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CS589- Special Topics: Generative AI & Prompt Engineering

Date: 07/31/2024

Week 12 Homework 1: Generate a video from a poem

https://hc.labnet.sfbu.edu/~henry/sfbu/course/generative_ai/multimodal/slide/exercise_multimodal.htmlLinks to an external site.

Q12 ==> Generate a video from a poem

YouTube link:

<https://youtu.be/Cr58jRloR1Y>

Github Link:

<https://github.com/19692yq/Generate-a-video-from-a-websim.com.git>

Websim.ai Link:

<https://websim.ai/c/n7PAuF8sxfYCJYzfG>

Tools:

1. Use Websim.ai to create an animation video.
2. Use ChatGPT 4 to optimize and refine prompt.
3. Use Google to search online images and related documents and feed the contents to ChatGPT4.
4. Use Window screen recording to record the HTML file and background music
5. Upload video recording in YouTube
6. Use Github to store the project, report, Readme file, and generate project link
7. Include the GitHub link in the Resume.

Process:

```
# Generate-a-video-from-a-websim.com
```

```
## Tools:
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The screenshot shows a GitHub repository page for 'Generate-a-video-from-a-websim.com'. The repository is public and has 1 branch and 0 tags. The README.md file contains the project details and steps. The repository has 3 commits, the latest being 'Update README.md' by user '19692yq' 1 minute ago. The repository has 0 stars, 1 watching, and 0 forks. There are sections for Releases (no releases published), Create a new release, Packages (no packages published), and Publish your first package.

Generate-a-video-from-a-websim.com

Generate a video from a poem The Typer

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Animation Video Project

Project Overview

This project involves creating an animation video using Websim.ai, optimizing it with ChatGPT 4, and enhancing it with online resources. The final video is recorded and uploaded to YouTube, with all project files stored on GitHub.

Steps

1. Use Websim.ai to Create an Animation Video
2. Use ChatGPT 4 to Optimize and Refine Prompt
3. Use Google to Search Online Images and Related Documents and Feed the Contents to ChatGPT 4
4. Use Windows Screen Recording to Record the HTML File and Background Music
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Deliverables

- YouTube Video Link: [YouTube Animation Video](#)
- Websim.ai Link: [Websim.ai Animation](#)
- GitHub Repository: [GitHub Link](#)

Initial Prompt:

ChatGPT 4.0

I would like to create a video about a polar bear rescue a baby tiger in Glacier in Alaska. please create a prompt based on this question: To create a compelling video, I'll need some more information from you: What is the main subject or theme of your video? What style or genre would you like the video to be (e.g., documentary, animation, live-action, etc.)? What is the desired length of the video? Who is the target audience for this video? What key messages or takeaways do you want to convey through the video? Do you have any specific visual elements or locations in mind? Once you provide more details about your video project, I'll be happy to collaborate with you to create an engaging script and storyboard that brings your vision to life. The more information you can share about your goals and creative direction, the better equipped I'll be to craft a compelling video that resonates with your audience.



