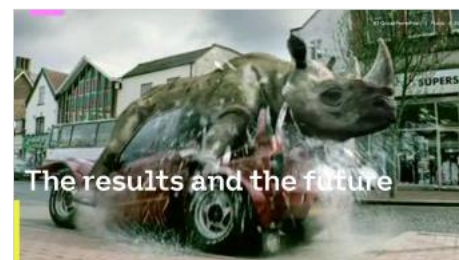
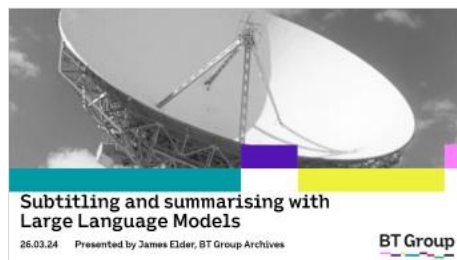


Subtitling and summarising with Large Language Models





Subtitling and summarising with Large Language Models

26.03.24

Presented by James Elder, BT Group Archives

BT Group
The BT Group logo graphic, which consists of a series of horizontal bars in various colors (pink, purple, teal, yellow, red, green, black) arranged in a stepped, staircase-like pattern.

BT Group Archives

BT Group is the world's oldest communications company.

We can trace our roots all the way back to The Electric Telegraph Company.

Our collections are acknowledged by UNESCO and Arts Council England as being internationally significant and an important part of the UK's cultural and scientific heritage.



Our film and video collection

From the GPO Film Unit to Kevin Bacon's EE adverts

- 90 years
- Over 3000 items
- At least 15 physical formats



The need



1-inch Type C video tape (1976 – mid-1990s)



1-inch Type C video tape was an open reel magnetic tape format for professional analogue video recording.

It was introduced by Ampex and Sony in 1976, and replaced the then standard 2-inch Quadruplex video tape in broadcast use, and the Ampex 1-inch Type A format. In fact, the last Type A machine, the Ampex VPR-1, could be converted to Type C by Ampex and many were.

1-inch Type C is capable of functions such as still, shuttle, and variable-speed playback, including slow motion that 2-inch Quadruplex and 1-inch Type B videotape machines lacked, due to the manner in which they recorded video tracks onto the tape.

Despite being a composite video format like U-matic or VHS, 1-inch Type C has very high video quality, approaching that of component video formats like Betacam. It became a mainstay in television and video production for almost 20 years, before being supplanted by more compact videocassette formats like Betacam, DVCAM, D1, D2 and DVCPro. It was also widely used as the master videotape format for mastering of the first generation of LaserDisc titles released, until being replaced in the late 1980s by D2.

Sources / Resources

[Preservation Self-Assessment Program \(PSAP\) | Videotape](#)

[1-inch SMPTE Type C Helical Video Format](#)

[Type C videotape – Wikipedia, the free encyclopedia](#)

Preservation / Migration

Media Stability Rating



Obsolescence Rating



Tags: 1-inch, 1970s, 1980s, 1990s, Ampex, analogue, helical scan, open reel, professional, Sony, tape, video

Similar Media

[U-matic \(1971 – 1990s\)](#)

[Sony EV 1-inch open reel video tape \(1964 – early 1970s\)](#)

[1-inch Type A video tape \(1965 – 1976\)](#)

[IVC 800 series 1-inch open reel video tape \(1967 – late 1980s\)](#)

[U-matic S SP \(1986 – late 1990s\)](#)

Media Preservation

[Media Identification Tools](#)

[Media Stability Ratings](#)

[Obsolescence Ratings](#)

[Transcription and Digitisation Services](#)

[When does a format become obsolete?](#)



Film and video archive



3 min call: First London Job

A man in 1935 phones his mother to tell her he has got his first weekly wage packet (one pound and three shillings). A man in 1975 does the same (this time it is £23).

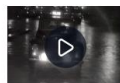
Voiceover: "In 1935 a three minute cheap rate trunk call cost a shilling or 5p. In 1975 a three minute dialled cheap rate trunk call cost 5.5p. Over 40 years that's small change".



3 min call: Grocer

A grocer in 1935 summarises an order over the telephone ("cheese fourpence, bacon one and tuppence..."). A grocer in 1975 does the same ("cheese 32p, bacon 68p...").

Voiceover: "In 1935 a three minute cheap rate call cost a shilling or 5p. In 1975 a three minute dialled cheap rate trunk call cost 5.5p. Over 40 years that's small change".



999

Extract from beginning of 1987 film '999 Emergency - Which Service Please' containing 1960s footage. Opens with a police car responding to a call through the streets of London. Voice-over provides a narrative of the 999 service and it's origins. Clip of a newspaper featuring the first 999 call is shown. Footage shows operators at work before 999 was introduced and emergency services in action during World War 2.



999 - Emergency Which Service Please

This video was made to celebrate the 50th anniversary of the 999 Emergency Service. It details the first 999 call made in London in 1937, which resulted in an arrest in Hampstead. It covers BT's role when a 999 call is made, as well as showing the four emergency services (Police, Fire, Ambulance and Coastguard) in action:

- [Search all decades](#)
- [1930s](#)
- [1940s](#)
- [1950s](#)
- [1960s](#)
- [1970s](#)
- [1980s](#)
- [1990s](#)
- [2000s](#)
- [2010s](#)
- [Oral histories](#)

[BROWSE ARCHIVE](#)

[ARCHIVE Q](#)
[+FILTER](#)

Complete Archive

Sort by Date ▼ ▲

REFINE YOUR SELECTION

Decade

☐ 1930s (9)

☐ 1950s (4)

☐ 1960s (31)

☐ 1970s (43)

☐ 1980s (280)

[Show 3 more](#)

Advertising Campaign

☐ 3 minute call
(2)

☐ Adam and Jane
(57)

☐ Airport (1)

☐ Always on my Mind
(4)

☐ Animal Instincts
(17)

[Show 45 more](#)

Function of film

☐ Advertising (536)

☐ Documenting events
(45)

☐ Informational (public)
(29)

☐ Informational
(shareholders)
(1)

☐ Informational (staff)
(24)

[Show 4 more](#)

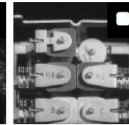

Conquering Space



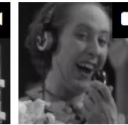
Pett and Pott



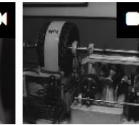
The Glorious Sixth of June



A Slow Motion Study of...



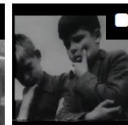
The Fairy of the Phone



Talking Clock



Line to the Tschiera Hut



Nine For Six



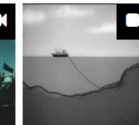
At the Third Stroke



The cable route through Newfoundland



Atlantic link



Transatlantic telephone cable (US...



Delivery of Computer to Armour...



Goonhilly aerial construction



Goonhilly Aerial construction



Goonhilly Radio Station - aerial...



Post Office Tower colour construction...



Post Office Tower Temporary...



Post Office Tower black and white...



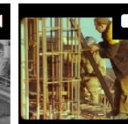
Post Office Tower - revolving...



