

Team 2

# Capstone Design

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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

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**3 Background**

**4 Ideas**

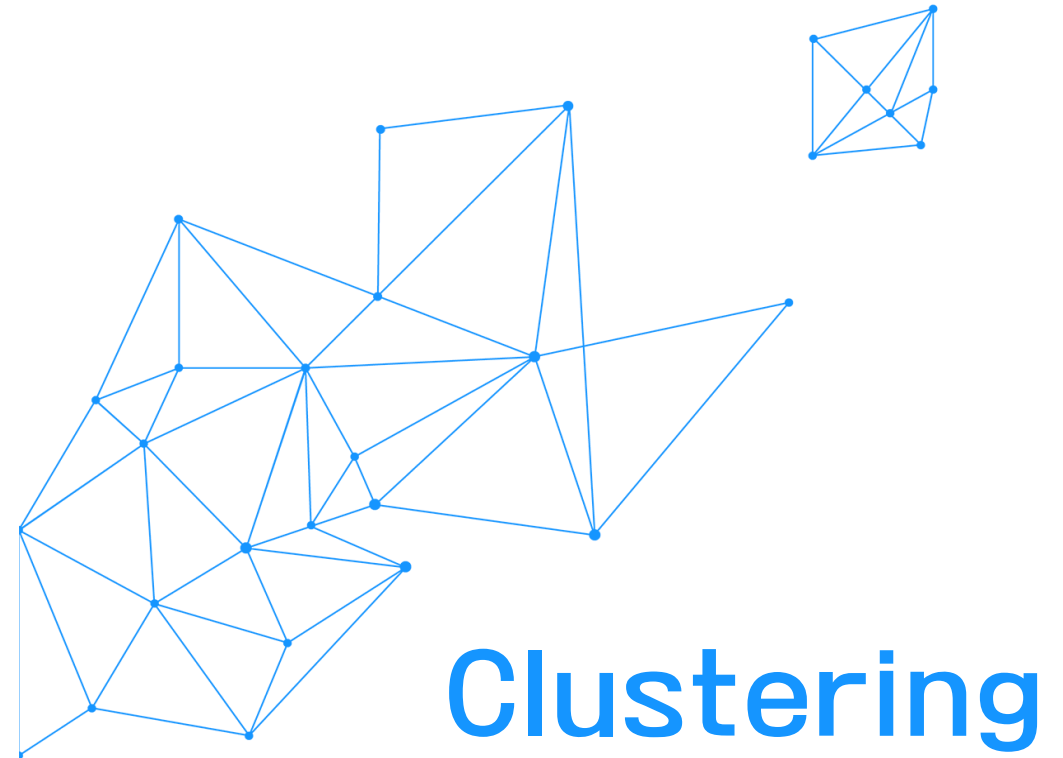
**5 Example**

**6 Conclusion**

# Background



```
import pytube  
import NLTK
```



## Clustering

# 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 of the image is a blurred photograph of a laptop. The screen shows lines of code, likely CSS or JavaScript, with some text like '.widget-area-sidebar' and 'font-size: 13px;'. The keyboard is visible at the bottom, showing keys like '2', '3', and '4'.

# 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

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# Examples

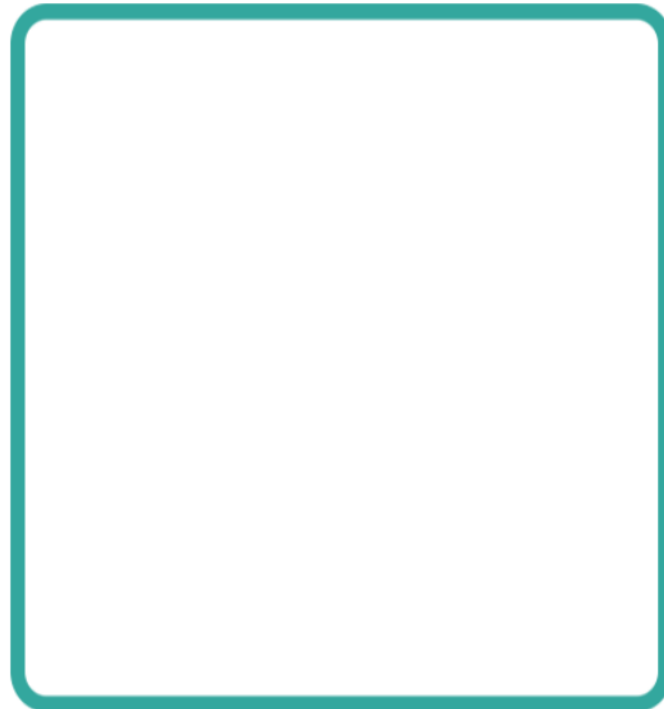


00:00:00 , [ photo, power, flight, orvil, captur ]	0:23 : 10, The first manned, powered, heavier-than-air flight
00:00:58 , [ attack, us, pearl, harbor, japanes ]	1:05 : 9, The Attack on Pearl Harbour
00:01:34 , [ captur, war, flag, one, photo ]	1:45 : 8, Raising the flag on low Jima
00:02:25 , [ hindenburg, 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



Timeline



comment about result



# Conclusion



Next Things.