I'll use my imagination to create a detailed concept for your video:

1. Main Subject or Theme:

- The video centers around a heartwarming and unexpected rescue: a polar bear saving a baby tiger stranded on a glacier in Alaska. The theme focuses on the unity of nature and the unexpected bonds that can form in the wild.

2. Style or Genre:

- The video will be a blend of animation and live-action. The majestic Alaskan landscapes and realistic animal movements will be captured in live-action, while the close-up interactions and emotional expressions of the animals will be animated to enhance their personalities and storytelling.

3. Desired Length:

- The video will be around 5-7 minutes long, making it short enough to keep the audience engaged but long enough to develop a touching and memorable story.

4. Target Audience:

- The target audience is families and children, aiming to entertain and educate about wildlife, empathy, and environmental conservation. It should also appeal to nature enthusiasts and animal lovers.

5. Key Messages or Takeaways:

- The main messages are the power of empathy, the importance of helping those in need regardless of differences, and the beauty of nature's unexpected friendships. It also subtly touches on the impacts of climate change, as the glacier setting highlights environmental issues.

6. Visual Elements or Locations:

- The video will feature the stunning icy landscapes of Alaska, with vast glaciers, sparkling ice caves, and snowy vistas. The polar bear and baby tiger will be the

main characters, depicted with realistic yet expressive animations. Key scenes include the polar bear discovering the tiger, the perilous journey across the glacier, and the eventual safe haven they find.

Script Outline:

Opening Scene:

- A sweeping aerial shot of the Alaskan glaciers, showcasing the beauty and harshness of the environment.
- A baby tiger, lost and scared, is shown stranded on a small ice floe, calling out for help.

Introduction of Polar Bear:

- A majestic polar bear is introduced, wandering through the icy landscape. The bear hears the tiger's cries and curiously approaches.

The Rescue:

- The polar bear carefully navigates the treacherous ice to reach the baby tiger. Using gentle nudges and a sense of calm, the bear reassures the tiger.
- The bear helps the tiger onto safer ground, demonstrating patience and care.

Journey Together:

- The polar bear and tiger journey together across the glacier. They face various challenges, such as crossing fragile ice bridges and seeking shelter from a snowstorm.
- Along the way, they form a bond, with moments of playful interaction and mutual support.

Safe Haven:

- They eventually find a lush, hidden valley where the glacier melts into a serene, green oasis.
