Data Collection

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1 Audience Retention

1.1 Function

1.1.1 2020

Retrieving audience retention data of videos from subtopic 2.1 Fungsi. The data was retrieved on 6 January 2024.

```
# A tibble: 400 x 4
   vid_id      elapsed_time_ratio audience_watch_ratio relative_retention_perf~1
   <chr>                    <dbl>                <dbl>                     <dbl>
 1 7g35w-sL_JA               0.01                0.991                     0.696
 2 7g35w-sL_JA               0.02                0.894                     0.817
 3 7g35w-sL_JA               0.03                0.832                     0.905
 4 7g35w-sL_JA               0.04                0.858                     0.940
 5 7g35w-sL_JA               0.05                0.832                     0.949
 6 7g35w-sL_JA               0.06                0.858                     0.950
 7 7g35w-sL_JA               0.07                0.823                     0.950
 8 7g35w-sL_JA               0.08                0.832                     0.950
 9 7g35w-sL_JA               0.09                0.796                     0.950
10 7g35w-sL_JA               0.1                 0.832                     0.950
# i 390 more rows
# i abbreviated name: 1: relative_retention_performance
```

Retrieving audience retention data of videos from subtopic 2.2 Grafik Fungsi. The data was retrieved on 7 January 2024.

```
# A tibble: 600 x 4
   vid_id      elapsed_time_ratio audience_watch_ratio relative_retention_perf~1
   <chr>                    <dbl>                <dbl>                     <dbl>
 1 aHo1kbccgLM               0.01                1                         0.690
 2 aHo1kbccgLM               0.02                0.9                       0.807
 3 aHo1kbccgLM               0.03                0.8                       0.894
 4 aHo1kbccgLM               0.04                0.854                     0.927
 5 aHo1kbccgLM               0.05                0.836                     0.937
```

```
 6 aHo1kbccgLM               0.06            0.864                0.940
 7 aHo1kbccgLM               0.07            0.818                0.942
 8 aHo1kbccgLM               0.08            0.782                0.944
 9 aHo1kbccgLM               0.09            0.773                0.946
10 aHo1kbccgLM               0.1             0.754                0.948
# i 590 more rows
# i abbreviated name: 1: relative_retention_performance
```

Retrieving audience retention data of videos from subtopic 2.3 Informasi Penting Grafik
Fungsi. The data was retrieved on 7 January 2024 from Youtube API Explorer with these
codes.

```
curl \
  'https://youtubeanalytics.googleapis.com/v2/reports?dimensions=elapsedVideoTimeRatio&en
  --header 'Authorization: Bearer [YOUR_ACCESS_TOKEN]' \
  --header 'Accept: application/json' \
  --compressed
```

```
# A tibble: 400 x 4
   vid_id        elapsed_time_ratio audience_watch_ratio relative_retention_perf~1
   <chr>                      <dbl>                <dbl>                     <dbl>
 1 MD5LDDmH3Lo                 0.01                 1.01                     0.770
 2 MD5LDDmH3Lo                 0.02                 0.840                    0.862
 3 MD5LDDmH3Lo                 0.03                 0.774                    0.922
 4 MD5LDDmH3Lo                 0.04                 0.755                    0.939
 5 MD5LDDmH3Lo                 0.05                 0.802                    0.943
 6 MD5LDDmH3Lo                 0.06                 0.783                    0.945
 7 MD5LDDmH3Lo                 0.07                 0.764                    0.948
 8 MD5LDDmH3Lo                 0.08                 0.755                    0.949
 9 MD5LDDmH3Lo                 0.09                 0.736                    0.950
10 MD5LDDmH3Lo                 0.1                  0.708                    0.950
# i 390 more rows
# i abbreviated name: 1: relative_retention_performance
```

Retrieving audience retention data of videos from subtopic 2.4 Fungsi Linear dan Model-
nya. The data was retrieved on 7 January 2024 from Youtube API Explorer with these
codes.

```
curl \
  'https://youtubeanalytics.googleapis.com/v2/reports?dimensions=video%2CelapsedVideoTime
  --header 'Authorization: Bearer [YOUR_ACCESS_TOKEN]' \
  --header 'Accept: application/json' \
  --compressed
```

```
# A tibble: 300 x 4
   vid_id        elapsed_time_ratio audience_watch_ratio relative_retention_perf~1
   <chr>                      <dbl>                <dbl>                     <dbl>
```

```
 1 LIkQgdMtovQ                0.01                0.929                       0.478
 2 LIkQgdMtovQ                0.02                0.788                       0.602
 3 LIkQgdMtovQ                0.03                0.718                       0.712
 4 LIkQgdMtovQ                0.04                0.718                       0.776
 5 LIkQgdMtovQ                0.05                0.706                       0.812
 6 LIkQgdMtovQ                0.06                0.718                       0.841
 7 LIkQgdMtovQ                0.07                0.694                       0.875
 8 LIkQgdMtovQ                0.08                0.718                       0.908
 9 LIkQgdMtovQ                0.09                0.776                       0.928
10 LIkQgdMtovQ                0.1                 0.788                       0.936
# i 290 more rows
# i abbreviated name: 1: relative_retention_performance
```

