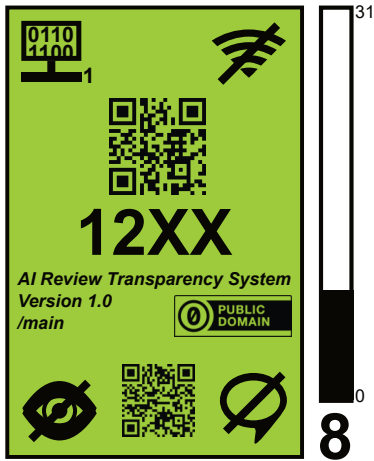




System Information Statement (SIS)

ARTS Version: 1.0/main

Product: Heaps

Maker: Droidknot LLC

LOD 0, Composite AI Content Score (CACS): 8

LOD 1, Rating Designator (RD): 12XX/1/0/0/0

LOD 2, ARTS Label

LOD 3, System Information Statement

Position 1, AI Production Scale (1): Software engineering is primarily by hand in C# and python, with local SLM's, run on a desktop via Ollama (primarily Qwen), and occasional, free, cloud-based LLM's (Google AI Mode) used to research knowledge deficits and prototype code snippets for specific systems that map to those deficits. Any AI-generated code was reviewed line-by-line by a human, verified, tested, hand-integrated and heavily modified. Droidknot only uses free or open-source AI tools. We do not use enterprise AI products or agentic AI.

Position 2, Data Center Environmental Impact Score (2): Water use and energy use have each been scored at 1 due to the occasional use of cloud-based LLM's for research.

Position 3, Production/Code Use (Type X=2): Local SLM's (S) and remote LLM's (L) were used for research, prototyping and debugging certain systems.

Position 4, Generative AI Use (Type X=2): Pinocchio and Hunyuan were used to generate 3D models of mushrooms from 19th century public domain botanical illustrations (M), and the integrated model is used to generate text labels and summaries (T) at runtime.

System Modifiers:

System Access (1): The application requires local file access to files selected by the player from a standard operating system file or folder browser with permissions. It scans the player's system via the psutil and gputil python packages to ascertain the specifications of the system in order to select a model that will match their system's performance profile.

Network Connectivity (0): There is no network connectivity between local models and the Internet. Models may occasionally be downloaded to match the end user's current performance profile based on GPU, CPU and available VRAM.

Sensing (0): Ollama runs as a local background service (a daemon) to manage files and models inside its specific directory, it requires basic local execution privileges. However, it operates safely within standard user-level permissions and doesn't require root administrative elevation.

Chat Interface (0): The application has absolutely no chat interface. An SLM is integrated locally as a black-box system with robust system prompts to generate structured output in the form of JSON based on the player's file inputs. The JSON is consumed by the game to generate maps and levels.



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Additional Specifications & Technical Notes:

- A localhost python server is back-compiled to a C executable and deployed with the main executable and invoked from its application domain to host the local model. The python runs a Small Language Model locally to scrape concepts from files of the player's choosing, cluster those concepts, then returns them as structured JSON data via pydantic. Players can delete data from the application at any time of their choosing. No data is stored on the web; it is all stored locally on the player's own computer. No cloud compute is used.
- The local model is downloaded from the Internet via Ollama.
- The end-user needs to have the Ollama client installed to run the model locally.
- The python server has robust internal system prompts to prevent violation of the Terms of Service on the Steam and Itch platforms regarding disallowed content.
- The python server is run from the main executable's application domain, in the same directory structure, and is invoked and managed by the main Unity binary.
- The python server and main executable communicate via a local socket connection via IANA-approved port numbers according to RFC 6335. Ports are tested and iterated to ensure that they are available on the local system. If an IANA-approved port listed in RFC 6335 is not available, the application will not run.



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