- The video concludes with the polar bear and tiger resting together, symbolizing their newfound friendship and the resilience of nature.

Closing Message:

- A brief message about the importance of protecting wildlife and the environment, encouraging viewers to learn more and get involved in conservation efforts.
-

This concept aims to create an emotional and visually stunning experience that will resonate with viewers and leave a lasting impression about the power of kindness and the beauty of our natural world.



Feed the output into the Websim.ai. and generate output

2nd Prompt

Write description on baby tiger and polar bear



Add description one by one to the Websim.ai. and generate output

Repeat the steps to customize characters.

A screenshot of the Websim.ai interface. The URL bar shows "https://polarbeartiger.rescue/". Below it, a dropdown menu says "Sonnet 3.5". A message box displays the following text:

Polar Bear Rescues Baby Tiger
Main Subject or Theme:
The video centers around a heartwarming and unexpected rescue: a polar bear saving a baby tiger stranded on a

A small preview thumbnail of the video is visible on the left.

3rd Prompt in the Websim.ai

Add back ground





https://websim.creation.engine/polar-bear-tiger-rescue/

Sonnet 3.5 ▾ Your usage limit has been reached for today

Y er add t, ears, and dark stripes, almond eyes. 4 legs. pale and claws, ears, tiger is running. polar bear has 2 legs and 2 arms, and ears, swimming. add tiny beta fishes and baby dolphin, and marine animals, tiny crabs, tiny lobsters under the ice. polar bear has ears, palm and claws. tiny American black eagles with yellow peaks, round eyes, feathers, 2 claws, are fly above the ice bugs. add snow storm. add colorful corals in irregular shape under the water. add snow storm.

Y https://websim.creation.engine/polar-bear-tiger-rescue/ add background picture. remove sky. baby tiger add t, ears, and dark stripes, almond eyes. 4 legs. pale and claws, ears, tiger is running. polar bear has 2 legs and 2 arms, and ears, swimming. add tiny beta fishes and baby dolphin, and marine animals, tiny crabs, tiny lobsters under the ice.

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Input ChatGPT4o generated the result to Websim.ai:

Main Subject or Theme: The video centers around a heartwarming and unexpected rescue: a polar bear saving a baby tiger stranded on a glacier in Alaska. The theme focuses on the unity of nature and the unexpected bonds that can form in the wild. Style or Genre: The video will be a blend of animation and live-action. The majestic Alaskan landscapes and realistic animal movements will be captured in live-action, while the close-up interactions and emotional expressions of the animals will be animated to enhance their personalities and storytelling.

