



# From Vision to Reality

Marc Bernard - December 2024

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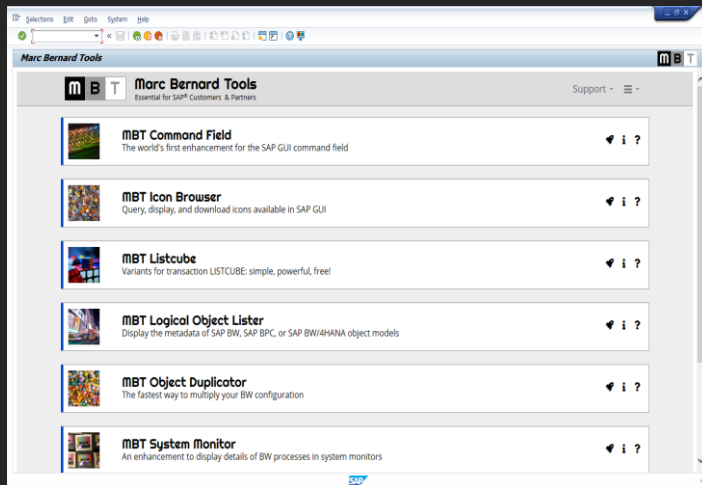
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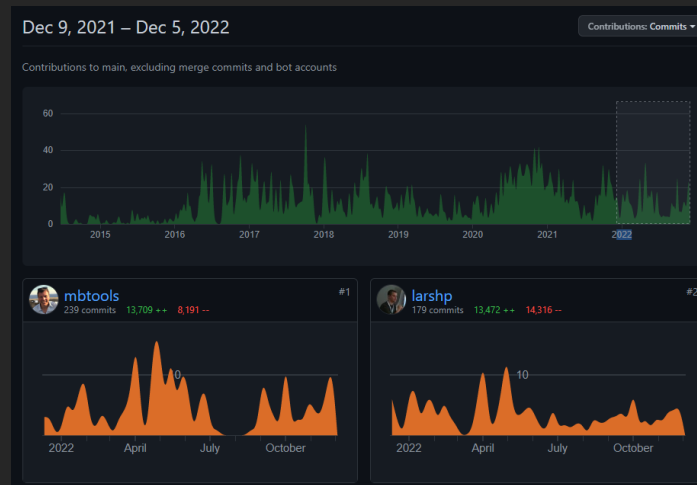


