



Phi-2 Hackathon

Small Model, Big Apps!

Feb 01

24 Hours Challenge

</intermediate level>



Team: Metaverse Professional

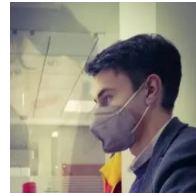
Project: Text to Image - Phi2 [Browser Extension]



Team

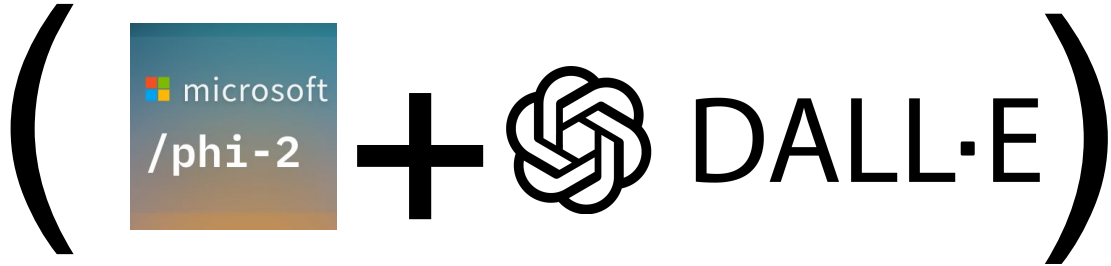
Metaverse Professional

Enrique Gamboa
Elias Ordaz



The Idea

- 💡 Transform web text into illustrations with a right-click.
- 🎨 Phi-2-powered browser extension: Text to Image - Phi2.
- 🚀 Unlock the visual potential of internet text effortlessly.



Axolotl

Article Talk Read View source

From Wikipedia, the free encyclopedia


For other uses, see Axolotl (disambiguation).

The **axolotl** (/ˈæksəloʊtl/; from Classical Nahuatl: āxōōtl̥ [aːˈjoːloːt̪][ⓘ]) (***Ambystoma mexicanum***)^[3] is a paedomorphic salamander closely related to the tiger salamander.^{[3][4][5]} It is unusual among amphibians in that it reaches adulthood without undergoing metamorphosis. Instead of taking to the land, adults remain aquatic and gilled. The species was originally found in several lakes underlying what is now Mexico City, such as Lake Xochimilco and Lake Chalco.^[1] These lakes were drained by Spanish settlers after the conquest of the Aztec Empire, leading to the destruction of much of the axolotl's natural habitat.

As of 2020, the axolotl was near **extinction**^{[6][7]} due to urbanization in Mexico City and consequent **water pollution**, as well as the introduction of invasive species such as **tilapia** and **perch**. It is listed as **critically endangered** in the wild, with a decreasing population of around 50 to 1,000 adult individuals, by the **International Union for Conservation of Nature and Natural Resources** (IUCN) and is listed under Appendix II of the **Convention on International Trade in Endangered Species** (CITES).^[2] Axolotls are used extensively in scientific research due to their ability to **regenerate** limbs, gills and parts of their eyes and brains.^[8] Notably, their ability to regenerate declines with age, but it does not disappear. Axolotls keep modestly growing throughout their life and some consider this trait to be a direct contributor to their regenerative abilities.^[9] Further research has been conducted to examine their heart as a model of human single ventricle and excessive trabeculation.^[10] Axolotls were also sold as food in Mexican markets and were a staple in the **Aztec** diet.^[11]

- Contents hide
- (Top)
- Description
- Habitat and ecology
 - Diet
- Use as a model organism
 - Regeneration
 - Genome
 - Neoteny
- Threats
- Captive care
- Cultural significance
- See also
- References
- External links

Axolotl



In the National Aquar

Conserva

Extinct Threatened

EX EW CR

Critically Endanger

CITES Appen

Scientific c

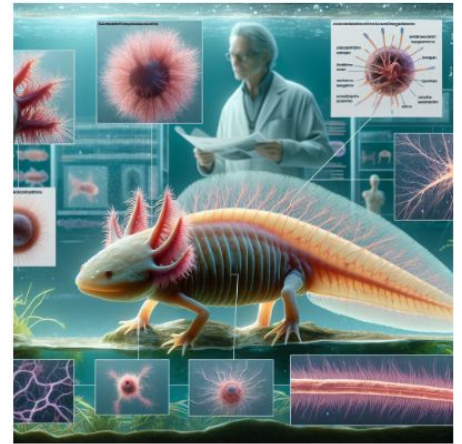
Domain: Euka

Kingdom: Anima

Phylum: Chordata

Class: Amphibia

Order: Urodela



[Download Image](#)

Text to Image

PHI-2

Newly discovered species of salamander found in Mexico called axolotl with unique healing ability. Can regenerate any lost appendage and even

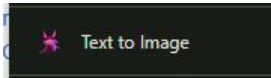


The Problem Resolved

? Ever wanted to visualize online text instantly?