Desired Length: The video will be around 5-7 minutes long, making it short enough to keep the audience engaged but long enough to develop a touching and memorable story. Target Audience: The target audience is families and children, aiming to entertain and educate about wildlife, empathy, and environmental conservation. It should also appeal to nature enthusiasts and animal lovers. Key Messages or Takeaways: The main messages are the power of empathy, the importance of helping those in need regardless of differences, and the beauty of nature's unexpected friendships. It also subtly touches on the impacts of climate change, as the glacier setting highlights environmental issues. Visual Elements or Locations: The video will feature the stunning icy landscapes of Alaska, with vast glaciers, sparkling ice caves, and snowy vistas. The polar bear and baby tiger will be the main characters, depicted with realistic yet expressive animations. Key scenes include the polar bear discovering the tiger, the perilous journey across the glacier, and the eventual safe haven they find. Script Outline: Opening Scene: A sweeping aerial shot of the Alaskan glaciers, showcasing the beauty and harshness of the environment. A baby tiger, lost and scared, is shown stranded on a small ice floe, calling out for help.

Introduction of Polar Bear: A majestic polar bear is introduced, wandering through the icy landscape. The bear hears the tiger's cries and curiously approaches. The Rescue: The polar bear carefully navigates the treacherous ice to reach the baby tiger. Using gentle nudges and a sense of calm, the bear reassures the tiger. The bear helps the tiger onto safer ground, demonstrating patience and care. Journey Together: The polar bear and tiger journey together across the glacier. They face various challenges, such as crossing fragile ice bridges and seeking shelter from a snowstorm. Along the way, they form a bond, with moments of playful interaction and mutual support. Safe Haven: They eventually find a lush, hidden valley where the glacier melts into a serene, green oasis. The video concludes with the polar bear and tiger resting together, symbolizing their newfound friendship and the resilience of nature. Closing Message: A brief message about the importance of protecting wildlife and the environment, encouraging viewers to learn more and get involved in conservation efforts. This concept aims to create an emotional and visually stunning experience that will resonate with viewers and leave a lasting impression about the power of kindness and the beauty of our natural world. Change the Story: A tiger found the diamond under the water. ChatGPT Sure, let's reimagine the story with a new twist: a tiger discovering a diamond underwater. Video Concept: The Tiger and the Diamond Main Subject or Theme: The video revolves around an adventurous tiger that finds a rare diamond underwater. The theme highlights curiosity, adventure, and the unexpected discoveries that can happen when exploring the unknown. Style or Genre: The video will be an animation, allowing for vibrant and fantastical visuals that can fully capture the underwater adventure and the tiger's expressive journey. Desired Length: The video will be around 5-7 minutes long, providing enough time to build an engaging and magical story without losing the audience's attention. Target Audience: The target audience is children and families, appealing to those who love adventure stories, wildlife, and a touch of fantasy. It also aims to capture the interest of animation enthusiasts. Key

