

Webscraping with mshell and LLMs (mshell (<https://www.appservgrid.com/paw92/index.php/2025/03/30/mshell-new-linux-shell-for-ai-and-mathematics/>) + LLM), ubuntu 24.04 LTS

ollamaNexec are internal commands for mshell – Linux shell for AI and mathematics. Here is an explanation of structure and functionality of the webscraping module with LLM support and an example of a working session with the module.

Here's a breakdown of how this system works:

1. Search Engine Integration

The system can query multiple search engines through dedicated Python scripts:

- `bing_search.py`
- `duckduckgo_search.py`
- `ecosia_search.py`
- `qwant_search.py`
- `yandex_search.py`
- `saved_search.py` (for cached links)
- `customized_searchN.py`

Each script follows a similar pattern: it takes a search query (either from command line arguments or a `search_query.txt` file), performs the search, extracts links from the search results, and opens the top results in Chrome or Mozilla Firefox.

2. Content Scraping

The core scraping functionality is handled by:

- `scrape_link.py`: Scrapes a single URL and saves the content

- `scrape_search.py`: Takes links from search results and processes multiple URLs by calling `scrape_link.py` for each

3. User Interface Scripts

Several MShell scripts provide user interfaces for different operations:

- `search_all.ms`: Main menu for choosing search engines
- `option1.ms`: Interface for scraping a single URL
- `option2.ms`: Interface for scraping recent search results
- `option3.ms`: Combined search and scrape workflow
- `analyze.ms`: Tool for analyzing scraped content

4. Content Analysis

After content is scraped, it can be analyzed using:

- `analyze.ms`: General analysis interface
- `a1.ms`, `a2.ms`, `a3.ms`: Specialized analysis scripts that process content and feed it to a local LLM (Ollama)

5. Output Storage

The scraped content is saved in a structured way:

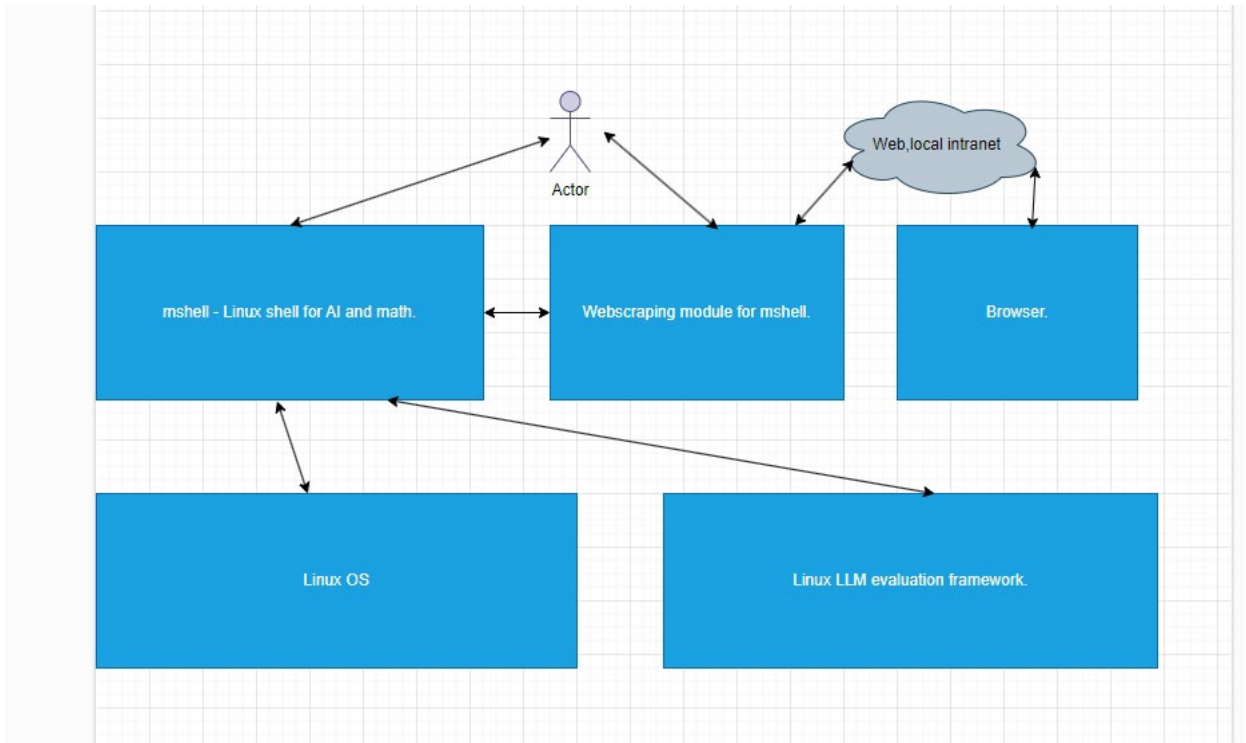
- Text files store the actual scraped content (like `36vibes_com_install_latest_ubuntu_linux.txt`)
- Corresponding metadata JSON files provide additional information (like `36vibes_com_install_latest_ubuntu_linux_meta.json`)

6. Data Flow

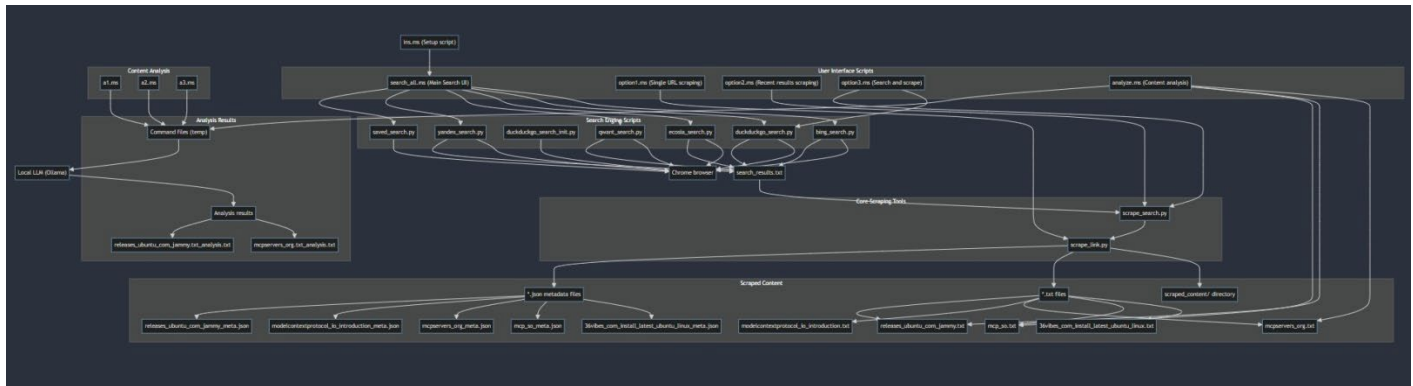
1. A user initiates a search through one of the interface scripts
2. Search engines are queried and return links
3. Links are extracted and passed to the scraping tools
4. Content is scraped and saved to the `scraped_content` directory
5. Optional analysis can be performed on the scraped content

This system provides a comprehensive pipeline from search query to content analysis, allowing for automated gathering and processing of web content from multiple sources.

