



digital nirvana

Innovation at Work

AI/ML Revolutionizing Content Creation & Distribution

Company Overview



San Francisco Bay Area headquartered;
Global offices serving clients since 1996



750+ employees worldwide; Global sales,
development, and support teams



Innovator in AI & ML empowered technologies
for content creation and distribution

Serving some of the
largest media companies
around the globe

TMZ

turner

Discovery

USTA

VIACOM 18

Fast and compliant content production and delivery with AI-empowered workflows



Applications

Metadata Generation

Caption Generation

Compliance Logging

Caption Pre-sets to Style Guides

Video Metadata

Translations

Identification of Explicit Content

Automatic Transcription



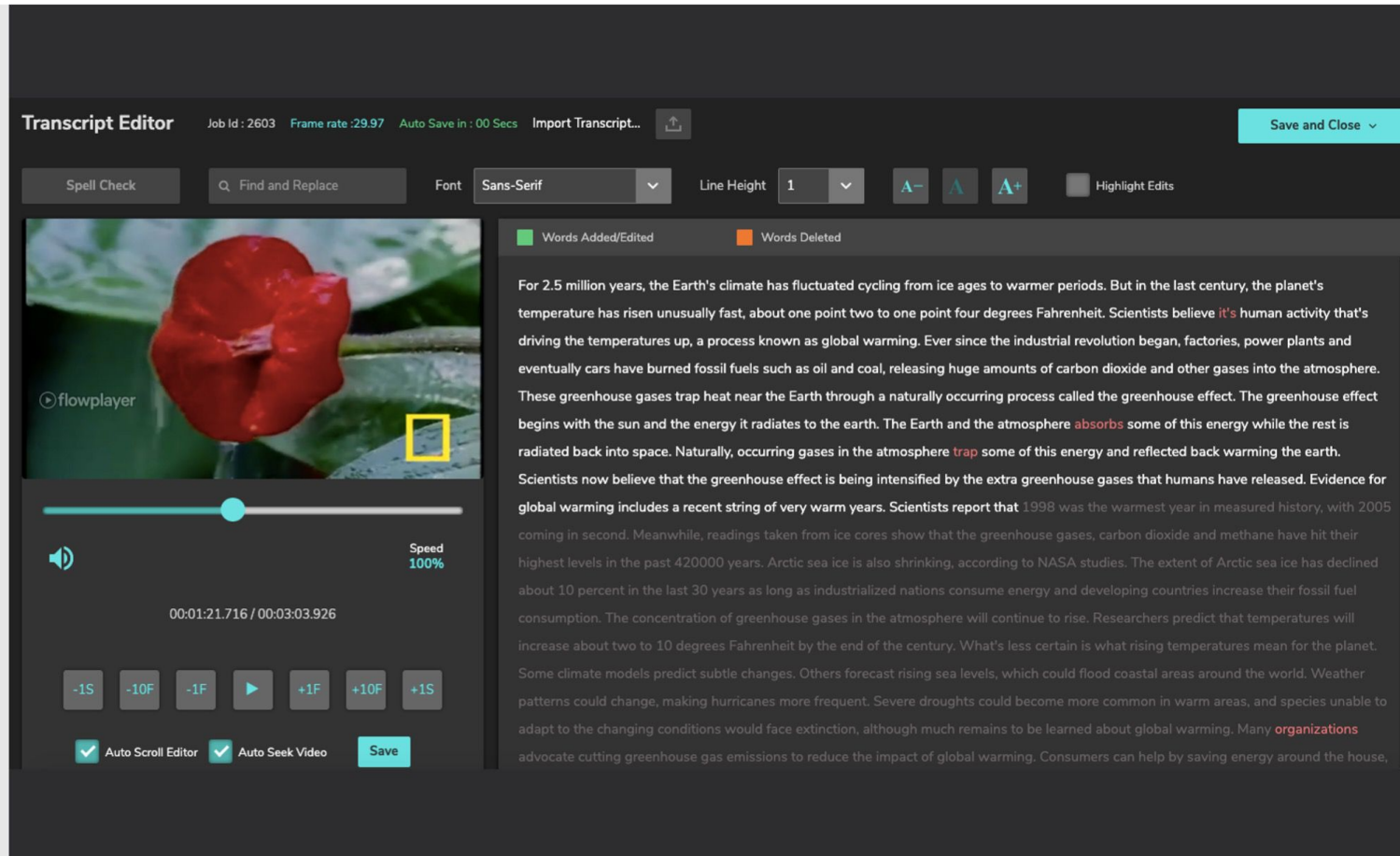
Business Challenges:

- Raw footage and field recordings not searchable based on spoken content
- 15-20 hours to create a standard montage clip
- Reduced turnaround for captions for sports clips, promos, and alert news clips that are published to web



Solutions:

- Portal/API based speech-to-text conversion and returning to MAM
- Searchable video reducing standard montage clip creation to 2 hours
- Faster generation of captions with real-time transcripts



Transcript Editor Job Id : 2603 Frame rate :29.97 Auto Save in : 00 Secs Import Transcript... Save and Close

Spell Check Find and Replace Font Sans-Serif Line Height 1 Highlight Edits

Words Added/Edited Words Deleted

For 2.5 million years, the Earth's climate has fluctuated cycling from ice ages to warmer periods. But in the last century, the planet's temperature has risen unusually fast, about one point two to one point four degrees Fahrenheit. Scientists believe it's human activity that's driving the temperatures up, a process known as global warming. Ever since the industrial revolution began, factories, power plants and eventually cars have burned fossil fuels such as oil and coal, releasing huge amounts of carbon dioxide and other gases into the atmosphere. These greenhouse gases trap heat near the Earth through a naturally occurring process called the greenhouse effect. The greenhouse effect begins with the sun and the energy it radiates to the earth. The Earth and the atmosphere absorbs some of this energy while the rest is radiated back into space. Naturally, occurring gases in the atmosphere trap some of this energy and reflected back warming the earth. Scientists now believe that the greenhouse effect is being intensified by the extra greenhouse gases that humans have released. Evidence for global warming includes a recent string of very warm years. Scientists report that 1998 was the warmest year in measured history, with 2005 coming in second. Meanwhile, readings taken from ice cores show that the greenhouse gases, carbon dioxide and methane have hit their highest levels in the past 420000 years. Arctic sea ice is also shrinking, according to NASA studies. The extent of Arctic sea ice has declined about 10 percent in the last 30 years as long as industrialized nations consume energy and developing countries increase their fossil fuel consumption. The concentration of greenhouse gases in the atmosphere will continue to rise. Researchers predict that temperatures will increase about two to 10 degrees Fahrenheit by the end of the century. What's less certain is what rising temperatures mean for the planet. Some climate models predict subtle changes. Others forecast rising sea levels, which could flood coastal areas around the world. Weather patterns could change, making hurricanes more frequent. Severe droughts could become more common in warm areas, and species unable to adapt to the changing conditions would face extinction, although much remains to be learned about global warming. Many organizations advocate cutting greenhouse gas emissions to reduce the impact of global warming. Consumers can help by saving energy around the house,