Messages or Takeaways: The key messages are the joy of exploration, the rewards of curiosity, and the magic of discovering the unexpected. It also subtly encourages viewers to appreciate and protect natural treasures.

Visual Elements or Locations: The video will feature lush jungle settings, a sparkling river, and a breathtaking underwater world. The tiger will be animated with expressive features and graceful movements. Key scenes include the tiger diving into the water, the discovery of the diamond, and the subsequent magical events that unfold.

Script Outline:

Opening Scene: A tranquil jungle morning with vibrant flora and fauna. The tiger, curious and adventurous, is shown exploring its surroundings. The tiger discovers a shimmering river and, driven by curiosity, decides to dive in.

Underwater Discovery: The underwater world is teeming with colorful fish and coral. The tiger swims gracefully, its movements fluid and captivating. A glint of light catches the tiger's eye. It swims closer to investigate and discovers a dazzling diamond nestled among the rocks on the riverbed.

The Magic Unfolds: As the tiger touches the diamond, a burst of light envelops the scene. The diamond starts to glow, revealing its magical properties. The tiger is transported to an enchanting underwater cave filled with sparkling crystals and ethereal creatures.

Adventure and Challenges: The tiger navigates the magical cave, encountering friendly sea creatures that guide it through. The cave presents various challenges, like navigating through narrow passages and solving puzzles to unlock further secrets of the diamond.

Return to the Jungle: After a series of thrilling adventures, the tiger finds its way back to the river's surface, holding the diamond. The diamond's magic brings a touch of enchantment to the jungle, causing flowers to bloom and animals to gather in awe.

Closing Message: The video concludes with the tiger resting by the river, the diamond glowing softly beside it. A message appears about the wonders of nature and the importance of exploring and protecting our world's treasures. This story aims to create a sense of wonder and excitement, taking the audience on a magical journey with the adventurous tiger.

The enchanting visuals and captivating plot will inspire viewers to embrace curiosity and cherish the beauty of the natural world.

please give me description on a baby tiger

ChatGPT Description of a Baby Tiger: A baby tiger, also known as a tiger cub, is a heart-melting sight with its playful energy and adorable features. Here's a detailed description:

Physical Appearance: Size and Weight: At birth, a tiger cub weighs between 2 to 3 pounds (1 to 1.5 kg). They are small enough to fit into the palm of a hand. As they grow, they become more robust, showcasing the potential strength and grace of an adult tiger.