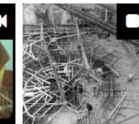
Post Office Tower colour construction...



Post Office Tower Construction...



Post Office Tower Construction...



Post Office Tower Construction...



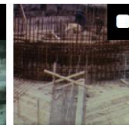
Post Office Tower Construction...



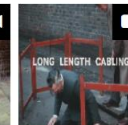
Post Office Tower Construction...



Shots of London in the snow,...



Post Office Tower Construction...



Long length cabling



Post Office Tower Lift second trial...



Atlantic Link

1956

The development of the cable repeater, and the laying, by HMTS Monarch, of the Atlantic submarine cable from the eastern shore terminal at Oban to Newfoundland. Includes details of the cable's construction and the difficult conditions encountered throughout the route. Production Company: Central Office of Information.

0076 - Atlantic link

Object Type: Asset

[Browse Archive](#) > ... > [0076 - Atlantic link](#)

0076 - Atlantic link

The development of the cable repeater and an explanation of why until the cr...

Catalogue

Finding Number: BTA-M11/0076

Date: 1956

Period: 1950s

Level: Item

Distribution: Theatrical distribution

Film function: **Informational (public)**

Film subject: **Submarine cables and cable ships**

Event documented: **Submarine cables and cable ships**

Year: 1956

Repository: BT Archives (ARCHON 1814)

Show more ▼

Search in the transcript...

🔍

Transcript

⋮ ×

00:00

[Music]

00:15

A lot of places get to be thought of as the heart of a city.

00:19

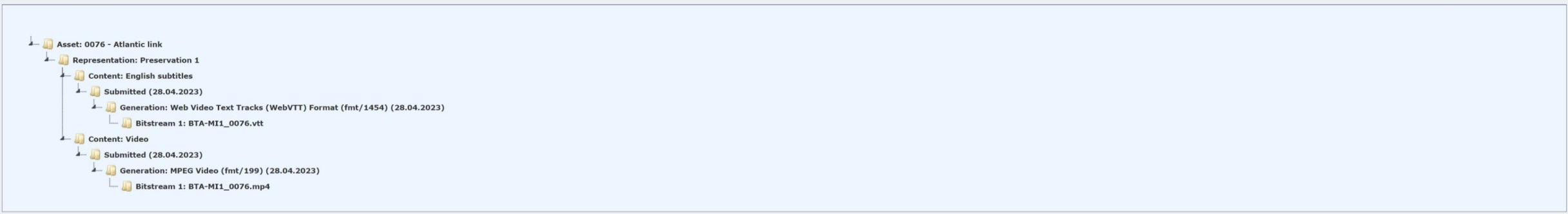
The international telephone exchange can lay as good a claim as most.

00:24

These days people don't dispute the

00:26

need for an international telephone link.





Assisted subtitling

StreamBTA-MI1_0076

Search

RecordUploadFavoritePlaylistMove toCopy toClipchamp

PreviewShare

ATLANTIC
LINK

Western
RECORDING SYSTEM

0:01 / 17:25

Video settings

Changes to video settings will apply for all viewers. Only users with edit access can see this panel. [Learn more](#)

Thumbnail

Generate video

On

Transcript and captions

Generate

Upload

Chapters

Off

Comments

On

Analytics

On

Noise suppression

Audio files

Comments

Video settings

Analytics

Help

BTA-MI1_0076

March 25, 2024 • 0 views • Elder,JR,James,SCA R • HD • > In Preparation > Ingested

Add a description to explain what this video is about.

Research

Introducing Whisper

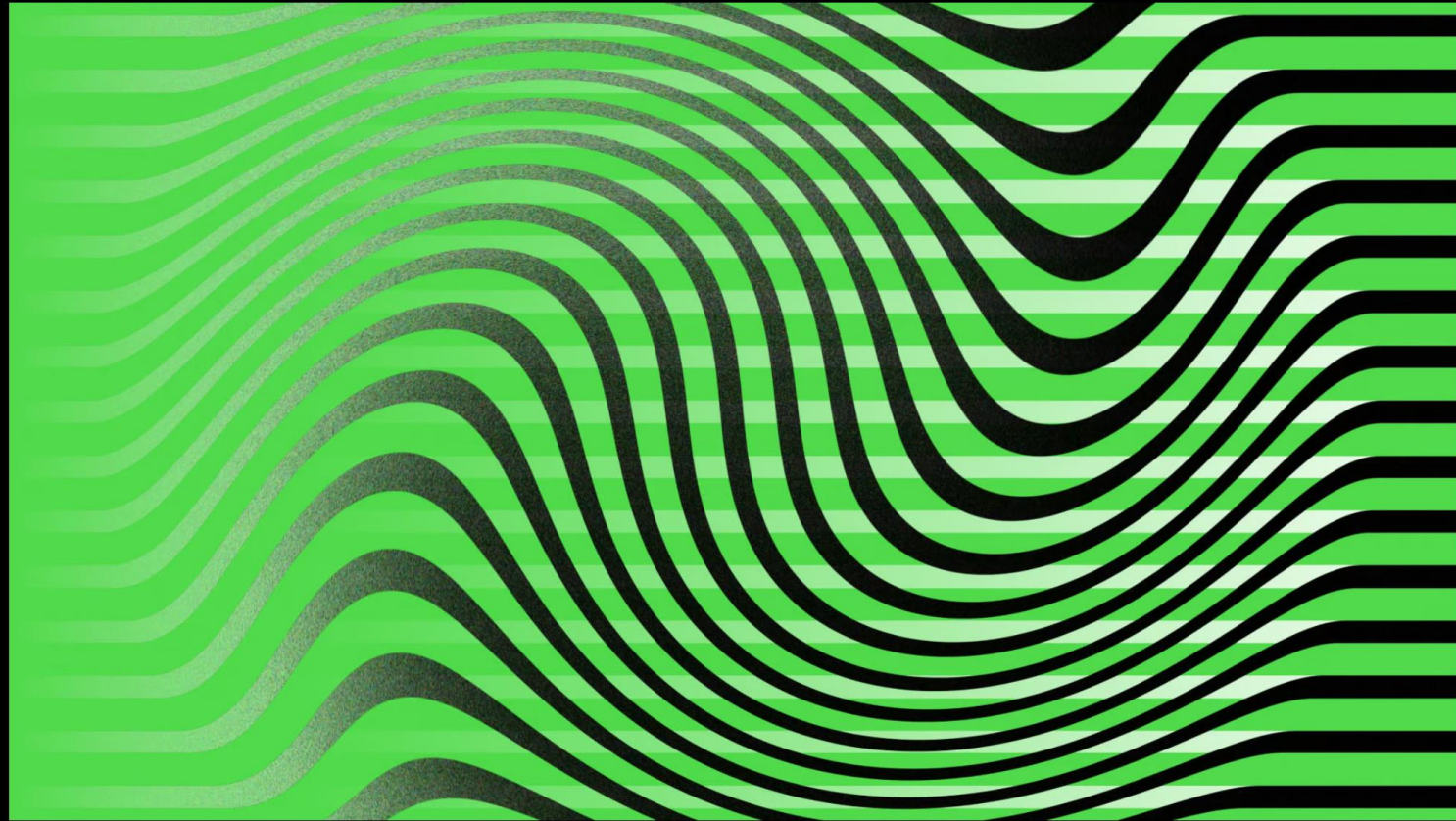


Illustration: Ruby Chen

We've trained and are open-sourcing a neural net called Whisper that approaches human level robustness and accuracy on English speech recognition.

