

Team 2

Capstone Design

Video Timeline(Timestamp) generator based on text analysis

Introduction



The video was kind of short, so here are the timestamps

0:00 Carpet (Scratching, Tape, Brushing)

1:07 Candy Opening

2:14 Calligraphy Pen

3:18 Scratching and tapping with cotton ball on what I believe is a wooden dinosaur

4:20 Leather shoes (Spraying, wiping, scratching)

5:00 Dice

5:42 A yummy looking snack (scratching packaging, opening, tapping snack)

6:42 Dominoes

7:24 Newspaper (Highlighting)

8:02 Brushing camera/ scratching. (My favorite part <3)

8:40 Sphere thing (IDK what it is) (Tapping and putting together)

9:10 Puzzle (Tapping on Box, pouring pieces out, picking up pieces, scratching and tapping)

9:58 Ticking Machine

10:07 Paper Clips

10:25 Tower of Piza 3D Puzzle (Unwrapping, Opening, Tapping, Some scratching)

11:38 Sand

Outline



1 Introduction

2 Process

3 Background

4 Ideas

5 Example

6 Conclusion

Process



Text Extract

Clustering

Pre-processing

Generate
Time Stamp

Outline

1 Introduction

2 Process

3 Background

4 Ideas

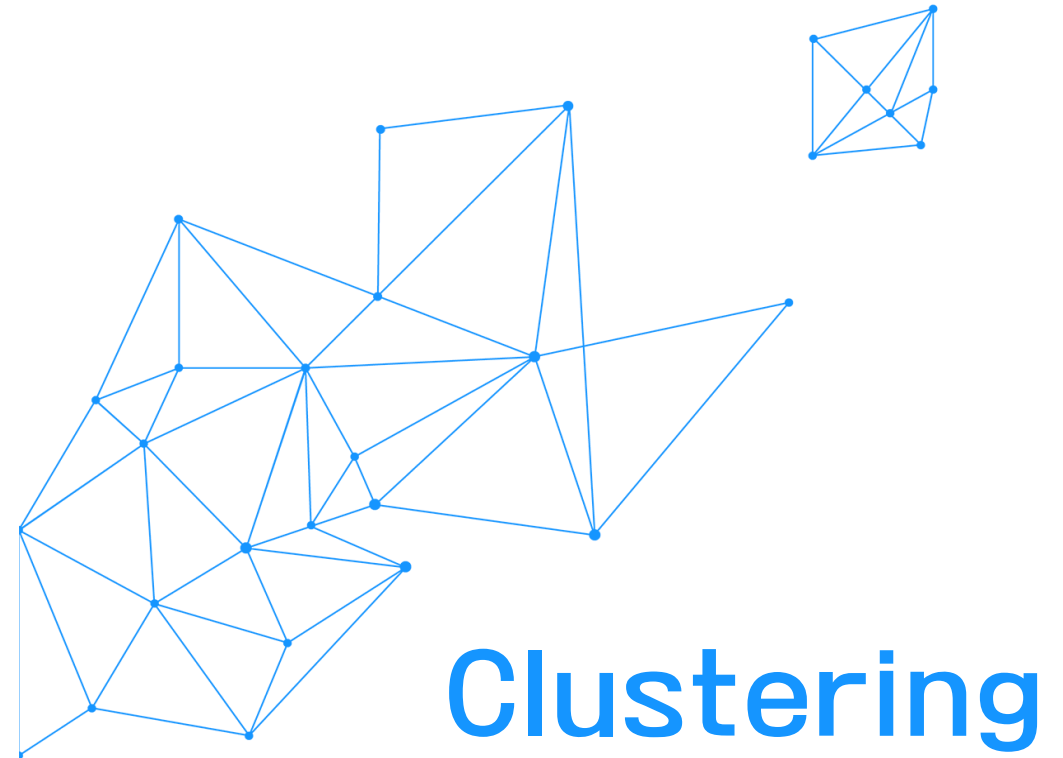
5 Example

6 Conclusion

Background



```
import pytube  
import NLTK
```



Background



33
00:01:17,850 --> 00:01:19,350
while they invaded US and British

34
00:01:19,350 --> 00:01:21,540
overseas territories on the morning of

"overseas/territories/on the morning of"

