood. Meanwhile the wolf ran straight to the grandmother's house and knocked at the door. "Who is there?"
"Little red-cap," replied the wolf. "She is bringing cake and wine. Open the door."
And so she ran from the path into the wood to look for flowers. And whenever she had picked one, she...

so got deeper and deeper into the wood. Meanwhile the wolf ran straight to the grandmother's house and knocked at the door. "Who is there?" "Little red-cap," replied the wolf. "She is bringing cake and wine. Open the door."

The wolf lifted the latch, the door sprang open, and without saying a word he went straight to the grandmother's bed, and...

Film

Screenplay

Little red-cap pick flowers walking into the wood.

5 INT. GRANDMOTHER'S HOUSE – DAY (LATER)
Grandmother sits in a rocking chair. Someone is knocking the door

GRANDMOTHER
Who is there?

WOLF
Little red-cap, She is bringing cake and wine. Open the door!

GRANDMOTHER
Lift the latch! I am too weak, and cannot get up.

Wolf lift the latch, goes in and …
Film and its screenplay

Film/TV Program

- video
- audio
- time codes
- subtitles

Screenplay

- dialog lines
- character ID
- comments within dialog lines
- comments between dialog lines
More details about film alignment

Thank you