Services

- [Subtitle Edit Online](#)

Software

- [Subtitle Edit](#)
 - [Help/FAQ](#)
 - [Videos](#)
- [Xml Content Translator](#)

Subtitle formats

- [SubRip](#)
- [ASSA](#)
 - [ASSA override tags](#)

Download

- [Subtitle Edit 4.0.3](#)
- [Xml Content Translator 1.12](#)

About/contact

- [About me](#)
- [Email](#)

Donate

- [Donate](#)

Subtitle Edit

Overview

Subtitle Edit is a free (open source) editor for video subtitles - a subtitle editor :)

With SE you can easily adjust a subtitle if it is out of sync with the video in [several different ways](#).

You can also use SE for making new subtitles from scratch (do use the time-line/waveform/spectrogram) or translating subtitles.

For a list of features see below or check out the [Subtitle Edit Help](#) page.

On [my blog](#) you can download latest beta version and read about/discuss new features.

Also, you can [watch a few videos](#) about installing and using Subtitle Edit.

A Subtitle Edit dll (LibSe.dll) is available for programmers (BSD New/Simplified license). Compile it from source code or use the [NuGet package](#).

[Download latest version of Subtitle Edit](#)

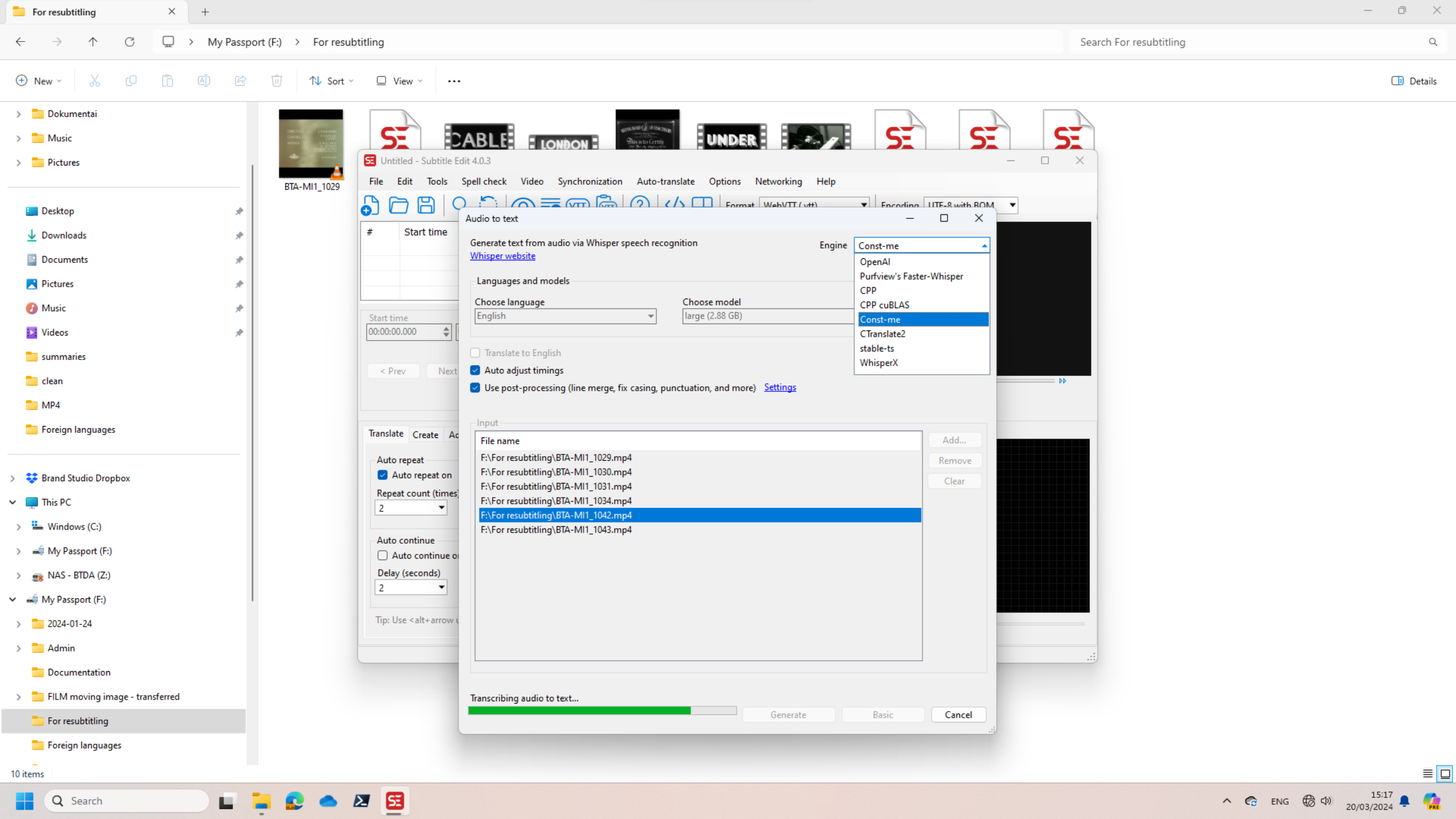
Note: SE requires Microsoft .NET Framework Version 4.8

Get the [full C# source code](#) - GPL or LGPL license

Blu-ray sup reading [code](#) is under the Apache License and Matroska subtitle parsing uses [zlib code](#) with a BSD style license.