overseas, territories, morning

oversea, territori, morn

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The background is a dark, blurred image of a laptop. The screen shows lines of code in a light color on a dark background. Some visible code includes CSS selectors like '.widget-area-sidebar' and properties like 'font-size: 13px;', 'display: inline-block;', 'height: 69px;', 'float: right;', 'margin: 11px 28px 0px 0px;', and 'max-width: 800px;'. A keyboard is visible at the bottom of the frame, with keys like '2', '3', and '4' partially visible.

Ideas

ideas



Original
Text

{photo, number, etc}

{word, vector, new}

Group 1

Group 2

{try, harder, makeit, better}

Group A

Group B

Group C

Group D

Outline



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Examples

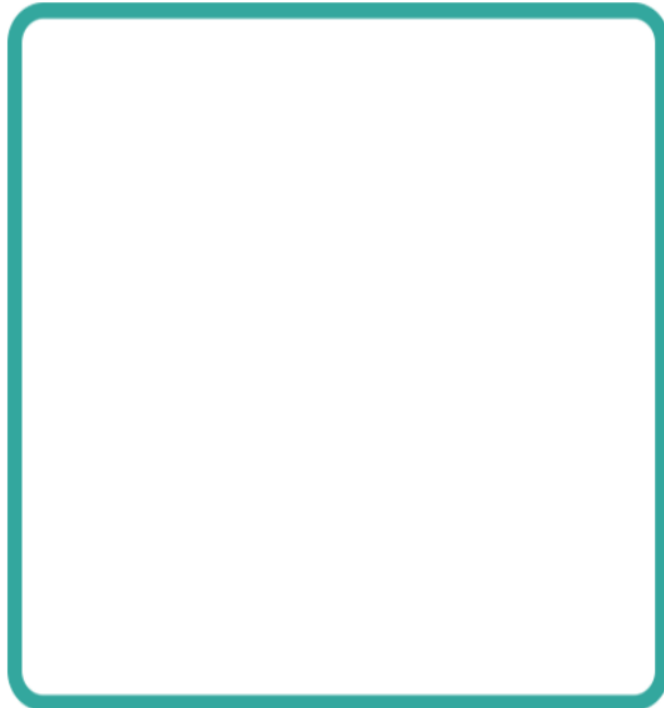


00:00:00 , [photo, power, flight, orvil, captur]	0:23 : 10, The first manned, powered, heavier-than-air flight
00:00:58 , [attack, us, pearl, harbor, japanes]	1:05 : 9, The Attack on Pearl Harbour
00:01:34 , [captur, war, flag, one, photo]	1:45 : 8, Raising the flag on low Jima
00:02:25 , [hindenburg, may, went, flame, although]	2:26 : 7, The Hindenburg Disaster
00:03:03 , [time, squar, kiss, friedman, photo]	3:09 : 6, V-J Day in Times Square
00:03:48 , [migrant, time, lang, imag, thompson]	3:54 : 5, Migrant Mother
00:04:33 , [bomb, thousand, hiroshima, mushroom, cloud]	4:34 : 4, Hiroshima
00:05:18 , [tank, man, world, first, introduct]	5:23 : 3, Tank Man
00:05:54 , [berlin, wall, east, fall, west]	6:06 : 2, The Fall of the Berlin Wall
00:06:37 , [continu, sure, notifi, video, make]	6:51 : Requesting to turn on channel notification
00:07:22 , [apollo, shot, pictur, taken, anoth]	7:07 : 1, Man on the Moon

Examples



Full Subtitle

A large, empty rounded rectangle with a teal border, intended for a full subtitle.

Timeline

A rounded rectangle with a red border, intended for a timeline.

comment about result

A rounded rectangle with a red border containing five orange stars, intended for a comment about the result.

Conclusion



Next Things.