

Burak_Kurt_YouTube_AI.py outputs:

1-json

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS QUERY RESULTS SPELL CHECKER zsh + □ ⌂ … | [ ] (.venv) (base) burakkurt@192 aimultiple % python3 Burak_Kurt_YouTube_AI.py "https://www.youtube.com/watch?v=rSaC-YbSDpo" json
  "lyrics_length_tokens": 583,
  "tokens_per_word": 1.71,
  "lyrics_hash": "4b3fe285907f67a8380684cd06532835"
},
{
  "name": "Burning Up",
  "lyrics_length_chars": 2167,
  "lyrics_length_words": 364,
  "lyrics_length_tokens": 658,
  "tokens_per_word": 1.81,
  "lyrics_hash": "c3cb4c7a283895b58f81115e6f847c03"
},
{
  "name": "I Know It",
  "lyrics_length_chars": 1699,
  "lyrics_length_words": 300,
  "lyrics_length_tokens": 432,
  "tokens_per_word": 1.44,
  "lyrics_hash": "fd1b86ec0ce2f57c72fcaff79abb9414"
},
{
  "name": "Holiday",
  "lyrics_length_chars": 1428,
  "lyrics_length_words": 215,
  "lyrics_length_tokens": 365,
  "tokens_per_word": 1.7,
  "lyrics_hash": "f1ddfacf9bd525a73ce95be5f4b30984"
},
{
  "name": "Think of Me",
  "lyrics_length_chars": 2081,
  "lyrics_length_words": 344,
  "lyrics_length_tokens": 564,
  "tokens_per_word": 1.64,
  "lyrics_hash": "ec4bf3ba4585b204f39a6a516924a237"
},
{
  "name": "Physical Attraction",
  "lyrics_length_chars": 2186,
  "lyrics_length_words": 315,
  "lyrics_length_tokens": 505,
  "tokens_per_word": 1.6,
  "lyrics_hash": "f1063f64a128f6e148e80052b768727e"
},
{
  "name": "Everybody",
  "lyrics_length_chars": 3407,
  "lyrics_length_words": 531,
  "lyrics_length_tokens": 843,
  "tokens_per_word": 1.59,
  "lyrics_hash": "52ffe55e267b1d2b3107028400686d63"
}
],
"total_tokens_all_songs": 4575,
"avg_tokens_per_song": 571.88
```

2-hash

```
((.venv) ) (base) burakkurt@192 aimultiple % python3 Burak_Kurt_YouTube_AI.py "https://www.youtube.com/watch?v=rSaC-YbSDpo" hash
<All keys matched successfully>
=====
Starting YouTube AI Scraping Agent
=====
Scraping YouTube URL: https://www.youtube.com/watch?v=rSaC-YbSDpo
Found artist: Madonna
Waiting 2.6 seconds...
Asking OpenRouter LLM about Madonna's first album...
First album: Madonna
Found 8 songs

[1/8] Processing: Lucky Star
Scraping lyrics from: https://genius.com/madonna-lucky-star-lyrics
✓ Successfully scraped lyrics (2505 characters)

[2/8] Processing: Borderline
Waiting 5.7 seconds...
Scraping lyrics from: https://genius.com/madonna-borderline-lyrics
✓ Successfully scraped lyrics (2142 characters)

[3/8] Processing: Burning Up
Waiting 4.2 seconds...
Scraping lyrics from: https://genius.com/madonna-burning-up-lyrics
✓ Successfully scraped lyrics (2167 characters)

[4/8] Processing: I Know It
Waiting 4.4 seconds...
Scraping lyrics from: https://genius.com/madonna-i-know-it-lyrics
✓ Successfully scraped lyrics (1699 characters)

[5/8] Processing: Holiday
Waiting 5.4 seconds...
Scraping lyrics from: https://genius.com/madonna-holiday-lyrics
✓ Successfully scraped lyrics (1428 characters)

[6/8] Processing: Think of Me
Waiting 3.9 seconds...
Scraping lyrics from: https://genius.com/madonna-think-of-me-lyrics
✓ Successfully scraped lyrics (2081 characters)

[7/8] Processing: Physical Attraction
Waiting 4.9 seconds...
Scraping lyrics from: https://genius.com/madonna-physical-attraction-lyrics
✓ Successfully scraped lyrics (2186 characters)