Features

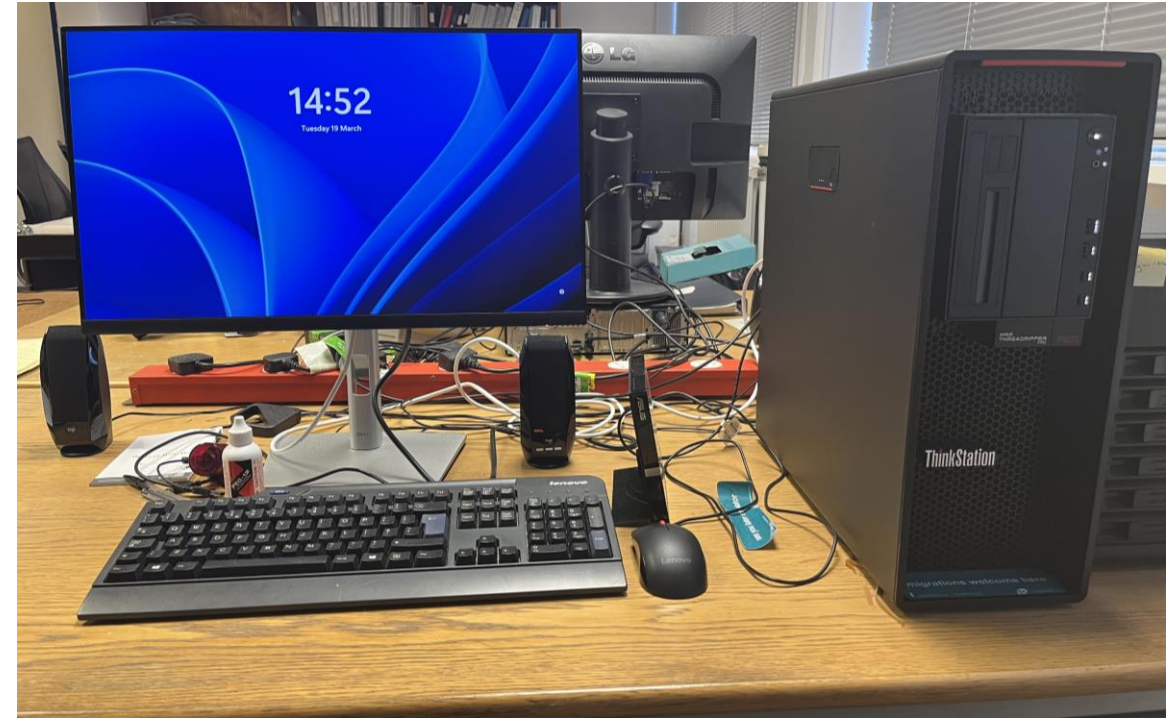
- Create/adjust/sync/translate subtitle lines
- Convert between SubRib, MicroDVD, Advanced Sub Station Alpha, Sub Station Alpha, D-Cinema, SAMI, youtube sbv, and many more (**300+ different formats!**)
- Cool **audio visualizer** control - can display wave form and/or spectrogram
- Video playback uses [mpv](#), DirectShow, or [VLC media player](#)
- **Visually sync**/adjust a subtitle (start/end position and speed)
- Audio to text (speech recognition) via Whisper or Vosk/Kaldi
- Text to Translation via Google translate
- Rip subtitles from [matroska](#) (converted) dvd
- Import and OCR VobSub sub/idx binary subtitles
- Import and OCR Blu-ray .sup files - bd sup reading is based on Java code from [BDSup2Sub](#) by 0xdeadbeef
- Can open subtitles embedded inside [Matroska](#) files
- Can open subtitles (text, closed captions, VobSub) embedded inside mp4/mv4 files
- Can open/OCR XSub subtitles embedded inside divx/avi files
- Can open/OCR DVB and teletext subtitles embedded inside .ts/.m2ts (Transport Stream) files
- Can open/OCR Blu-ray subtitles embedded inside .m2ts (Transport Stream) files
- Can read and write both **UTF-8 and other unicode files** and ANSI (support for all languages/encodings on the pc!)
- Sync: Show texts earlier/later + point synchronization + synchronization via other subtitle
- Merge/split subtitles
- Adjust display time
- **Fix common errors wizard**
- Spell checking via [Libre Office dictionaries](#) (many dictionaries available)
- **Remove text for hear impaired (HI)**
- Renumbering
- Effects: Typewriter and karaoke
- History/undo manager (Undo=Ctrl+z, Redo=Ctrl+y)





2015 MacBook Pro

- Windows 10
- 3.1GHz dual-core Intel Core i7 processor
- 16GB 1866MHz memory
- Intel Iris Graphics 6100



Lenovo P620 Workstation

- Windows 11
- AMD Ryzen Threadripper PRO 5955WX processor
- 64 GB DDR4-3200MHz
- NVIDIA RTX A2000 12GB GDDR6

Start time

00:02:43.001

Duration

5.999

< Prev

Next >

Text

Two electrodes are paid out over the stern and towed in the wake of the ship.

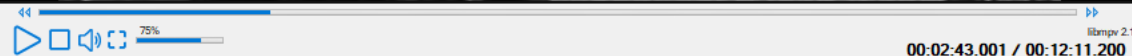
Single line length: 36/40

Chars/sec: 12.67

Unbreak

Auto br

Total length: 76



Tip: Use <alt+arrow up/down> to go to previous/next subtitle

Two electrodes are paid out over the stern and towed in the wake of the ship.

From the shore, an electric current is passed out along the cable.

#22 5.999

#23 5.999

100%

Assisted description

OpenAI

Research

API

ChatGPT

Safety

Company

Search

Log in

Try ChatGPT

ChatGPT

OverviewTeamEnterprisePricing

9:41

ChatGPT

4.6

I am hosting my friends for brunch on Sunday and they are asking what to bring. Could you give me a list of suggestions? I'll be making a trifecta and miso soup.

ChatGPT

Of course! Here's a list of brunch items your friends could bring:

1. Fresh fruit salad or a fruit platter

2. Pastries or croissants

3. Bruschetta with cream cheese and smoked salmon

4. Yogurt with granola and berries

5. Breakfast potatoes or hash browns

6. Scrambled or poached eggs

7. Quiches or savory tarts

8. Pancakes or waffles with syrup

9. Coffee or tea

10. Freshly squeezed orange juice

These options can complement your trifecta and miso soup nicely and provide a variety of flavors for your brunch gathering.

ChatGPT 3.5

ask gpt for a moment and then we started again.

Can you give me feedback on my short story?

ChatGPT

Your writing is engaging and provides insight into the protagonist's feelings and past experiences. You effectively use descriptive language to paint a picture of the setting and the characters. The dialogue between the protagonist and their father feels natural and adds depth to the story. Additionally, your writing style is clear and easy to follow. However, there are a few areas where you could improve:

1. Punctuation and grammar: There are some minor punctuation and grammar issues throughout the text that could be polished for a smoother reading experience.

2. Clarity: Some parts of the story could benefit from a bit more clarity or elaboration, especially in the transition between scenes and the protagonist's internal thoughts.

3. Show, don't tell: While you do a good job of describing the physical setting, there are moments where you tell the reader about the character's feelings and past experiences. Consider showing these emotions through actions, dialogue, or internal monologue to make the narrative more immersive.

Overall, your writing is well-crafted and engaging, with room for minor improvements in mechanics and clarity. Keep up the good work!

Message ChatGPT...

ChatGPT can make mistakes. Consider checking important information.

ChatGPT

Get instant answers, find creative inspiration, learn something new.

Download on the App Store

GET IT ON Google Play

Try on web

Ask me anything

Teach me to negotiate

Help me train for a half marathon

Explain why popcorn pops

Microsoft Edge

Features & Tips

Performance

Gaming

Productivity

Security

AI innovations

Accessibility & tools

Edge at work

Design

Search

Now Copilot!

Bing Chat is now Copilot. The AI-powered feature that helps you do more than you ever thought possible, built right into your browser.

Go to Copilot

FEATURE AI-POWERED

Bing Chat

With the new Bing built into the Microsoft Edge sidebar, you can ask complex questions, find comprehensive answers, get summarized information, find inspiration to build upon all in a side-by-side view, with no need to flip between tabs.

Try now

How do I access Bing in the sidebar?
To try Bing Chat, sign into Microsoft Edge and select the Bing chat icon in the browser toolbar. Feature availability and functionality may vary.