External relationships of webscraping module in the overall infrastructure.



Internal Structure of web scraping module.



Scraped Content Examples

From the provided files, we can see the system has been used to scrape:

1. **Linux Documentation:**
 - Installation guides from tech blogs
 - Official Ubuntu release information
2. **MCP (Model Context Protocol) Information:**
 - Directory listings of MCP servers from mcp.so
 - Documentation from mcpservers.org
 - Official introduction from modelcontextprotocol.io

Analysis Capability

The analysis component leverages a local on-premise LLM (Ollama) or Linux LLM evaluation framework to process the scraped content. Examples of analysis include:

- Understanding what MCP servers are and their functionality
- Summarizing Ubuntu release information

This comprehensive system provides an end-to-end solution for web scraping, from search query to content analysis, with a flexible architecture that can work with multiple search engines and process various types of web content.

Example of working session (main steps, Parameters can be adjusted according the needs.).

Common Directory of webscraping module.

```
/home/igor/scraping1 > ls
a1.ms      bing_search.py      ecosia_search.py    option3.ms          scraped_content     search_all.ms       temp_results
a2.ms      duckduckgo_search_init.py  ins.ms              projecto            scrape_link.py     search_query.txt   yandex_search.py
a3.ms      duckduckgo_search.py    option1.ms          qwant_search.py    scrape.ms           search_results.txt
analyze.ms duck_results.txt       option2.ms          saved_search.py    scrape_search.py   search_summary.txt
/home/igor/scraping1 > █
```

Start of browsing module and input query.

```
/home/igor/scraping1 > search_all.ms
Loading .mshellrc...
Loaded environment: PATH=/usr/bin:/bin:/usr/sbin:/usr/local/bin:.$PATH
Loaded alias: ll='ls -l'
Loaded alias: home='cd ~'
Loaded environment: EDITOR=nano
Lua state initialized successfully
Range function defined successfully
Loading history...
"Search Engine Query Tool"
"-----"
"Enter search query (press Enter for default 'quantum computing'):"
Solaris OS releases █
```

Select of search engine, permanent links to open, or open browsing links for all using search engines (by default it opens 5 top references at each search engine).

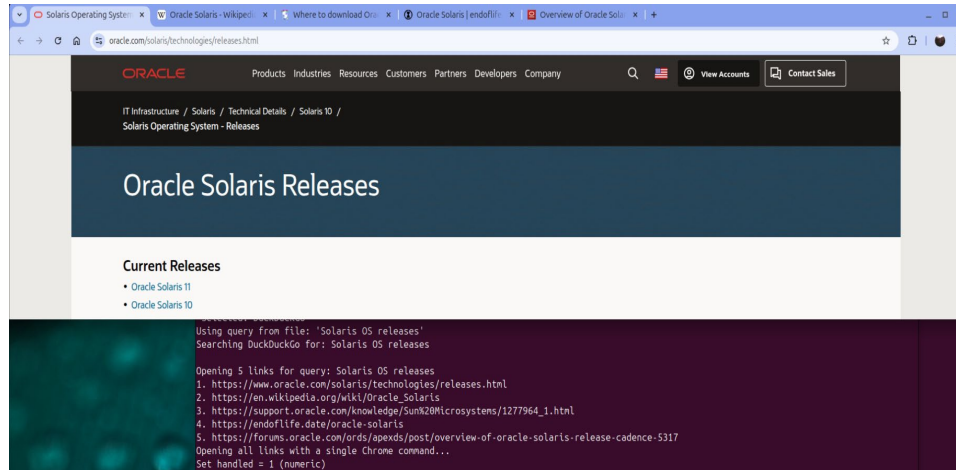
```
"Search Engine Query Tool"
"-----"
"Enter search query (press Enter for default 'quantum computing'):"
Solaris OS releases
"Choose search engine:"
"1 - DuckDuckGo"
"2 - Bing"
"3 - Ecosia"
"4 - Qwant"
"5 - Yandex"
"6 - Saved quantum computing links"
"0 - All search engines (without saved links)"
```

Make connection, open links at browser.

```
"Search Engine Query Tool"
"-----"
"Enter search query (press Enter for default 'quantum computing'):"
Solaris OS releases
"Choose search engine:"
"1 - DuckDuckGo"
"2 - Bing"
"3 - Ecosia"
"4 - Qwant"
"5 - Yandex"
"6 - Saved quantum computing links"
"0 - All search engines (without saved links)"
1
Set handled = 0 (numeric)
"Selected: DuckDuckGo"
Using query from file: 'Solaris OS releases'
Searching DuckDuckGo for: Solaris OS releases

Opening 5 links for query: Solaris OS releases
1. https://www.oracle.com/solaris/technologies/releases.html
2. https://en.wikipedia.org/wiki/Oracle_Solaris
3. https://support.oracle.com/knowledge/Sun%20Microsystems/1277964_1.html
4. https://endoflife.date/oracle-solaris
5. https://forums.oracle.com/ords/apexds/post/overview-of-oracle-solaris-release-cadence-5317
Opening all links with a single Chrome command...
Set handled = 1 (numeric)
/home/igor/scraping1 > [0421/032140.178718:WARNING:chrome_main_linux.cc(80)] Read channel stable from /opt/google/chrome/CHROME_VERSION_EX
TRA
[360161:360183:0421/032145.904524:ERROR:registration_request.cc(291)] Registration response error message: DEPRECATED_ENDPOINT
Created TensorFlow Lite XNNPACK delegate for CPU.
Attempting to use a delegate that only supports static-sized tensors with a graph that has dynamic-sized tensors (tensor#-1 is a dynamic-s
ized tensor).
Created TensorFlow Lite XNNPACK delegate for CPU.
```