Fur and Stripes: The cub's fur is soft and fluffy, providing a striking contrast to the sleek, powerful coat they will develop as adults. Their fur is typically a light orange color, adorned with distinctive black stripes that are unique to each individual, much like human fingerprints. These stripes can also be brown or gray in some cubs. The underbelly, chest, and inner parts of the legs are usually white or light cream.

Eyes: A baby tiger's eyes are typically blue at birth, gradually changing to a yellow or amber color as they mature. Their eyes are large and curious, reflecting their playful and inquisitive nature.

Ears and Tail: Their ears are rounded and small, often twitching as they listen intently to their surroundings. The tail is short and stubby in comparison to their body, often used for balance as they learn to walk and pounce.

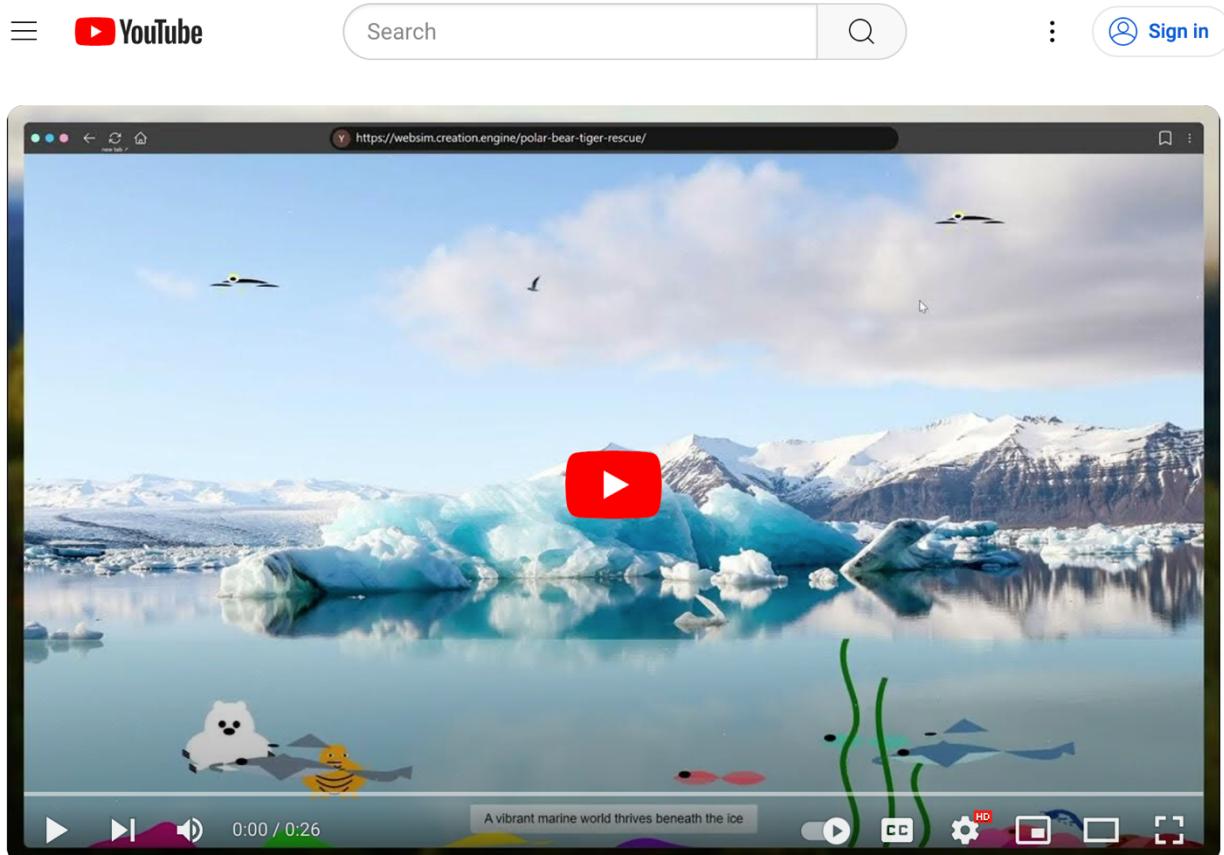
Behavior and Characteristics:

- Playfulness:** Tiger cubs are highly playful, often seen tumbling around with their siblings, pouncing on objects, and chasing anything that moves. They practice their hunting skills through play, stalking and ambushing their littermates or small prey.
- Curiosity:** Their curiosity knows no bounds. They explore their surroundings with endless enthusiasm, sniffing, pawing, and nibbling on everything they encounter. This adventurous spirit helps them learn about their environment and develop essential survival skills.
- Dependence:** Tiger cubs are highly dependent on their mother for the first few months of their lives. She

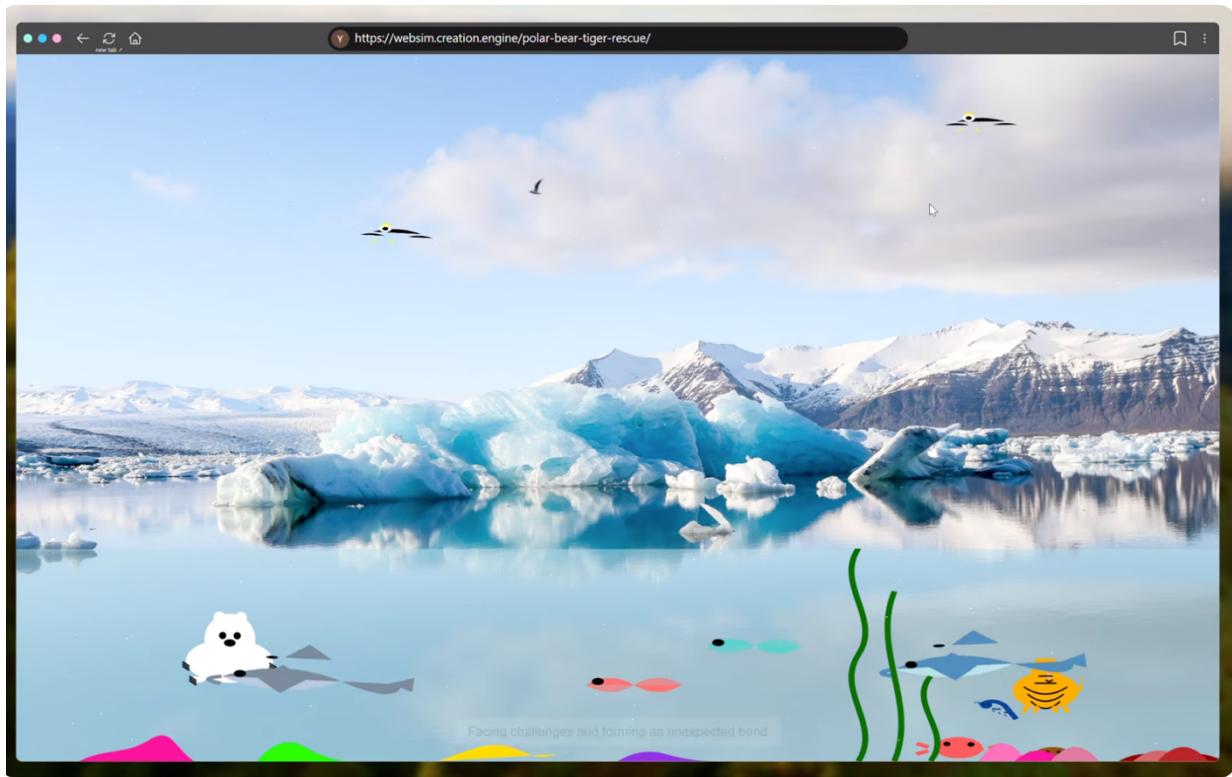
provides them with food, protection, and teaches them the skills they need to survive in the wild. They will nurse from their mother until they are about 3 to 6 months old, gradually transitioning to solid food. Communication: They communicate with soft mews, purrs, and growls, expressing their needs and emotions to their mother and siblings. As they grow, their vocalizations become more diverse and powerful, including roars that signify their presence and territory. Habitat: Nursery Den: Tiger cubs are typically born in a secluded den, often a cave, dense vegetation, or a hollow tree, providing safety and shelter. The den is carefully chosen by the mother to protect the cubs from predators and harsh weather conditions. This detailed description of a baby tiger highlights their endearing physical traits and behaviors, painting a vivid picture of their early life stages and the wonders of nature.

create a cute character for baby polar bear ChatGPT Character Description: Baby Polar Bear Name: Snowball Physical Appearance: Size and Build: Snowball is a small, chubby polar bear cub with a round, plump body that exudes cuteness and innocence. His paws are disproportionately large, giving him an endearing, clumsy look as he waddles around the icy terrain. Fur: His fur is fluffy and pristine white, like freshly fallen snow, providing excellent insulation and making him irresistibly huggable. Around his neck, the fur is slightly longer, forming a soft, downy collar that adds to his charming appearance. Eyes: Snowball has large, expressive