Do you have examples of what Chat can do?
Chat in the Edge sidebar has all the search and creative capabilities of Bing Chat and more. In the sidebar, Chat can also perform searches and...

2 more questions...

Tips and Tricks

Get summaries and



Data Science

Want to get more value from data? Or want to get your existing models into production quicker? No matter your CFU, we're here to help you!

Digital's Data Science team can support you to **accelerate** the generation of value from data. We provide guidance, expertise, talented resource and templates to help colleagues extract insight from data faster and at scale.

We have in-house data scientists and analysts, ML engineers and platform specialists, together with a range of existing AI-based models that can be tailored and deployed across the business.



[Click here to request a collaboration with us or to raise queries.](#)

More about what we do



Watch our video to hear from Zoe Webster, AI Director in Data and AI, and find out more about what we do.

What is Data Science, AI and ML?


You'll hear the terms Data Science, Artificial Intelligence (AI) and Machine Learning (ML) a lot!

ML is a form of AI and Data Science can employ AI to derive insight from data. AI is just one way to generate value from data, but we think it has a lot to

Computer programs with the ability to learn and reason like humans



Use of LLMs in BT archive cataloguing 🟡 General

 Elder, JR, James, SCA R
To: 🟡 Webster, Z, Zoe, QMC R; 🟡 Withers, C, Chris, QMA R

😊 ↩ Reply ↩ Reply all ➡ Forward 📧 📁 🗂 ⋮
Tue 2023-07-18 09:23

Dear **Zoe** and Chris

I'm not sure if this is the right way of doing this, but I just wanted to register the interest of BT Group Archives in the use of LLM-based tools as part of our work.

I've already identified a use case and have done some experiments with Bing (using non-sensitive data) and have got very promising results, although I'm bumping up against the 4000-character limit on input text.

The context is that here in BT Group Archives we look after the corporate memory and those records that need to be retained permanently. One of our main resources is an archive catalogue which we populate with descriptive and technical metadata about what we hold. Hence we have a need to write descriptive summaries of records or sets of records.

At the moment one of our projects is the digitisation of a lot of vulnerable videotape from the early 1980s. Because we don't have a compatible tape player for this format, the contents are generally unseen until we get the transfers back from the contractor.

I am already making use of LLM-based software in the form of a C++ port of OpenAI Whisper (which we run locally on a standalone Lenovo workstation which we have purchased) to generate subtitles from the audio of the scanned videos. This has proved a great success, with Whisper matching its claimed accuracy of 99%, meaning we'll be able to provide accurate subtitles when we put the videos online. I have though now also done a few experiments taking the subtitle file, converting it to plain text and feeding it to Bing, asking it to produce a summary suitable for use in an archive catalogue.

I attach an example of a film, the VTT subtitle file, the plaintext conversion of that file and the summary that Bing produced.

 [AI demonstration](#)

As you can see, it did a good job – and this would be suitable for use in our archive catalogue. Given that we have several hundred such summaries to produce every year, this would represent a major time saving for the Archives Team (which consists of only 4 people).

However, this transcript was just over the 4000 characters that Bing will accept as input text and hence I can't easily give it longer transcripts to work on. Moreover, with access only to the Bing tool in Edge I can't automate the process.

Is this something you could help with? Is there a pilot in which we could participate?

In the future, we also anticipate that a deep learning based system might be able to go a step further and base its summary on the visual content of the film as well as the transcribed audio.

I should note by the way that Anne Archer (Head of BT Group Archives) and I have already had conversations with Detlef Nauck, Andy Gower, Robert Hercock and Leah Claireaux about the work they are doing and potential uses within Archives.

I look forward to hearing from you. Many thanks in advance for your time.

James Elder
[Archives Professional](#)

How to go about it...?

Four tasks

Machine-readable input

Already nearly ready, but some tidying needed.

Choose a model

Requirements:

- Open source
- Able to run locally
- Suitable for our resources

Write a prompt

Aims:

- Explain the task
- Include all the information we already have
- Pull together the 4000 character sections
- Get a suitable tone in the output

Choose settings

- Get the use of resources right

Machine readable input

WEBVTT

00:00:05.400 --> 00:00:07.890
This was the site of
Goonhilly radio station

00:00:07.902 --> 00:00:11.700
near Helston in Cornwall,
England in the spring

00:00:12.001 --> 00:00:16.000
of 1961 when work
started on the first Post

00:00:16.001 --> 00:00:19.500
Office aerial for satellite
communication tests.

00:00:23.001 --> 00:00:28.000
The site stands on the largest
deposit of serpentine in Cornwall.

00:00:28.001 --> 00:00:31.448
This rock breaks the
surface, is over 1,000

00:00:31.460 --> 00:00:37.900
feet deep and it stretches for at least
half a mile in all directions from the site.

00:00:41.001 --> 00:00:48.000
Pilot holes show that the
cover is only 18 inches to 2

00:00:48.001 --> 00:00:54.600
feet deep and it is very
easy to get down to bedrock.

00:01:01.001 --> 00:01:05.540
The rock itself,
serpentine, though not very

00:01:05.552 --> 00:01:10.000
hard, is tough, does
not cleave readily and

00:01:10.001 --> 00:01:18.000
it forms an ideal foundation for the
concrete base of a delicate instrument.

00:01:18.001 --> 00:01:25.000

This was the site of Goonhilly radio station
near Helston in Cornwall, England in the spring
of 1961 when work started on the first Post
Office aerial for satellite communication tests.

The site stands on the largest deposit of serpentine in Cornwall.

This rock breaks the surface, is over 1,000
feet deep and it stretches for at least half a mile in all directions from the site.

Pilot holes show that the cover is only 18 inches to 2
feet deep and it is very easy to get down to bedrock.

The rock itself, serpentine, though not very
hard, is tough, does not cleave readily and
it forms an ideal foundation for the concrete base of a delicate instrument.

The circular track on which the aerial will rotate is some 40 feet in diameter and will
have running upon it a roller race supporting
the whole of the aerial system and allowing
it to turn in azimuth to any angle, that is to any bearing with respect to true north.

The track was machined in one of the very few factories capable of doing it.

It is of course in sections but these were all laid together in the factory for this
machining operation and then the sections
were sent separately to site and reassembled there.

A frames for supporting the top beam about
which the aerial pivots were cast on the ground
on either side of their final positions and then raised.

The bars projecting from the ends being welded up then encased in concrete.

The centre portal was cast in situ and the beam which Bridges the three frames.

The whole of the concrete work turns with the aerial.

The top beam has tubes set within it through

Choosing a model

Meta

Llama 2

Purple Llama

Community Stories

Get started

Download models

Large language model

Llama 2: open source,
free for research and
commercial use

We're unlocking the power of these large language models. Our latest version of Llama - Llama 2 - is now accessible to individuals, creators, researchers, and businesses so they can experiment, innovate, and scale their ideas responsibly.

Download the model

Llama 2

Llama-2-7B

Llama-2-13B

Llama-2-70B

Available as part of the Llama 2 release

Get started guide

With each model download you'll receive:

Model code

Model weights

README (user guide)

Responsible use guide

License

Acceptable use policy

Model card

Technical specifications

Llama 2 was pretrained on publicly available online data sources.