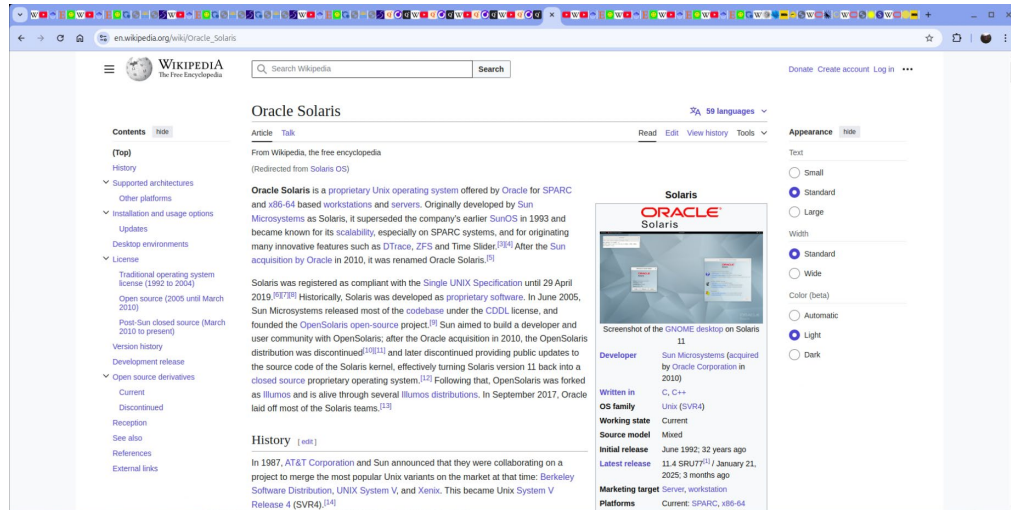
Browser sessions (5 top references for chosen engine).



Choose "0", open all search engines with 5 top references per engine (you can tune accordingly your needs).

```
/home/igor/scraping1 > search_all.ms
Loading .mshellrc...
Loaded environment: PATH=/usr/bin:/bin:/usr/sbin:/usr/local/bin:.$PATH
Loaded alias: ll='ls -l'
Loaded alias: home='cd ~'
Loaded environment: EDITOR=nano
Lua state initialized successfully
Range function defined successfully
Loading history...
"Search Engine Query Tool"
"-----"
"Enter search query (press Enter for default 'quantum computing'):"
Solaris
"Choose search engine:"
"1 - DuckDuckGo"
"2 - Bing"
"3 - Ecosia"
"4 - Qwant"
"5 - Yandex"
"6 - Saved quantum computing links"
"0 - All search engines (without saved links)"
0
```

Open sessions for all search engines that you use.



Open scrape session.

```
/home/igor/scraping1 > scrape.ms
Loading .mshellrc...
Loaded environment: PATH=/usr/bin:/bin:/usr/sbin:/usr/local/bin:.$PATH
Loaded alias: ll='ls -l'
Loaded alias: home='cd ~'
Loaded environment: EDITOR=nano
Lua state initialized successfully
Range function defined successfully
Loading history...
"Web Scraping Tool for mshell"
"-----"
"This tool can scrape content from websites and prepare it for ollama processing"
"Options:"
"1 - Scrape a single URL"
"2 - Scrape from recent search results"
"3 - Run a new search and scrape results"
"0 - Exit"
1
"You selected option: 1"
"Launching URL scraper..."
Loading .mshellrc...
Loaded environment: PATH=/usr/bin:/bin:/usr/sbin:/usr/local/bin:.$PATH
Loaded alias: ll='ls -l'
Loaded alias: home='cd ~'
Loaded environment: EDITOR=nano
Lua state initialized successfully
Range function defined successfully
Loading history...
Set OUTPUT_DIR = "scraped_content" (string)
Set FORMAT = "text" (string)
"Enter URL to scrape:"
en.wikipedia.org/wiki/Oracle_Solaris
```

Scrape url that you are interesting for.

```
/home/igor/scraping1 > scrape.ms
Loading .mshellrc...
Loaded environment: PATH=/usr/bin:/bin:/usr/sbin:/usr/local/bin:.$PATH
Loaded alias: ll='ls -l'
Loaded alias: home='cd ~'
Loaded environment: EDITOR=nano
Lua state initialized successfully
Range function defined successfully
Loading history...
"Web Scraping Tool for mshell"
"-----"
"This tool can scrape content from websites and prepare it for ollama processing"
"Options:"
"1 - Scrape a single URL"
"2 - Scrape from recent search results"
"3 - Run a new search and scrape results"
"0 - Exit"
1
"You selected option: 1"
"Launching URL scraper..."
Loading .mshellrc...
Loaded environment: PATH=/usr/bin:/bin:/usr/sbin:/usr/local/bin:.$PATH
Loaded alias: ll='ls -l'
Loaded alias: home='cd ~'
Loaded environment: EDITOR=nano
Lua state initialized successfully
Range function defined successfully
Loading history...
Set OUTPUT_DIR = "scraped_content" (string)
Set FORMAT = "text" (string)
"Enter URL to scrape:"
en.wikipedia.org/wiki/Oracle_Solaris
"Scraping URL: en.wikipedia.org/wiki/Oracle_Solaris"
Successfully scraped: https://en.wikipedia.org/wiki/Oracle_Solaris
Content saved to: scraped_content/en_wikipedia_org_wiki_Oracle_Solaris.txt
Metadata saved to: scraped_content/en_wikipedia_org_wiki_Oracle_Solaris_meta.json
"Done. Check "scraped_content" folder for results."
"Main script completed."
/home/igor/scraping1 > |
```

Files was created at directory repo for scrape content.

```
/home/igor/scraping1/scraped_content > ls
36vibes_com_install_latest_ubuntu_linux_meta.json
36vibes_com_install_latest_ubuntu_linux.txt
devblogs_microsoft_com_dotnet_build_a_model_context_protocol_mcp_server_i_meta.json
devblogs_microsoft_com_dotnet_build_a_model_context_protocol_mcp_server_i.txt
en_wikipedia_org_wiki_Oracle_Solaris_meta.json
en_wikipedia_org_wiki_Oracle_Solaris.txt
github_com_modelcontextprotocol_servers_meta.json
github_com_modelcontextprotocol_servers.txt
itsfoss_com_best_ubuntu_based_linux_distros_meta.json
itsfoss_com_best_ubuntu_based_linux_distros.txt
mcpservers_org_meta.json
mcpservers_org.txt
mcpservers_org.txt_analysis.txt
mcp_so_meta.json
mcp_so.txt
modelcontextprotocol_io_introduction_meta.json
modelcontextprotocol_io_introduction.txt
releases_ubuntu_com_jammy_meta.json
releases_ubuntu_com_jammy.txt
releases_ubuntu_com_jammy.txt_analysis.txt
ubuntu_com_download_desktop_meta.json
ubuntu_com_download_desktop.txt
www_appservgrid_com_meta.json
www_appservgrid_com.txt
www_appservgrid_com.txt_analysis.txt
www_google_com_finance_markets_most_active_meta.json
www_google_com_finance_markets_most_active.txt
www_howtogeek_com_351360_how_to_upgrade_to_the_latest_version_of_ubu_meta.json
www_howtogeek_com_351360_how_to_upgrade_to_the_latest_version_of_ubu.txt
www_lenta_ru_meta.json
www_lenta_ru.txt
www_life_ru_meta.json
www_life_ru.txt
www_techradar_com_best_best_linux_distros_meta.json
www_techradar_com_best_best_linux_distros.txt
www_tecmint_com_ubuntu_based_linux_distributions_meta.json
www_tecmint_com_ubuntu_based_linux_distributions.txt
www_ubuntu_docs_com_ubuntu_linux_websites_and_links_meta.json
www_ubuntu_docs_com_ubuntu_linux_websites_and_links.txt
www_ubuntu_free_com_best_ubuntu_websites_and_links_meta.json
www_ubuntu_free_com_best_ubuntu_websites_and_links.txt
/home/igor/scraping1/scraped_content > |
```