blue eyes that sparkle with curiosity and mischief. His eyes are framed by thick, dark lashes that accentuate his innocence and playful nature. Nose and Ears: His nose is small and black, standing out against his snowy fur, with a slight shine that catches the light. His ears are round and tiny, often twitching as he listens to the sounds of his icy environment. Tail: He has a short, stubby tail that wiggles when he's excited or happy, adding an extra layer of cuteness to his movements. Behavior and Personality: Playfulness: Snowball is extremely playful, always on the lookout for an adventure or a new game. He loves sliding down icy slopes, chasing after snowflakes, and playing hide-and-seek with his friends. His playful antics often result in adorable tumbles and rolls, but he always gets back up with a cheerful attitude. Curiosity: He is very curious and loves exploring his surroundings. Snowball is often seen sniffing around, digging in the snow, and peering into ice caves, eager to discover new things. His curiosity sometimes leads him into funny situations, like getting his nose stuck in a snow mound or accidentally slipping into a shallow ice pool. Affectionate: Snowball is very affectionate and loves cuddling with his family and friends. He often snuggles up to his mother or siblings, seeking warmth and comfort. He enjoys giving and receiving nuzzles and gentle paw taps, showing his love and appreciation for those around him. Bravery: Despite his small size, Snowball is surprisingly brave. He's not afraid to venture into unknown areas or face small challenges, like climbing a little ice hill or standing up to a playful seal. Habitat: Icy Landscape: Snowball lives in a beautiful, snowy Arctic landscape filled with glittering icebergs, frozen lakes, and vast stretches of white snow. His home is a cozy den made of snow and ice, where he stays warm and safe with his family during the coldest days. Clothing and Accessories: Scarf: Snowball wears a tiny, knitted blue scarf around his neck. The scarf, made by his mother, adds a touch of personality and keeps him warm during his snowy adventures. Snow Goggles: He sometimes sports a pair of cute snow goggles perched on his forehead, ready for his playful expeditions in the bright Arctic sun. Voice and Sounds: Voice: Snowball has a soft, high-pitched voice filled with excitement and wonder. His giggles are infectious, making everyone around him smile. Sounds: He makes a variety of adorable sounds, from happy squeaks when he's playing to contented purrs when he's cuddling. His playful growls are gentle and never threatening. Snowball, the baby polar bear, is a charming and lovable character whose playful nature, curiosity, and bravery make him an endearing hero for any story. His adventures in the

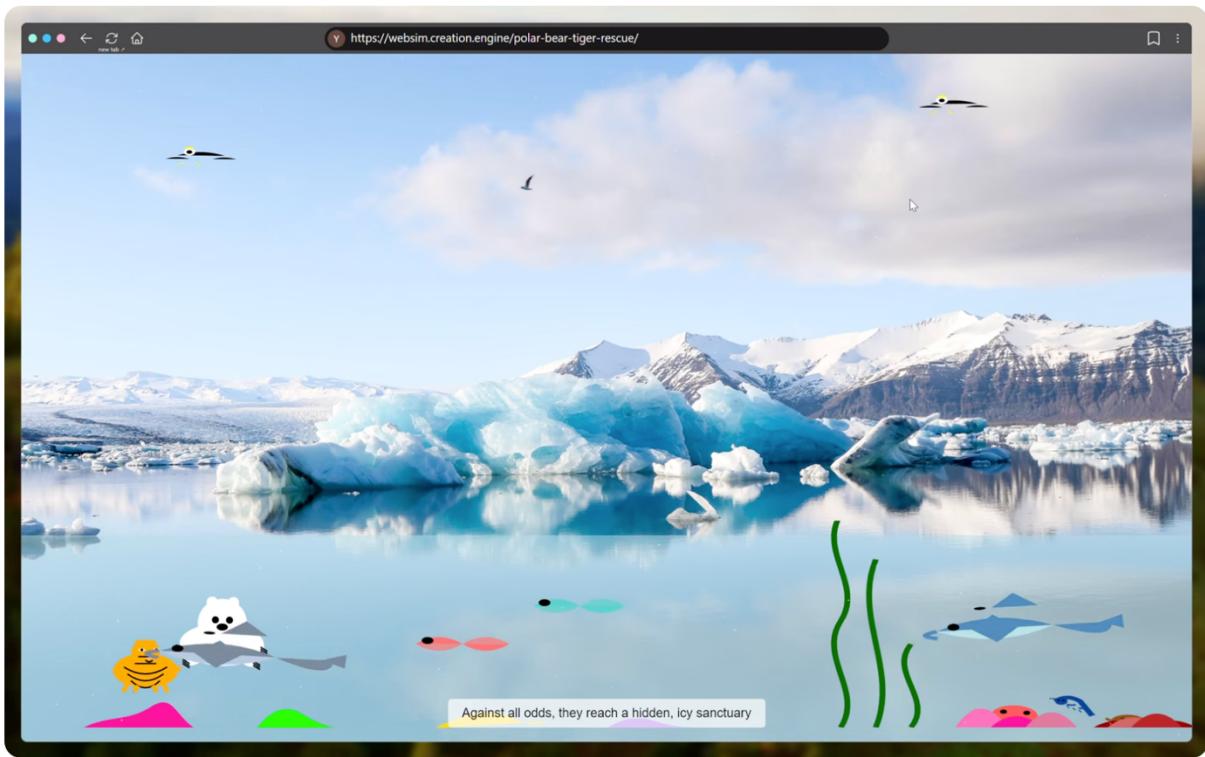
snowy Arctic are filled with fun, discovery, and heartwarming moments that captivate and delight audiences of all ages.



Polar Bear Rescues Baby Tiger An Arctic Adventure Google Chrome 2024 07 31 19 37 13



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