Developers

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Business

About Us

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Le Chat

AI models

Optimized

Open

We're committed to empowering the AI community with open technology. Our open models sets the bar for efficiency, and are available for free, with fully permissive license.

Mistral 7B

Our very first. A 7B transformer model, fast-deployed and easily customisable. Small, yet very powerful for a variety of use cases.

English and code

32k context window

Mixtral 8x7B

Currently the best open model. A 7B sparse Mixture-of-Experts (SMoE). Uses 12B active parameters out of 45B total.

Fluent in English, French, Italian, German, Spanish, and strong in code

32k context window

Apache 2.0 License

Concise, useful, unopinionated, with fully modular moderation control

Access on la Plateforme

Download

Performance first

We're constantly innovating to provide the most capable and efficient models.

State-of-the-art technology

Mistral ranks second among all models generally available through an API, and provide top-tier reasoning capabilities.

Measured independently

Our technology is regularly compared to the competition by independent

NEW

Create Assistants in HuggingChat

The AI community building the future.

The platform where the machine learning community collaborates on models, datasets, and applications.

Tasks

Libraries

Datasets

Languages

Licenses

Other

Multimodal

Text-to-Image

Image-to-Text

Text-to-Video

Visual Question Answering

Document Question Answering

Graph Machine Learning

Computer Vision

Depth Estimation

Image Classification

Object Detection

Image Segmentation

Image-to-Image

Unconditional Image Generation

Video Classification

Zero-Shot Image Classification

Natural Language Processing

Text Classification

Token Classification

Table Question Answering

Question Answering

Zero-Shot Classification

Translation

Summarization

Conversational

Text Generation

Text2Text Generation

Sentence Similarity

Audio

Text-to-Speech

Automatic Speech Recognition

Audio-to-Audio

Audio Classification

Voice Activity Detection

Tabular

Tabular Classification

Tabular Regression

Reinforcement Learning

Reinforcement Learning

Robotics

Models 469,541

Filter by name

meta-llama/Llama-2-70b

Text Generation • Updated 4 days ago • \pm 25.2k • \heartsuit 64

stabilityai/stable-diffusion-xl-base-0.9

Updated 6 days ago • \pm 2.01k • \heartsuit 393

openchat/openchat

Text Generation • Updated 2 days ago • \pm 1.3k • \heartsuit 136

llyasviel/ControlNet-v1-1

Updated Apr 26 • \heartsuit 1.87k

cerspense/zeroscope_v2_XL

Updated 3 days ago • \pm 2.66k • \heartsuit 334

meta-llama/Llama-2-13b

Text Generation • Updated 4 days ago • \pm 328 • \heartsuit 64

tiiuae/falcon-40b-instruct

Text Generation • Updated 27 days ago • \pm 288k • \heartsuit 899

WizardLM/WizardCoder-15B-V1.0

Text Generation • Updated 3 days ago • \pm 12.5k • \heartsuit 332

CompVis/stable-diffusion-v1-4

Text-to-Image • Updated about 17 hours ago • \pm 448k • \heartsuit 5.72k

stabilityai/stable-diffusion-2-1

Text-to-Image • Updated about 17 hours ago • \pm 782k • \heartsuit 2.81k

Salesforce/xgen-7b-8k-inst

Text Generation • Updated 4 days ago • \pm 6.18k • \heartsuit 57

Trending on this week

Models

xai-org/grok-1

Updated 3 days ago • \heartsuit 1.48k

stabilityai/sv3d

Updated 3 days ago • \heartsuit 285

google/gemma-7b

Updated 23 days ago • \pm 286k • \heartsuit 2.54k

Spaces

AI Comic Factory

\heartsuit 5.09k

Open LLM Leaderboard

\heartsuit 8.59k

Leonardo AI Image Creator

\heartsuit 435

Datasets

hollyyfc/tidyuesday_for_python

Updated 29 days ago • \pm 43 • \heartsuit 63

LeoZhangzaolin/Graptoloidea-Specimens-Imaging

Updated 3 days ago • \pm 6 • \heartsuit 57

ShimizuYuki/Marvel_network

Updated 4 days ago • \pm 127 • \heartsuit 52



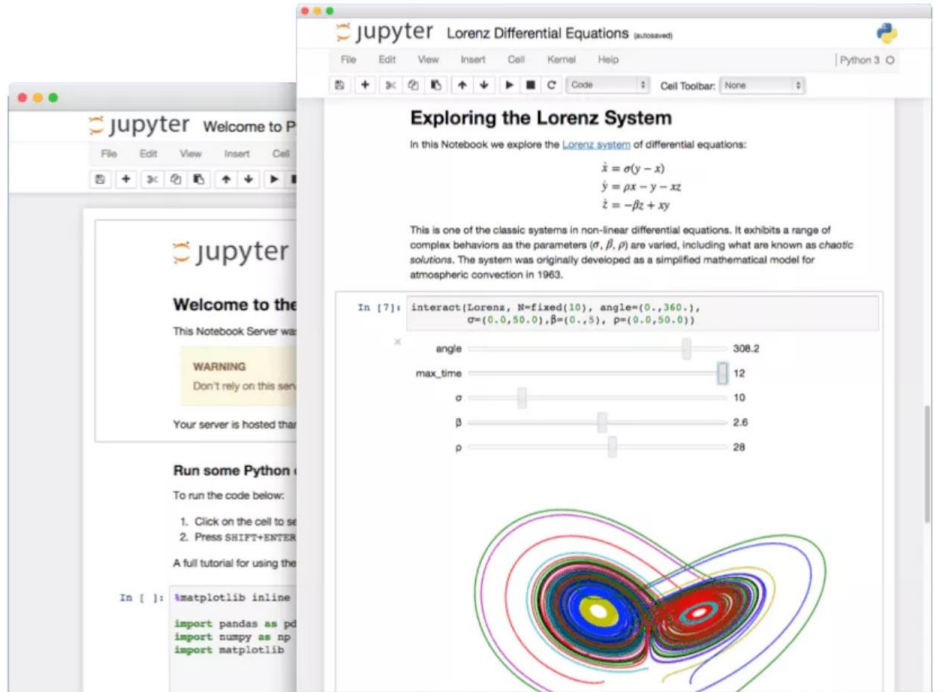
Writing a prompt

Jupyter Notebook: The Classic Notebook Interface

The Jupyter Notebook is the original web application for creating and sharing computational documents. It offers a simple, streamlined, document-centric experience.

Try it in your browser

Install the Notebook



Share notebooks

Notebooks can be shared with others using email, Dropbox, GitHub and the [Jupyter Notebook Viewer](#).



Interactive output

Your code can produce rich, interactive output: HTML, images, videos, LaTeX, and custom MIME types.



Big data integration

Leverage big data tools, such as Apache Spark, from Python, R, and Scala. Explore that same data with pandas, scikit-learn, g

TensorFlow.