New search at scrape session.

```
Lua state initialized successfully
Range function defined successfully
Loading history...
Set OUTPUT_DIR = "scraped_content" (string)
Set FORMAT = "text" (string)
Set MAX_LINKS = 5 (numeric)
Set SUMMARY_FILE = "search_summary.txt" (string)
"Enter search query:"
Solaris OS releases
"Your query: Solaris OS releases"
"Content of search_query.txt file:"
Solaris OS releases
"Starting search for query: Solaris OS releases"
"Scraping results..."
[0421/040218.545841:WARNING:chrome_main_linux.cc(80)] Read channel stable from /opt/google/chrome/CHROME_VERSION_EXTRA
Found 5 links to process

Scraping link 1/5: https://www.oracle.com/solaris/technologies/releases.html
Successfully scraped and saved to scraped_content/www_oracle_com_solaris_technologies_releases_html.txt

Scraping link 2/5: https://en.wikipedia.org/wiki/Oracle_Solaris
Successfully scraped and saved to scraped_content/en_wikipedia_org_wiki_Oracle_Solaris.txt

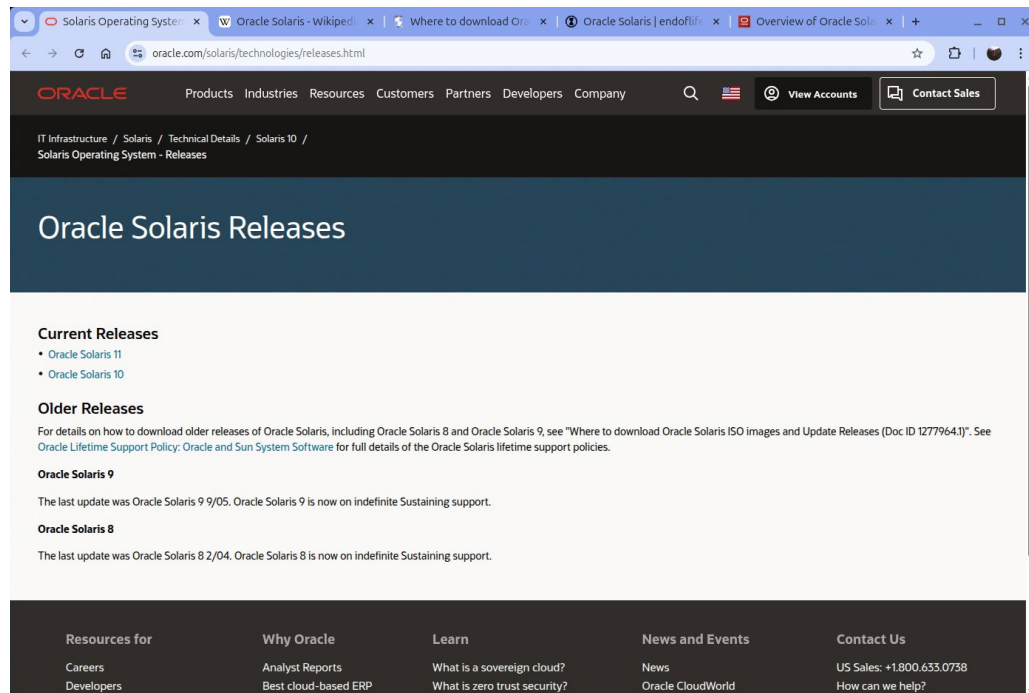
Scraping link 3/5: https://support.oracle.com/knowledge/Sun%20Microsystems/1277964_1.html
Successfully scraped and saved to scraped_content/support_oracle_com_knowledge_sun_20Microsystems_1277964_1_html.txt
Created TensorFlow Lite XNNPACK delegate for CPU.
Attempting to use a delegate that only supports static-sized tensors with a graph that has dynamic-sized tensors (tensor#-1 is a dynamic-sized tensor).
[364105:364132:0421/040223.067536:ERROR:registration_request.cc(291)] Registration response error message: DEPRECATED_ENDPOINT

Scraping link 4/5: https://endoflife.date/oracle-solaris
Successfully scraped and saved to scraped_content/endoflife_date_oracle_solaris.txt
Created TensorFlow Lite XNNPACK delegate for CPU.

Scraping link 5/5: https://forums.oracle.com/ords/apexds/post/overview-of-oracle-solaris-release-cadence-5317
Successfully scraped and saved to scraped_content/forums_oracle_com_ords_apexds_post_overview_of_oracle_solaris_releas.txt

Successfully scraped 5 links
Created summary file: search_summary.txt
"Done. Check "scraped_content" folder for results."
"Main script completed."
```

Open 5 links for new search at scrape session (using selected search engine).