Retrieving audience retention data of videos from subtopic 2.5 Transformasi Fungsi. The data was retrieved on 7 January 2024 from Youtube API Explorer with these codes.

```
curl \
  'https://youtubeanalytics.googleapis.com/v2/reports?dimensions=video%2CelapsedVideoTimeF
  --header 'Authorization: Bearer [YOUR_ACCESS_TOKEN]' \
  --header 'Accept: application/json' \
  --compressed
```

```
# A tibble: 600 x 4
   vid_id      elapsed_time_ratio audience_watch_ratio relative_retention_perf~1
   <chr>                    <dbl>                <dbl>                     <dbl>
 1 jytZgg-oQyM               0.01                0.986                     0.643
 2 jytZgg-oQyM               0.02                0.851                     0.763
 3 jytZgg-oQyM               0.03                0.865                     0.856
 4 jytZgg-oQyM               0.04                0.824                     0.902
 5 jytZgg-oQyM               0.05                0.838                     0.923
 6 jytZgg-oQyM               0.06                0.824                     0.933
 7 jytZgg-oQyM               0.07                0.878                     0.932
 8 jytZgg-oQyM               0.08                0.838                     0.922
 9 jytZgg-oQyM               0.09                0.824                     0.903
10 jytZgg-oQyM               0.1                 0.824                     0.881
# i 590 more rows
# i abbreviated name: 1: relative_retention_performance
```

Retrieving audience retention data of videos from subtopic 2.6 Kombinasi Beberapa Fungsi. The data was retrieved on 7 January 2024 from Youtube API Explorer with these codes.

```
curl \
  'https://youtubeanalytics.googleapis.com/v2/reports?dimensions=video%2CelapsedVideoTimeF
  --header 'Authorization: Bearer [YOUR_ACCESS_TOKEN]' \
  --header 'Accept: application/json' \
  --compressed
```

```
# A tibble: 300 x 4
   vid_id       elapsed_time_ratio audience_watch_ratio relative_retention_perf~1
   <chr>                     <dbl>                <dbl>                     <dbl>
 1 oKlJDBsc_A0                0.01                1.01                      0.747
 2 oKlJDBsc_A0                0.02                0.872                     0.835
 3 oKlJDBsc_A0                0.03                0.820                     0.893
 4 oKlJDBsc_A0                0.04                0.808                     0.910
 5 oKlJDBsc_A0                0.05                0.820                     0.914
 6 oKlJDBsc_A0                0.06                0.769                     0.914
 7 oKlJDBsc_A0                0.07                0.731                     0.913
 8 oKlJDBsc_A0                0.08                0.731                     0.912
 9 oKlJDBsc_A0                0.09                0.718                     0.909
10 oKlJDBsc_A0                0.1                 0.705                     0.904
# i 290 more rows
# i abbreviated name: 1: relative_retention_performance
```

Retrieving audience retention data of videos from subtopic 2.7 Fungsi Satu-Satu dan
Inversnya. The data was retrieved on 7 January 2024 from Youtube API Explorer with
these codes.

```
curl \
  'https://youtubeanalytics.googleapis.com/v2/reports?dimensions=video%2CelapsedVideoTime
  --header 'Authorization: Bearer [YOUR_ACCESS_TOKEN]' \
  --header 'Accept: application/json' \
  --compressed
```

```
# A tibble: 500 x 4
   vid_id       elapsed_time_ratio audience_watch_ratio relative_retention_perf~1
   <chr>                     <dbl>                <dbl>                     <dbl>
 1 hcUC4IFisL4                0.01                0.937                     0.700
 2 hcUC4IFisL4                0.02                0.747                     0.788
 3 hcUC4IFisL4                0.03                0.709                     0.850
 4 hcUC4IFisL4                0.04                0.709                     0.878
 5 hcUC4IFisL4                0.05                0.709                     0.895
 6 hcUC4IFisL4                0.06                0.722                     0.909
 7 hcUC4IFisL4                0.07                0.722                     0.918
 8 hcUC4IFisL4                0.08                0.709                     0.923
 9 hcUC4IFisL4                0.09                0.696                     0.927
10 hcUC4IFisL4                0.1                 0.760                     0.930
# i 490 more rows
# i abbreviated name: 1: relative_retention_performance
```

Combining subtopic data into one topic.

```
# A tibble: 3,100 x 4
   vid_id       elapsed_time_ratio audience_watch_ratio relative_retention_perf~1
   <chr>                     <dbl>                <dbl>                     <dbl>
 1 7g35w-sL_JA                0.01                0.991                     0.696
```

```
 2 7g35w-sL_JA              0.02              0.894                 0.817
 3 7g35w-sL_JA              0.03              0.832                 0.905
 4 7g35w-sL_JA              0.04              0.858                 0.940
 5 7g35w-sL_JA              0.05              0.832                 0.949
 6 7g35w-sL_JA              0.06              0.858                 0.950
 7 7g35w-sL_JA              0.07              0.823                 0.950
 8 7g35w-sL_JA              0.08              0.832                 0.950
 9 7g35w-sL_JA              0.09              0.796                 0.950
10 7g35w-sL_JA              0.1               0.832                 0.950
# i 3,090 more rows
# i abbreviated name: 1: relative_retention_performance
```

1.1.2 2021