flowplayer

Speed 100%

00:01:21.716 / 00:03:03.926

-1S -10F -1F +1F +10F +1S

Auto Scroll Editor Auto Seek Video Save

Automatic Captioning for Web/OTT



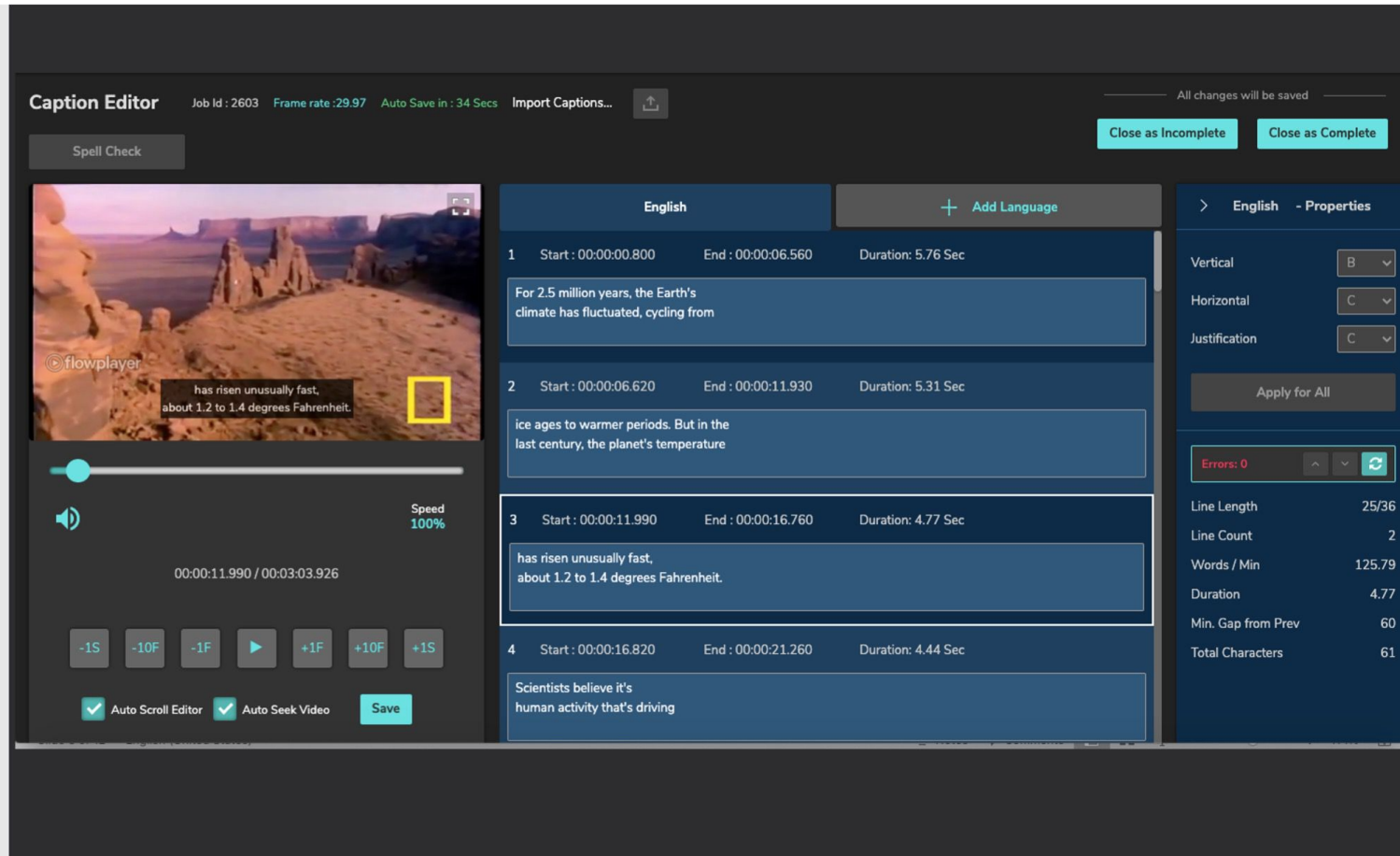
Business Challenges:

- Daily show with 60-minute window to create CC
- New-age captioning guidelines increasing the effort
- Compliance with streaming platform standards



Solutions:

- Automatic Transcripts created in real-time
- Caption conversion using presets, audio sync, and NLP
- Parameters and NLP-based auto-QC for compliance with various streaming platforms