Scrape for recent search results from scrape_content repo.

```

/home/igor/scraping1 > scrape.ms
Loading .mshellrc...
Loaded environment: PATH=/usr/bin:/bin:/usr/sbin:/usr/local/bin:.:$PATH
Loaded alias: ll='ls -l'
Loaded alias: home='cd ~'
Loaded environment: EDITOR=nano
Lua state initialized successfully
Range function defined successfully
Loading history...
"Web Scraping Tool for mshell"
"-----"
"This tool can scrape content from websites and prepare it for ollama processing"
"Options:"
"1 - Scrape a single URL"
"2 - Scrape from recent search results"
"3 - Run a new search and scrape results"
"0 - Exit"
2

```

Scrape for recent search results from scrape_content repo was done.

```

"-----"
"This tool can scrape content from websites and prepare it for ollama processing"
"Options:"
"1 - Scrape a single URL"
"2 - Scrape from recent search results"
"3 - Run a new search and scrape results"
"0 - Exit"
2
"You selected option: 2"
"Launching recent results scraper..."
Loading .mshellrc...
Loaded environment: PATH=/usr/bin:/bin:/usr/sbin:/usr/local/bin:.:$PATH
Loaded alias: ll='ls -l'
Loaded alias: home='cd ~'
Loaded environment: EDITOR=nano
Lua state initialized successfully
Range function defined successfully
Loading history...
Set OUTPUT_DIR = "scraped_content" (string)
Set FORMAT = "text" (string)
Set MAX_LINKS = 5 (numeric)
Set SUMMARY_FILE = "search_summary.txt" (string)
"Using search_results.txt file"
Found 5 links to process

Scraping link 1/5: https://www.oracle.com/solaris/technologies/releases.html
Successfully scraped and saved to scraped_content/www_oracle_com_solaris_technologies_releases_html.txt

Scraping link 2/5: https://en.wikipedia.org/wiki/Oracle_Solaris
Successfully scraped and saved to scraped_content/en_wikipedia_org_wiki_Oracle_Solaris.txt

Scraping link 3/5: https://support.oracle.com/knowledge/Sun%20Microsystems/1277964_1.html
Successfully scraped and saved to scraped_content/support_oracle_com_knowledge_Sun_20Microsystems_1277964_1_html.txt

Scraping link 4/5: https://endoflife.date/oracle-solaris
Successfully scraped and saved to scraped_content/endoflife_date_oracle_solaris.txt

Scraping link 5/5: https://forums.oracle.com/ords/apexds/post/overview-of-oracle-solaris-release-cadence-5317
Successfully scraped and saved to scraped_content/forums_oracle_com_ords_apexds_post_overview_of_oracle_solaris_releas.txt

Successfully scraped 5 links
Created summary file: search_summary.txt
"Done. Check "scraped_content" folder for results."
"Main script completed."
/home/igor/scraping1 >

```

Analysis based on recent search results. Select of data for analysis from content repo.

```

/home/igor/scraping1 > ./analyze.ms
Loading .mshellrc...
Loaded environment: PATH=/usr/bin:/bin:/usr/sbin:/usr/local/bin:.$SPATH
Loaded alias: ll='ls -l'
Loaded alias: home='cd ~'
Loaded environment: EDITOR=nano
Lua state initialized successfully
Range function defined successfully
Loading history...
"Available files for analysis:"
-----
-rw-rw-r-- 1 igor igor 8636 Apr 14 23:38 36vibes_com_install_latest_ubuntu_linux.txt
-rw-rw-r-- 1 igor igor 22815 Apr 15 20:55 devblogs_microsoft_com_dotnet_build_a_model_context_protocol_mcp_server_i.txt
-rw-rw-r-- 1 igor igor 2662 Apr 21 04:09 endoflife_date_oracle_solaris.txt
-rw-rw-r-- 1 igor igor 62371 Apr 21 04:09 en_wikipedia_org_wiki_Oracle_Solaris.txt
-rw-rw-r-- 1 igor igor 21034 Apr 21 04:09 forums_oracle_com_ord_s_apexds_post_overview_of_oracle_solaris_releas.txt
-rw-rw-r-- 1 igor igor 54629 Apr 15 20:54 github_com_modelcontextprotocol_servers.txt
-rw-rw-r-- 1 igor igor 12091 Apr 14 22:28 itsfoss_com_best_ubuntu_based_linux_distros.txt
-rw-rw-r-- 1 igor igor 26506 Apr 15 20:54 mcpservers_org.txt
-rw-rw-r-- 1 igor igor 1408 Apr 16 06:23 mcpservers_org.txt_analysis.txt
-rw-rw-r-- 1 igor igor 18195 Apr 15 20:54 mcp_so.txt
-rw-rw-r-- 1 igor igor 4465 Apr 15 20:54 modelcontextprotocol_io_introduction.txt
-rw-rw-r-- 1 igor igor 2735 Apr 14 23:38 releases_ubuntu_com_jammy.txt
-rw-rw-r-- 1 igor igor 1380 Apr 16 06:18 releases_ubuntu_com_jammy.txt_analysis.txt
-rw-rw-r-- 1 igor igor 1030 Apr 21 04:09 support_oracle_com_knowledge_Sun_20Microsystems_1277964_1_html.txt
-rw-rw-r-- 1 igor igor 5322 Apr 14 23:38 ubuntu_com_download_desktop.txt
-rw-rw-r-- 1 igor igor 7221 Apr 12 17:51 www_appservgrid_com.txt
-rw-rw-r-- 1 igor igor 4872 Apr 17 04:30 www_appservgrid_com.txt_analysis.txt
-rw-rw-r-- 1 igor igor 7523 Apr 12 18:45 www_google_com_finance_markets_most_active.txt
-rw-rw-r-- 1 igor igor 9884 Apr 14 23:38 www_howtogeek_com_351360_how_to_upgrade_to_the_latest_version_of_ubu.txt
-rw-rw-r-- 1 igor igor 29546 Apr 11 23:49 www_lenta_ru.txt
-rw-rw-r-- 1 igor igor 14816 Apr 14 07:39 www_life_ru.txt
-rw-rw-r-- 1 igor igor 1125 Apr 21 04:09 www_oracle_com_solaris_technologies_releases_html.txt
-rw-rw-r-- 1 igor igor 35474 Apr 14 22:28 www_techradar_com_best_best_linux_distros.txt
-rw-rw-r-- 1 igor igor 21445 Apr 14 22:29 www_tecmint_com_ubuntu_based_linux_distributions.txt
-rw-rw-r-- 1 igor igor 3741 Apr 14 22:28 www_ubuntu_docs_com_ubuntu_linux_websites_and_links.txt
-rw-rw-r-- 1 igor igor 7407 Apr 14 22:28 www_ubuntu_free_com_best_ubuntu_websites_and_links.txt
"Enter file name (without path):"
www_oracle_com_solaris_technologies_releases_html.txt