🤔 Difficulty in turning text into engaging visuals.

✅ Text to Image - Phi2: The solution you've been waiting for.



Axolotl

Article [Talk](#)

From Wikipedia, the free encyclopedia

For other uses, see [Axolotl \(disambiguation\)](#).

A screenshot of the Wikipedia article for "Axolotl". A blue selection box highlights a paragraph of text. A context menu is open over the selection, showing options like "Copy", "Copy link to highlight", "Search Google for...", "Print...", "Translate selection to español", "Open in reading mode", "Text to Image", and "Inspect". A red arrow points to the "Text to Image" option in the menu. The "Text to Image" button from the previous image is also visible in the top left corner of the screenshot area.

Architecture



Seamless architecture:



Context menu selection.



Phi-2 API for text summarization.

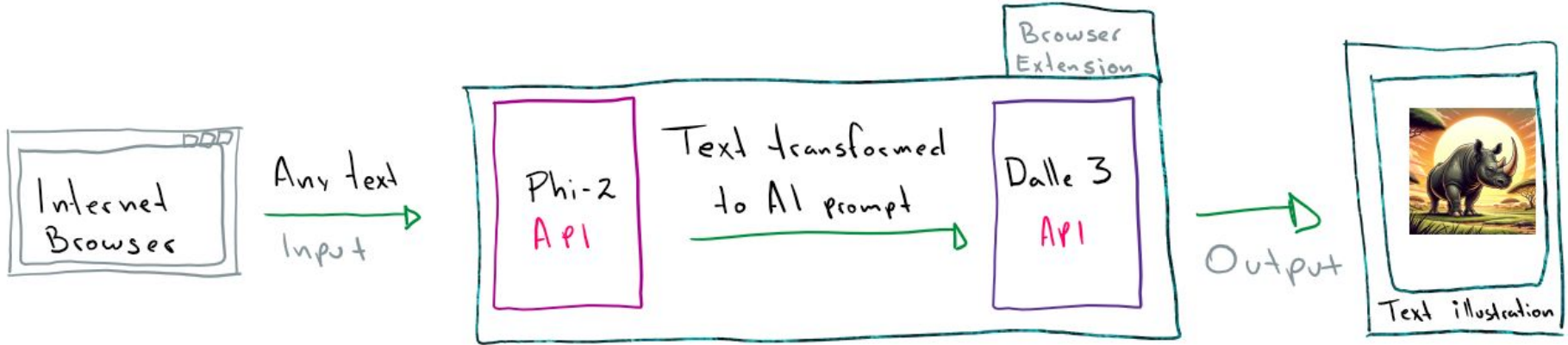


Dalle 3 AI model for illustration generation.



Instantly see generated artwork in your browser.

Architecture



Phi 2 - Usage

```
chrome.contextMenus.onClicked.addListener(function (info, tab) {
  if (info.menuItemId === "text-to-image") {
    let selectedText = info.selectionText;
    let prePrompt = `
Based on the text below generate a Prompt of max 11 words for a text to image AI model,
that highlight the subject of the text into one illustration. Make the prompt to include the illustration in the style of a cartoon.
Text: `;

    // Call to the new API for prompt generation
    console.log(selectedText);
    fetch("http://localhost:1234/v1/chat/completions", {
      method: "POST",
      headers: {
        'Content-Type': 'application/json',
        // Include other headers required by the new API
      },
      body: JSON.stringify({
        messages: [
          { "role": "system", "content": "You are a helpful assistant that creates prompts for Dalle 3" },
          { "role": "user", "content": prePrompt + selectedText }
        ],
        temperature: 0.5,
        max_tokens: 2048,
        stream: false
      })
    })
    .then(response => response.json())
```


How to Install

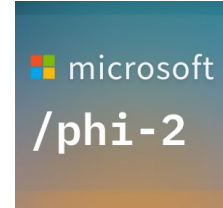
📄 Hassle-free installation via GitHub:

- 🌐 Visit our GitHub repository: [GitHub Link](#)
- 📦 Click on the "Releases" tab.
- 📁 Download the latest release ZIP file.
- 💻 Unzip the file to your desired location.
- 🧩 Open your browser's extensions settings.
- 📁 Enable "Developer Mode."
- 📁 Click "Load unpacked" and select the unzipped folder.
- 🖱️ You're all set! Right-click to generate illustrations.



<https://github.com/jegamboafuentes/Text-to-Image-Phi2>

Phi-2 Integration



 Phi-2 powers the text summarization:

 Extracts concise prompts from selected text.

 Enhances language understanding for prompts.

 Dalle 3 AI model:

 Transforms Phi-2 prompts into stunning artwork.

 Harnesses Phi-2's logical reasoning for context.

 Seamless collaboration of Phi-2 and Dalle 3 in Text to Image - Phi2.