The screenshot displays the 'Caption Editor' interface. At the top, it shows 'Job Id : 2603', 'Frame rate :29.97', 'Auto Save in : 34 Secs', and 'Import Captions...' with an upload icon. A 'Spell Check' button is visible. The main area is divided into three sections: a video player on the left, a list of captions in the center, and a properties panel on the right. The video player shows a desert landscape with a yellow box highlighting a caption: 'has risen unusually fast, about 1.2 to 1.4 degrees Fahrenheit.' The caption list shows four entries with their start/end times and durations. The properties panel for the selected caption shows settings for 'English' (Vertical: B, Horizontal: C, Justification: C) and a 'Properties' section with 'Errors: 0', 'Line Length: 25/36', 'Line Count: 2', 'Words / Min: 125.79', 'Duration: 4.77', 'Min. Gap from Prev: 60', and 'Total Characters: 61'. A 'Save' button is at the bottom.

Automatic Text Localization



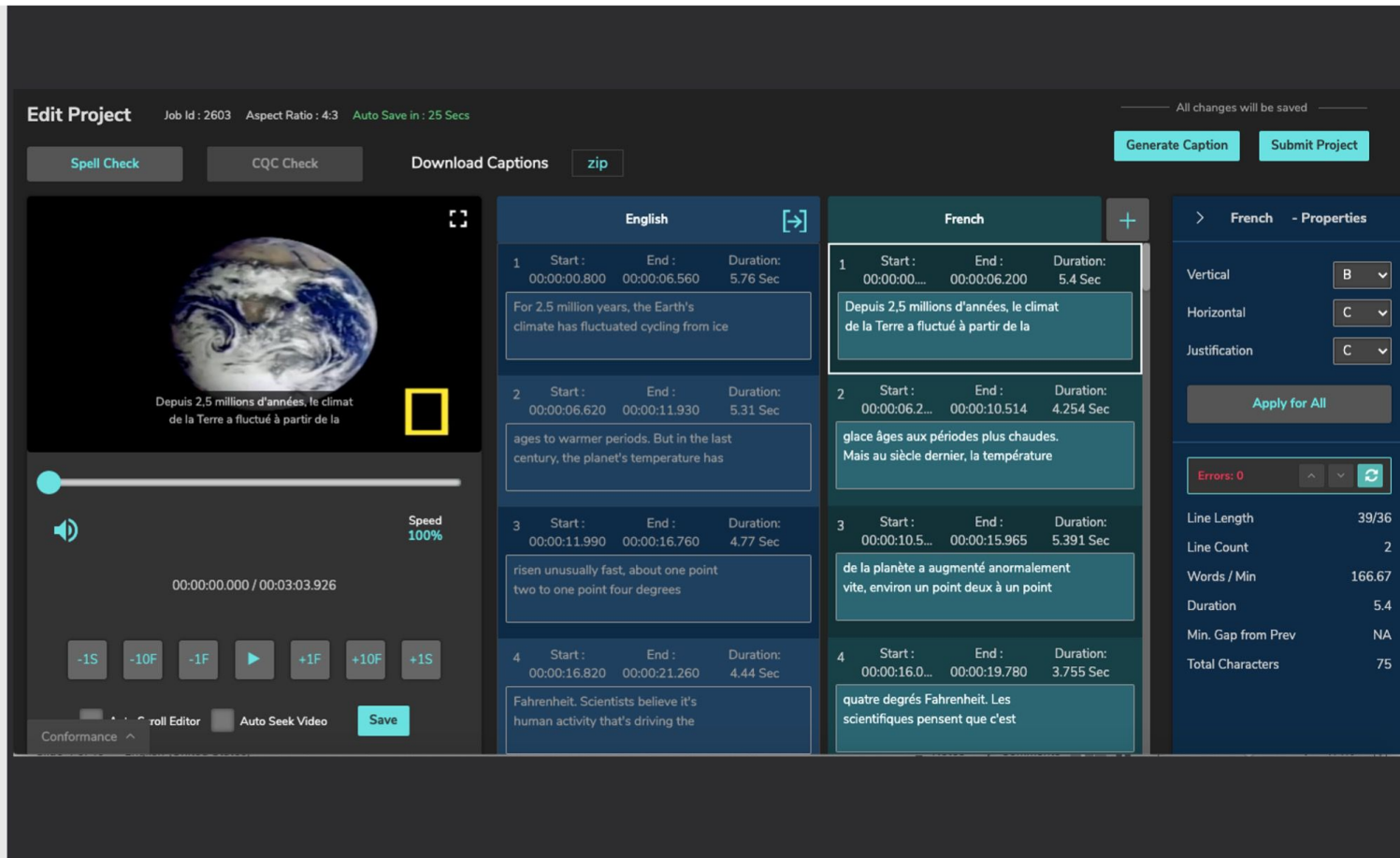
Business Challenges:

- Create translations and captions within a 60-minute window
- Use existing CC in another language and generate translations
- Generate translations using broadcast captions with different parameters



Solutions:

- Automatic Translations created under a minute
- Import existing captions and generate new translations
- Set new parameters for a secondary language



The screenshot displays the 'Edit Project' interface for a video localization project. The top bar shows 'Job Id : 2603', 'Aspect Ratio : 4:3', and 'Auto Save in : 25 Secs'. Below this are buttons for 'Spell Check', 'CQC Check', and 'Download Captions' (with a 'zip' dropdown). On the right, there are 'Generate Caption' and 'Submit Project' buttons. The main area is split into three panels:

- Video Player:** Shows a globe with the caption 'Depuis 2,5 millions d'années, le climat de la Terre a fluctué à partir de la'. A yellow box highlights the caption area. Below the video is a timeline with a play button and speed controls (Speed 100%).
- English Captions:** A table with columns for Start, End, and Duration. It lists four caption segments with their corresponding text in English.
- French Captions:** A table with columns for Start, End, and Duration. It lists the same four caption segments with their corresponding text in French.
- Properties Panel:** On the right, it shows settings for 'French - Properties', including 'Vertical' (B), 'Horizontal' (C), and 'Justification' (C). There is an 'Apply for All' button and an 'Errors: 0' indicator.

Video Metadata



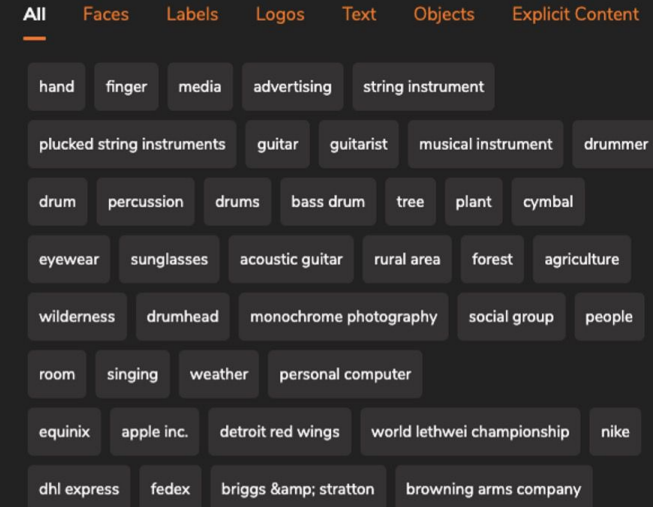
Business Challenges:

- Organizing archive library
- Identification of spots for relevant ad placement
- Brand re-placement in original content
- Automatically identify explicit content



Solutions:

- Customized video-based metadata for better searchability
- Accurately identify spots based on content (e.g., mobile phones, cars)
- Identify and replace brands within content based on consumer data
- Reduction of effort in identifying explicit content



Thank You

About digital-nirvana

Digital Nirvana delivers knowledge management technologies that empower organizations worldwide to create content, automate the generation of captions, subtitles, and metadata, as well as monitor the delivery of broadcast media. Built on two decades of industry experience and equipped with next-generation capabilities, the company's Trance and MonitorIQ, products harness best-of-breed video, audio, and AI technologies to drive new levels of speed, creativity, quality, and insight. Addressing the needs of modern broadcast media companies, these agile products scale to deliver high-impact services for organizations of all sizes, across all regions.