```

Choosing analysis types (you can tune accordingly your needs).

```

"Available files for analysis:"
-----
-rw-rw-r-- 1 igor igor 8636 Apr 14 23:38 36vibes_com_install_latest_ubuntu_linux.txt
-rw-rw-r-- 1 igor igor 22815 Apr 15 20:55 devblogs_microsoft_com_dotnet_build_a_model_context_protocol_mcp_server_i.txt
-rw-rw-r-- 1 igor igor 2662 Apr 21 04:09 endoflife_date_oracle_solaris.txt
-rw-rw-r-- 1 igor igor 62371 Apr 21 04:09 en_wikipedia_org_wiki_Oracle_Solaris.txt
-rw-rw-r-- 1 igor igor 21034 Apr 21 04:09 forums_oracle_com_ord_s_apexds_post_overview_of_oracle_solaris_releas.txt
-rw-rw-r-- 1 igor igor 54629 Apr 15 20:54 github_com_modelcontextprotocol_servers.txt
-rw-rw-r-- 1 igor igor 12091 Apr 14 22:28 itsfoss_com_best_ubuntu_based_linux_distros.txt
-rw-rw-r-- 1 igor igor 26506 Apr 15 20:54 mcpservers_org.txt
-rw-rw-r-- 1 igor igor 1408 Apr 16 06:23 mcpservers_org.txt_analysis.txt
-rw-rw-r-- 1 igor igor 18195 Apr 15 20:54 mcp_so.txt
-rw-rw-r-- 1 igor igor 4465 Apr 15 20:54 modelcontextprotocol_io_introduction.txt
-rw-rw-r-- 1 igor igor 2735 Apr 14 23:38 releases_ubuntu_com_jammy.txt
-rw-rw-r-- 1 igor igor 1380 Apr 16 06:18 releases_ubuntu_com_jammy.txt_analysis.txt
-rw-rw-r-- 1 igor igor 1030 Apr 21 04:09 support_oracle_com_knowledge_Sun_20Microsystems_1277964_1_html.txt
-rw-rw-r-- 1 igor igor 5322 Apr 14 23:38 ubuntu_com_download_desktop.txt
-rw-rw-r-- 1 igor igor 7221 Apr 12 17:51 www_appservgrid_com.txt
-rw-rw-r-- 1 igor igor 4872 Apr 17 04:30 www_appservgrid_com.txt_analysis.txt
-rw-rw-r-- 1 igor igor 7523 Apr 12 18:45 www_google_com_finance_markets_most_active.txt
-rw-rw-r-- 1 igor igor 9884 Apr 14 23:38 www_howtogeek_com_351360_how_to_upgrade_to_the_latest_version_of_ubu.txt
-rw-rw-r-- 1 igor igor 29546 Apr 11 23:49 www_lenta_ru.txt
-rw-rw-r-- 1 igor igor 14816 Apr 14 07:39 www_life_ru.txt
-rw-rw-r-- 1 igor igor 1125 Apr 21 04:09 www_oracle_com_solaris_technologies_releases_html.txt
-rw-rw-r-- 1 igor igor 35474 Apr 14 22:28 www_techradar_com_best_best_linux_distros.txt
-rw-rw-r-- 1 igor igor 21445 Apr 14 22:29 www_tecmint_com_ubuntu_based_linux_distributions.txt
-rw-rw-r-- 1 igor igor 3741 Apr 14 22:28 www_ubuntu_docs_com_ubuntu_linux_websites_and_links.txt
-rw-rw-r-- 1 igor igor 7407 Apr 14 22:28 www_ubuntu_free_com_best_ubuntu_websites_and_links.txt
"Enter file name (without path):"
www_oracle_com_solaris_technologies_releases_html.txt
Set FILE = "/home/igor/scraping1/scraped_content/$FILE_NAME" (string)
Set CHUNK = "/tmp/chunk.txt" (string)
Set CMD_FILE = "/tmp/ollama_batch.ms" (string)
Set RESULT_FILE = "/tmp/ollama_output.txt" (string)
"Reading from file: www_oracle_com_solaris_technologies_releases_html.txt"
"Select analysis type:"
"1. General summary"
"2. Key points extraction"
"3. Technical analysis"
"4. Comparison with industry standards"
"5. Custom prompt"

```

Choosing analysis types - II (you can tune accordingly your needs).

```
Lua state initialized successfully
Range function defined successfully
Loading history...
"Available files for analysis:"
"-----"
-rw-rw-r-- 1 igor igor 8636 Apr 14 23:38 36vibes_com_install_latest_ubuntu_linux.txt
-rw-rw-r-- 1 igor igor 22815 Apr 15 20:55 devblogs_microsoft_com_dotnet_build_a_model_context_protocol_mcp_server_i.txt
-rw-rw-r-- 1 igor igor 2662 Apr 21 04:09 endoflife_date_oracle_solaris.txt
-rw-rw-r-- 1 igor igor 62371 Apr 21 04:09 en_wikipedia_org_wiki_Oracle_Solaris.txt
-rw-rw-r-- 1 igor igor 21034 Apr 21 04:09 forums_oracle_com_orcls_apexds_post_overview_of_oracle_solaris_releas.txt
-rw-rw-r-- 1 igor igor 54629 Apr 15 20:54 github_com_modelcontextprotocol_servers.txt
-rw-rw-r-- 1 igor igor 12091 Apr 14 22:28 itsfoss_com_best_ubuntu_based_linux_distros.txt
-rw-rw-r-- 1 igor igor 26506 Apr 15 20:54 mcpservers_org.txt
-rw-rw-r-- 1 igor igor 1408 Apr 16 06:23 mcpservers_org.txt_analysis.txt
-rw-rw-r-- 1 igor igor 18195 Apr 15 20:54 mcp_so.txt
-rw-rw-r-- 1 igor igor 4465 Apr 15 20:54 modelcontextprotocol_io_introduction.txt
-rw-rw-r-- 1 igor igor 2735 Apr 14 23:38 releases_ubuntu_com_jammy.txt
-rw-rw-r-- 1 igor igor 1380 Apr 16 06:18 releases_ubuntu_com_jammy.txt_analysis.txt
-rw-rw-r-- 1 igor igor 1030 Apr 21 04:09 support_oracle_com_knowledge_Sun_20Microsystems_1277964_1_html.txt
-rw-rw-r-- 1 igor igor 5322 Apr 14 23:38 ubuntu_com_download_desktop.txt
-rw-rw-r-- 1 igor igor 7221 Apr 12 17:51 www_appservgrid_com.txt
-rw-rw-r-- 1 igor igor 4872 Apr 17 04:30 www_appservgrid_com.txt_analysis.txt
-rw-rw-r-- 1 igor igor 7523 Apr 12 18:45 www_google_com_finance_markets_most_active.txt
-rw-rw-r-- 1 igor igor 9884 Apr 14 23:38 www_howtogeek_com_351360_how_to_upgrade_to_the_latest_version_of_ubu.txt
-rw-rw-r-- 1 igor igor 29546 Apr 11 23:49 www_lenta_ru.txt
-rw-rw-r-- 1 igor igor 14816 Apr 14 07:39 www_life_ru.txt
-rw-rw-r-- 1 igor igor 1125 Apr 21 04:09 www_oracle_com_solaris_technologies_releases_html.txt
-rw-rw-r-- 1 igor igor 35474 Apr 14 22:28 www_techradar_com_best_best_linux_distros.txt
-rw-rw-r-- 1 igor igor 21445 Apr 14 22:29 www_tecmint_com_ubuntu_based_linux_distributions.txt
-rw-rw-r-- 1 igor igor 3741 Apr 14 22:28 www_ubuntu_docs_com_ubuntu_linux_websites_and_links.txt
-rw-rw-r-- 1 igor igor 7407 Apr 14 22:28 www_ubuntufree_com_best_ubuntu_websites_and_links.txt
"Enter file name (without path):"
www_oracle_com_solaris_technologies_releases_html.txt
Set FILE = "/home/igor/scraping1/scraped_content/$FILE_NAME" (string)
Set CHUNK = "/tmp/chunk.txt" (string)
Set CMD_FILE = "/tmp/ollama_batch.ms" (string)
Set RESULT_FILE = "/tmp/ollama_output.txt" (string)
"Reading from file: www_oracle_com_solaris_technologies_releases_html.txt"
"Select analysis type:"
"1. General summary"
"2. Key points extraction"
"3. Technical analysis"
"4. Comparison with industry standards"
"5. Custom prompt"
1
```