[8/8] Processing: Everybody
Waiting 4.6 seconds...
Scraping lyrics from: https://genius.com/madonna-everybody-lyrics
✓ Successfully scraped lyrics (3407 characters)
Token counts string: 625,583,658,432,365,564,505,843
=====
Agent completed successfully!
=====
178d91e7149251bb957c4ed903e5f87a
((.venv) ) (base) burakkurt@192 aimultiple %
```

3-full terminal log:

```
(base) burakkurt@192 aimultiple % source
/Users/burakkurt/aimultiple/.venv/bin/activate
((.venv) ) (base) burakkurt@192 aimultiple % python3 Burak_Kurt_YouTube_AI.py
"https://www.youtube.com/watch?v=rSaC-YbSDpo" json
Loading embedding model...
/Users/burakkurt/aimultiple/.venv/lib/python3.12/site-packages/huggingface_hub/file
_download.py:1132: FutureWarning: `resume_download` is deprecated and will be
removed in version 1.0.0. Downloads always resume when possible. If you want to
force a new download, use `force_download=True`.
  warnings.warn(
<All keys matched successfully>
=====
Starting YouTube AI Scraping Agent
=====
Scraping YouTube URL: https://www.youtube.com/watch?v=rSaC-YbSDpo
Found artist: Madonna
Waiting 2.2 seconds...
Asking OpenRouter LLM about Madonna's first album...
First album: Madonna
Found 8 songs

[1/8] Processing: Lucky Star
Scraping lyrics from: https://genius.com/madonna-lucky-star-lyrics
✓ Successfully scraped lyrics (2505 characters)

[2/8] Processing: Borderline
Waiting 4.5 seconds...
Scraping lyrics from: https://genius.com/madonna-borderline-lyrics
✓ Successfully scraped lyrics (2142 characters)

[3/8] Processing: Burning Up
Waiting 6.0 seconds...
Scraping lyrics from: https://genius.com/madonna-burning-up-lyrics
✓ Successfully scraped lyrics (2167 characters)

[4/8] Processing: I Know It
Waiting 3.6 seconds...
Scraping lyrics from: https://genius.com/madonna-i-know-it-lyrics
```

```
✓ Successfully scraped lyrics (1699 characters)

[5/8] Processing: Holiday
Waiting 4.1 seconds...
Scraping lyrics from: https://genius.com/madonna-holiday-lyrics
✓ Successfully scraped lyrics (1428 characters)

[6/8] Processing: Think of Me
Waiting 5.0 seconds...
Scraping lyrics from: https://genius.com/madonna-think-of-me-lyrics
✓ Successfully scraped lyrics (2081 characters)

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Waiting 4.4 seconds...
Scraping lyrics from: https://genius.com/madonna-physical-attraction-lyrics
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Token counts string: 625,583,658,432,365,564,505,843

=====
Agent completed successfully!
=====

{
  "artist": "Madonna",
  "album_name": "Madonna",
  "songs": [
    {
      "name": "Lucky Star",
      "lyrics_length_chars": 2505,
      "lyrics_length_words": 371,
      "lyrics_length_tokens": 625,
      "tokens_per_word": 1.68,
      "lyrics_hash": "fbabb04f4585d163324911771605f237"
    },
    {
      "name": "Borderline",
      "lyrics_length_chars": 2142,
      "lyrics_length_words": 341,
      "lyrics_length_tokens": 583,
      "tokens_per_word": 1.71,
      "lyrics_hash": "4b3fe285907f67a8380684cd06532835"
    }
  ]
}
```

```
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{
  "name": "Burning Up",
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  "lyrics_length_words": 364,
  "lyrics_length_tokens": 658,
  "tokens_per_word": 1.81,
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/Users/burakkurt/aimultiple/.venv/lib/python3.12/site-packages/huggingface_hub/file
_download.py:1132: FutureWarning: `resume_download` is deprecated and will be
removed in version 1.0.0. Downloads always resume when possible. If you want to
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Scraping lyrics from: https://genius.com/madonna-i-know-it-lyrics
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Waiting 3.9 seconds...
Scraping lyrics from: https://genius.com/madonna-think-of-me-lyrics
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