Home

llama_cpp_cmd_sum-v1.6

localhost:8888/notebooks/llama_cpp_cmd_sum-v1.6.ipynb

ListsFilm PlannerWorkplaceTeamFilmEnquiriesBT ArchivesCatalogueInfo sheetsImage libraryPreserviaUAPFavouritesOther favourites

jupyter llama_cpp_cmd_sum-v1.6Last Checkpoint: last month

FileEditViewRunKernelSettingsHelp

Trusted

JupyterLabPython 3 (ipykernel)

```
print(tsc_filepath)
else:
    print("Transcript file is not available")
    ValueError("Transcript:" + tsc_filepath + " is missing.")
tsc_file=open(tsc_filepath,"r")
tsc=tsc_file.read()
tsc=tsc.strip()

filename, ext = os.path.splitext(os.path.basename(tsc_filepath))
name_only = filename.split('.')[0]

instruction="""<s>[INST]<<SYS>>You are a helpful summarising assistant."""

# handle nan case when field is not populated, it is assumed to be float by pandas and set to NaN
if(isinstance(distribution,float)):
    if math.isnan(distribution):
        distribution=""

instruction+= "The following text is a transcript of a film called '{} ' ".format(title)
if (instance(subtitle,float)):
    if not(math.isnan(subtitle)):
        instruction+=" and subtitled '{} ' ".format(subtitle)

instruction+= "The film was created either by the British telecommunications company British Telecom or its predecessor the Post Office in the {}.".f

instruction+= " The film was intended to be seen by {}.".format(distribution)

instruction+= " The purpose of the film is {}.".format(purpose)

instruction+= " and the specific subject is {}.".format(subject)

footer_instruction="Please describe the content of the film, and summarise the main points in a form suitable for an archive catalogue description. D

context=instruction+ "\n[TRANSCRIPT]\n" + tsc + "\n[/TRANSCRIPT]\n" + footer_instruction + "<</SYS>>[/INST]" + ANSWER_FLAG
print("prompt header: "+context[1:100])

prompt_path= prompt_dir+ "/prompt_" + name_only + "_lmcpp.txt" # can include date
print(prompt_path)
prompt_file = open(prompt_path,"w")
prompt_file.write(context)
prompt_file.close()

return prompt_path, name_only
```

13:24

21/03/2024



Choosing settings

Home

llama_cpp_cmd_sum-v1.6

localhost:8888/notebooks/llama_cpp_cmd_sum-v1.6.ipynb

Lists

Film Planner

Workplace

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Film

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Catalogue

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Image library

Preservica

UAP

Favourites

Other favourites

jupyter llama_cpp_cmd_sum-v1.6 Last Checkpoint: last month

File Edit View Run Kernel Settings Help

Trusted

JupyterLab Python 3 (ipykernel)

Summarise Archive transcripts

Using llms and llama.cpp for GPU+CPU inference on quantised models

Packages setup

[1]: !pip install pandas openpyxl

Requirement already satisfied: pandas in c:\users\bther\appdata\local\programs\python\python311\lib\site-packages (2.1.3)

Requirement already satisfied: openpyxl in c:\users\bther\appdata\local\programs\python\python311\lib\site-packages (3.1.2)

Requirement already satisfied: numpy<2,>=1.23.2 in c:\users\bther\appdata\local\programs\python\python311\lib\site-packages (from pandas) (1.26.2)

Requirement already satisfied: python-dateutil>=2.8.2 in c:\users\bther\appdata\local\programs\python\python311\lib\site-packages (from pandas) (2.8.2)

Requirement already satisfied: pytz>=2020.1 in c:\users\bther\appdata\local\programs\python\python311\lib\site-packages (from pandas) (2023.3.post1)

Requirement already satisfied: tzdata>=2022.1 in c:\users\bther\appdata\local\programs\python\python311\lib\site-packages (from pandas) (2023.3)

Requirement already satisfied: et-xmlfile in c:\users\bther\appdata\local\programs\python\python311\lib\site-packages (from openpyxl) (1.1.0)

Requirement already satisfied: six>=1.5 in c:\users\bther\appdata\local\programs\python\python311\lib\site-packages (from python-dateutil>=2.8.2->pandas) (1.16.0)

[2]: import os , subprocess, re

Config

[3]: tsc_raw_dir="C:/Users/bther/Documents/Transcripts for LLM project/land"

tsc_clean_dir="C:/Users/bther/Documents/Transcripts for LLM project/clean"

prompt_dir="C:/Users/bther/Documents/Transcripts for LLM project/prompts"

summaries_dir="C:/Users/bther/Documents/Transcripts for LLM project/summaries"

llama_cpp_dir="C:/Program Files/Llama-cpp" # assumes it is already setup with GPU capabilities

metadata_file="C:/Users/bther/Documents/Transcripts for LLM project/Metadata.xlsx"

model_repo="C:/Program Files/Llama-cpp/models"

model_file="zephyr-7b-beta.Q8_0.gguf" # 35 layers

#model_file="mistral-7b-instruct-v0.1.Q8_0.gguf" # 35 layers

#model_repo="/raid/models/LLms/LLama2"

#model_file="Llama-2-13b-chat.Q5_K_M.gguf" # 40 layers

#model_file="Llama-2-13b-chat.Q8_0.gguf"

#model_file="Llama-2-70b-chat.Q4_K_M.gguf" # 83 layers

ctx_size=6000

#ctx_size is the max input tokens. Changed to 6000 to address error with longer files.

temp=0.1

13:23

21/03/2024



The results and the future

Title: Goonhilly Radio Station - Aerial Construction

This film, produced by either British Telecom or its predecessor the Post Office in the 1960s, documents the construction of the first Post Office aerial for satellite communication tests at Goonhilly radio station near Helston in Cornwall, England. The site is located on serpentine rock, which provides an ideal foundation for the concrete base due to its toughness and lack of cleavage. The circular track for the rotating aerial is machined in sections and assembled on-site, while frames for supporting the top beam are cast on either side of their final positions and then raised. The top beam has tubes set within it for tensioning bars, which are prestressed to 1200 pounds per square inch using a hydraulic tensometer. Four elevation bearings are lifted into position, with alignment affected optically through a disc in the centre of each housing. The steel work for supporting the bowl is erected, and concrete counterbalance weight boxes are hung beneath the beam to balance its weight. Ribs are placed in position, and steel plates form the reflector surface. Profile checking is carried out against an accurate template, and the finished bowl can be tipped through 100 degrees using a screw from the bottom housing. The aerial can be controlled locally or from a central control tower, and the driver watches it during active passes. Goonhilly Aerial has already successfully communicated with the Telstar satellite over 100 times and is ready to communicate with other targets.