Result of analysis.

```
Set CMD_FILE = "/tmp/ollama_batch.ms" (string)
Set RESULT_FILE = "/tmp/_ollama_output.txt" (string)
"Reading from file: www_oracle_com_solaris_technologies_releases_html.txt"
"Select analysis type:"
"1. General summary"
"2. Key points extraction"
"3. Technical analysis"
"4. Comparison with industry standards"
"5. Custom prompt"
1

==== Command to run ====
#!/bin/mshell
ollama:exec "Provide a general summary of the following content: * Skip to content * Accessibility Policy Close Search Search Oracle
.com * QUICK LINKS * Oracle Cloud Infrastructure * Oracle Fusion Cloud Applications * Oracle Database * Download Java * Caree
rs at Oracle Search Country View Accounts Back Cloud Account Sign in to Cloud Sign Up for Free Cloud Tier Oracle Account * Sign-I
n * Create an Account * Help * Sign Out Contact Sales Menu Menu # Oracle Solaris Releases #### Current Releases * Oracle Sol
aris 11 * Oracle Solaris 10 #### Older Releases For details on how to download older releases of Oracle Solaris, including Oracle Sola
ris 8 and Oracle Solaris 9, see \"Where to download Oracle Solaris ISO images and Update Releases (Doc ID 1277964.1)\". See Oracle Lifetim
e Support Policy: Oracle and Sun System Software for full details of the Oracle Solaris lifetime support policies. **Oracle Solaris 9**
The last update was Oracle Solaris 9 9/05. Oracle Solaris 9 is now on indefinite Sustaining support. **Oracle Solaris 8** The last updat
e was Oracle Solaris 8 2/04. Oracle Solaris 8 is now on indefinite Sustaining support. "
=====
"Analyzing content..."
sh: 1: Syntax error: Unterminated quoted string
Error: Command not found or failed: 9 is now on indefinite Sustaining support. **Oracle Solaris 8** The last update was Oracle Solaris 8 2
/04. Oracle Solaris 8 is now on indefinite Sustaining support. "
"==== ANALYSIS RESULTS ====="
Loading .mshellrc...
Loaded environment: PATH=/usr/bin:/bin:/usr/sbin:/usr/local/bin:.$SPATH
Loaded alias: ll='ls -l'
Loaded alias: home='cd ~'
Loaded environment: EDITOR=nano
Lua state initialized successfully
Range function defined successfully
Loading history...
The content provided is a summary of Oracle Solaris releases, focusing on current and older versions. It includes links to download ISO im
ages and update releases for Oracle Solaris 8 and 9, as well as details about the Oracle Solaris lifetime support policy. The page also m
entions specific release notes for Oracle Solaris 11 and 10.
"==== ANALYSIS RESULTS ====="
"Save analysis? (y/n)"
y
"Analysis saved to: /home/igor/scraping1/scraped_content/${FILE_NAME}_analysis.txt"
"Analysis completed."
/home/igor/scraping1 >
```

Using mel editor to edit the result of analysis.

```
/home/igor/scraping1 > mel www_oracle_com_solaris_technologies_releases_html_analysis.txt

Terminal
1 The content provided is a summary of Oracle Solaris releases,
2 focusing on current and older versions. It includes links to
3 download ISO images and update releases for Oracle Solaris 8 and 9,
4 as well as details about the Oracle Solaris lifetime support policy.
5 The page also mentions specific release notes for Oracle Solaris 11 and 10.
6 ~
7 ~
8 ~
9 ~
10 ~
11 ~
12 ~
13 ~
www_oracle_com_solar - 5 lines (modified) Line 1/5 Col 63
```

Analysis of market trends based on market activities example (ubuntu 24.04 LTS + mshell + on-premise ollama or Linux local LLM evaluation framework).

Most Active Stocks - Google Finance

Search for stocks, ETFs & more

Explore market trends

Market indexes | **Most active** | Gainers | Losers | Climate leaders | Crypto

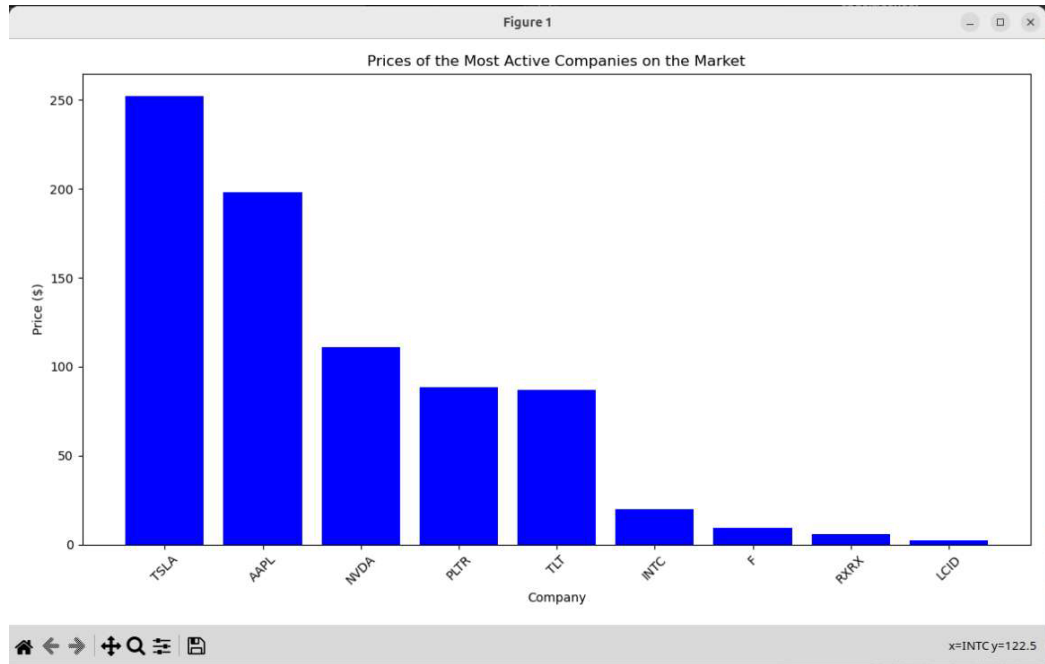
In the news
6 stories based on most active