IDENTITY

FindingNumber	BTA-MI1/0286	ContextRef	BTA/6 MI/MI1/0286
PreviousCatalogueNumbers	FILM 1022		
Series			
Title	Goonhilly Radio Station - aerial construction		
SubTitle			
Alternative Titles			
Title Translation			
Date	1961	Year	1961
			Decade 1960s
Level	Item		

CONTEXT

Creator Name	
Cast And Crew	
Admin History	
Distribution	Unknown
Awards	
Notes	<p>The text in the Description field was produced by a Large Language Model (Zephyr 7b beta - a fine-tuned version of Mistral 7b beta) from a transcript of the voiceover (which itself was produced using OpenAI Whisper). The LLM-generated text was then proofread and edited by James Elder.</p> <p>This access copy appears to be a telecine transfer by Planet TV of a 16mm print. This print was in better condition than that transferred to 1 inch videotape and held as BTA-MI2/5/014.</p>

CONTENT

Function Of Film	Documenting events	Film Subject	Satellite telecommunications
Training Type		Internal Communication Type	
Event Documented	Goonhilly construction and modifications	Subject Of Promotion	
Description	<p>This film, produced by the Post Office in 1961, documents the construction of the first Post Office aerial for satellite communication tests at Goonhilly radio station near Helston in Cornwall, England. The site is located on serpentine rock, which provides an ideal foundation for the concrete base due to its toughness and lack of cleavage. The circular track for the rotating aerial is machined in sections and assembled on-site, while frames for supporting the top beam are cast on either side of their final positions and then raised. The top beam has tubes set within it for tensioning bars, which are prestressed to 1200 pounds per square inch using a hydraulic tensometer. Four elevation bearings are lifted into position, with alignment affected optically through a disc in the centre of each housing. The steel work for supporting the bowl is erected, and concrete counterbalance weight boxes are hung beneath the beam to balance its weight. Ribs are placed in position, and steel plates form the reflector surface. Profile checking is carried out against an accurate template, and the finished bowl can be tipped through 100 degrees using a screw from the bottom housing. The aerial can be controlled locally or from a central control tower, and the driver watches it during active passes. Goonhilly's aerial has already successfully communicated with the Telstar satellite over 100 times and is ready to communicate with other targets.</p>		
Transcript			
Shot List			
Footage Type	Final version		
Variant			

BROWSE ARCHIVE

search

ARCHIVE Q

0286 - Goonhilly Radio Station - aerial constru...

Object Type: Asset

Browse Archive > ... > 0286 - Goonhilly Radio Station - aerial construction



0286 - Goonhilly Radio Station - aerial construction

This film, produced by the Post Office in 1961, documents the construction of the first Post Office aerial for satellite communication tests at Goonhilly radio station near Helston in Cornwall, England. The site is located on serpentine rock, which provides an ideal foundation for the concrete base due to its toughness and lack of cleavage. The circular track for the rotating aerial is machined in sections and assembled on-site, while frames for supporting the top beam are cast on either side of their final positions and then raised. The top beam has tubes set within it for tensioning bars, which are prestressed to 1200 pounds per square inch using a hydraulic tensometer. Four elevation bearings are lifted into position, with alignment affected optically through a disc in the centre of each housing. The steel work for supporting the bowl is erected, and concrete counterbalance weight boxes are hung beneath the beam to balance its weight. Ribs are placed in position, and steel plates form the reflector surface. Profile checking is carried out against an accurate template, and the finished bowl can be tipped through 100 degrees using a screw from the bottom housing. The aerial can be controlled locally or from a central control tower, and the driver watches it during active

passes. Goonhilly's aerial has already successfully communicated with the Telstar satellite over 100 times and is ready to communicate with other targets.

Catalogue

Finding Number: BTA-M11/0286

Date: 1961

Period: 1960s

Level: Item

Distribution: Unknown

Film function: Documenting events

Film subject: Satellite telecommunications

Event documented: Goonhilly construction and modifications

Year: 1961

Repository: BT Archives (ARCHON 1814)

Show less ▲




Learning points

- The right hardware makes a huge difference
- There must be a human in the loop
- Not suitable for all types of content
- LLMs are inconsistent
- The potential is huge

Future projects

<https://www.sciencemuseumgroup.org.uk/projects/the-congruence-engine>
<https://ceblog.sciencemuseumgroup.org.uk/>



Gemini 1.0 Pro Vision

Created from the ground up to be multimodal (text, images, videos) and to scale across a wide range of tasks

[OPEN IN VERTEX AI STUDIO](#)[CO OPEN NOTEBOOK](#)[VIEW CODE](#)

OVERVIEW

USE CASES

DOCUMENTATION

Overview

Gemini 1.0 Pro Vision is a Gemini large language vision model that understands input from text and visual modalities (image and video) in addition to text to generate relevant text responses.

Gemini 1.0 Pro Vision is a foundation model that performs well at a variety of multimodal tasks such as visual understanding, classification, summarization, and creating content from image and video. It's adept at processing visual and text inputs such as photographs, documents, infographics, and screenshots.

Model name	Input data	Output data	Description
Gemini 1.5 Pro	Text, image, video, and audio	Text	Massive context understanding with up to 1M input tokens and robust multimodal input (text, image, video and/or audio)
Gemini 1.0 Pro	Text	Text	The best performing model with features for a wide range of tasks.
Gemini 1.0 Pro Vision	Image and text	Text	The best performing image understanding model to handle a broad range of applications.

Use cases

- Visual information seeking:** Use external knowledge combined with information extracted from the input image or video to answer questions.
- Object recognition:** Answer questions related to fine-grained identification of the objects in images and videos.
- Digital content understanding:** Answer questions and extract information from visual content like infographics, charts, figures, tables, and web pages.
- Structured content generation:** Generate responses based on multimodal inputs in formats like HTML and JSON.
- Captioning and description:** Generate descriptions of images and videos with varying levels of details.
- Reasoning:** Compositionally infer new information without memorization or retrieval.

Model ID
publishers/google/models/gemini-pro-vision

Version name
google/gemini-1.0-pro-vision

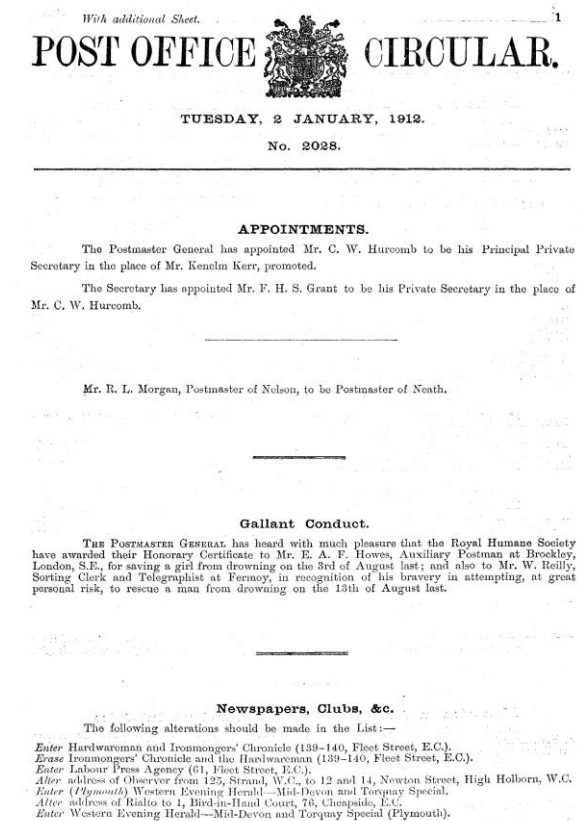
Tags

Task

GenerationExtractionRecognition

Skill level

BeginnerIntermediate





Thankyou

BT Group