Most active

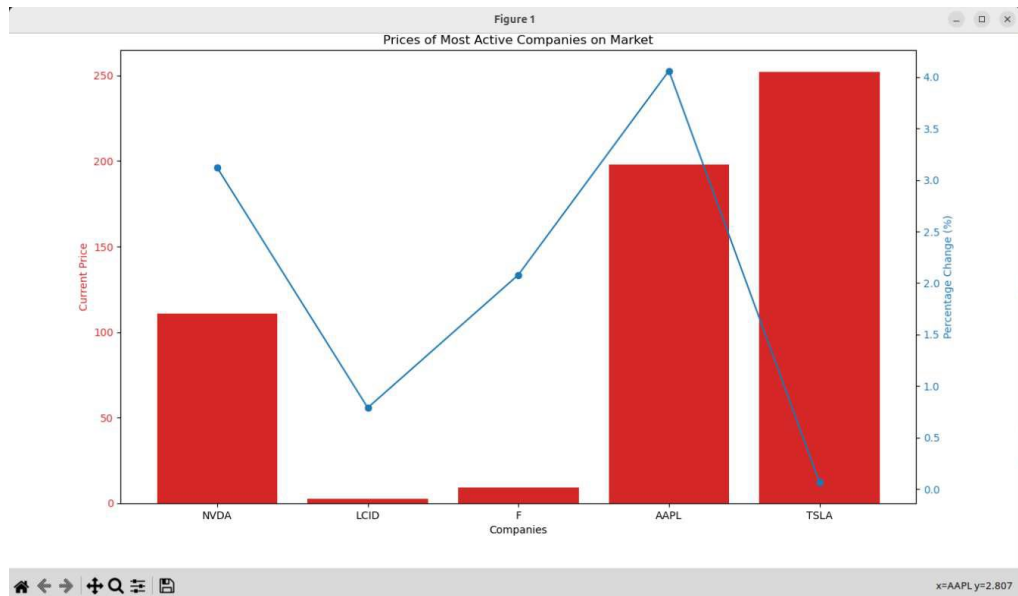
The stocks or funds with the highest trading volume (in shares) during the current trading session

Symbol	Company Name	Price	Change	% Change
NVDA	NVIDIA Corp	\$110.93	+\$3.36	↑ 3.12%
LCID	Lucid Group Inc	\$2.50	-\$0.020	↓ 0.79%
F	Ford Motor Co	\$9.33	+\$0.19	↑ 2.08%
TSLA	Tesla Inc	\$252.24	-\$0.16	↓ 0.064%
INTC	Intel Corp	\$19.74	-\$0.14	↓ 0.70%
PLTR	Palantir Technologies Inc	\$88.55	-\$0.040	↓ 0.045%
TLT	iShares 20+ Year Treasury Bond ETF	\$86.89	+\$0.47	↑ 0.54%
AAPL	Apple Inc	\$198.15	+\$7.73	↑ 4.06%
DXRX				

Prices of most active companies on the market.



Changing the prices for most active companies.



Market analysis based on most active trends.

```
Terminal
1 ### Summary: The US stock market showed positive trends on
2 April 11, 2025, despite concerns about a potential recession.
3 The Dow Jones Industrial Average and the S&P 500 Index both
4 experienced gains of around 1.5-1.8%, with the Nasdaq
5 Composite increasing by nearly 2%. Treasury yields also surged
6 during the trading session.
7 ### Market Analysis: The robust performance of major US indices
8 against the backdrop of economic uncertainty suggests a cautious
9 optimism among investors. The increase in Treasury yields could
10 indicate growing inflationary pressures, which might impact
11 consumer spending and business investments. However, the rise
12 in stock prices might be attributed to expectations of potential
13 growth or recovery in the economy. Despite these gains, investors
14 remain vigilant about the possibility of a recession, as evidenced
15 by the decline in the VIX (Volatility Index), which measures
16 market sentiment. This suggests that while there is some confidence
17 in the market's ability to withstand potential challenges, concerns
18 remain regarding broader economic conditions.
19 ### Key Takeaways:
20 1. **Stock Market Performance**: Major indices showed gains across
21 the board, with the Nasdaq leading the charge.
22 2. **Treasury Yields**: Elevated yields indicate rising inflationary
23 pressures.
24 3. **Market Sentiment**: The VIX decline suggests cautious optimism,
25 but underlying concerns about a potential recession persist.
26 ### Recommendations: - Investors should maintain a balanced portfolio
27 to mitigate risks associated with potential economic downturns.
28 - Stay informed about macroeconomic indicators and central bank policies
29 that can influence market trends.
30 - Consider diversifying investments across different asset
31 classes (stocks, bonds, etc.) to smooth out returns.
32 ~
33 ~
34 ~
35 ~
a.txt - 31 lines (modified) Line 31/31 Col 57
```

If you need to make indexing for your intranet you can use classical search engine and after this make analysis of single url based on webscraping content module for mshell.)

Art2Dec Search Engine

AND Search OR Search
 Phrase Search Tolerant Search

Search: Only in category "" All sites

Highlight found keyword results: ▼

Show results per page

Categories

[Art2Dec Sites](#)

[AppServGrid Blog](#) » [Java to write](#) » [Reference Cards](#) »

[polyglot](#)

Most popular searches:

Query	Count	Results	Last queried
cjk	83	1	2025-04-21 12:53:04
c tutorial	71	1	2025-04-21 08:46:56
java	66	35	2025-04-21 02:48:47
linux	50	5	2025-04-21 14:07:57
cobol	48	0	2025-04-21 00:10:43

 2010-2025 year.

Adding info: igor.lukyanov@appservgrid.com Art2Dec Soft Lab.

04.21.2025

In order to see the whole picture, you need to make assessments, not analysis. "War of Meanings" Igor.