# Marc Bernard

Building awesome open-source tools  
for SAP customers, partners, and developers



Marc Bernard Tools



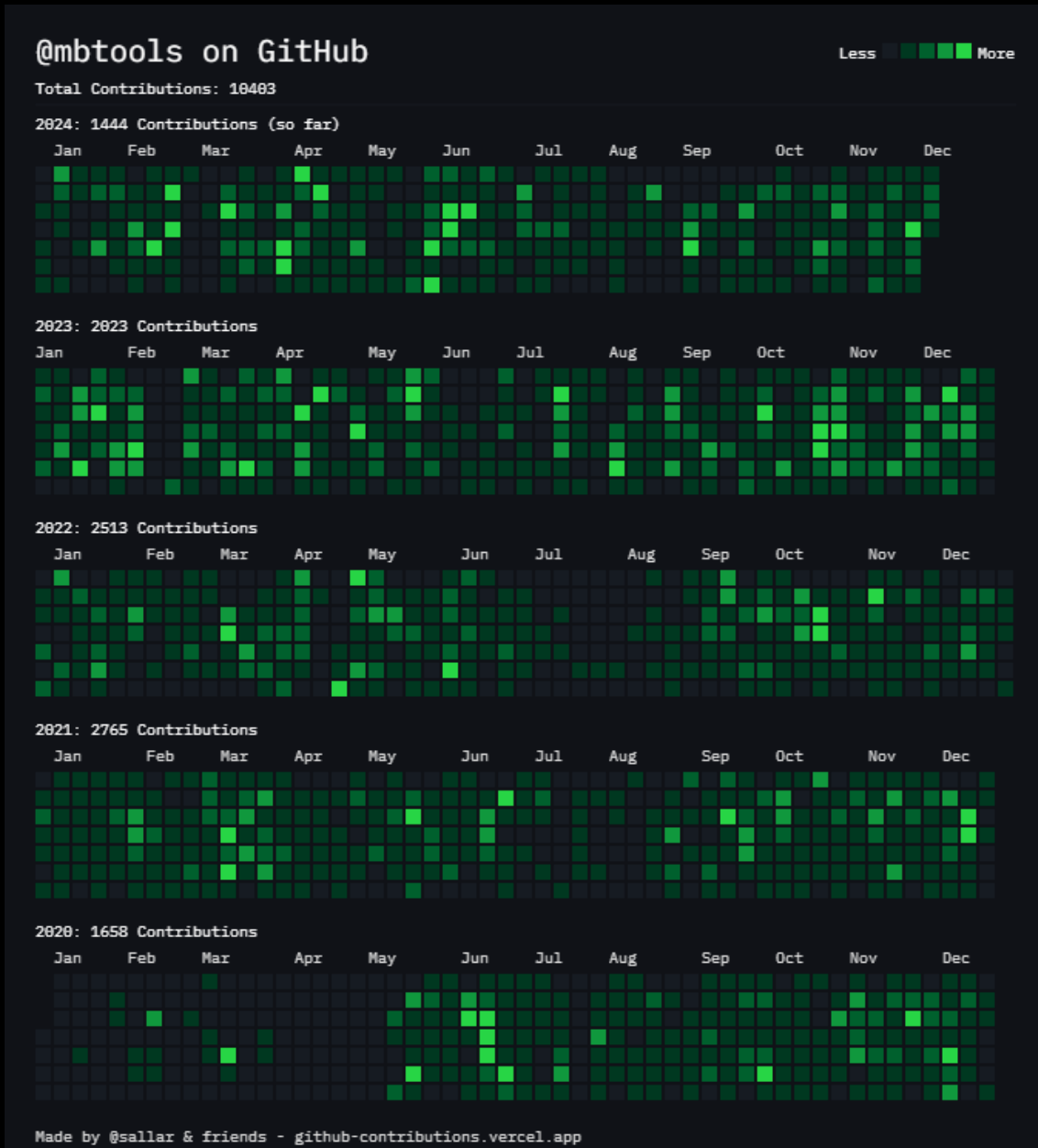
Top Contributor to abapGit

The screenshot shows the 'Package List' page on the abapGit registry. The page has a filter set to 'Only Favorites' and 'Detail'. The table below lists various packages:

Package	Name	Version	Description
SABAPCONF-2024	abapconf-2024	0.0.1	ABAPConf Demo
SABAPCONF	abapconf	1.2.3	abapconf
SAJSON	ajson	1.10.0	Yet another json parser for ABAP
SAPM	apm	1.0.0-beta	A Package Manager for ABAP
SEMOJI	emoji	1.1.0	Emoji for ABAP
SMARKDOWN	markdown	1.0.0	Markdown for ABAP
SPACKAGE-JSON	package-json	1.0.0	Package JSON for ABAP
SPACOTE	pacote	1.0.0	Fetches package manifests and tarballs from the apm registry
SPERSIST-APM	persist-apm	1.0.0	Key value store for apm
SSEMVER-SAP	semver-sap	1.0.0	Mapping between SAP Releases and Semantic Versions (SAPVER)
SSEMVER	semver	7.6.2	Semantic Version
STAP	tap	1.0.0	TAP for ABAP
STAR	tar	1.0.0	Tar for ABAP

Creator of apm





## My Open-Source Contributions

- [abapGit](#) - Too many to count
- [abaplint](#) - Some little additions and improvements
- [ajson](#) - Added diff and sort utilities
- [ABAP Logger](#) - Maintenance, fixes, down ports
- [ABAP Mime Editor](#) - Added editor for W3MI objects
- [Monaco](#) - Update to ABAP 7.5x language syntax
- [Shields](#) - Added badges for "[ClearlyDefined Score](#)" and "[GitHub Check Runs](#)"
- [TODO to Issue Action](#) - Added support for ABAP
- [Exercism](#) - One of the initial creators of the ABAP Track and contributor to several exercises
- [Verdaccio](#) - Second most active contributor 😊
- [SPDX](#) - Improving notes about GPL licenses
- [Suffusion](#) - Lead maintainer of WordPress Theme
- [React JSON View](#) - Clipboard integration
- [npm](#) - Improving docs, fixing bugs, replacing dependencies ([cli](#), [semver](#), [pacote](#), [npm-registry-fetch](#), [promise-spawn](#))



# Storytime

Once upon a time, there was an  
ABAP Developer...

She had a friend in a far away land...

One day, they wanted to share some ABAP code...



# Reasons Developers ❤️ Open Source

Collaboration & Community

Flexibility & Customization

Learning & Development

Innovation

Cost

Quality



# What's Missing

Centralized Source of Packages

Version Management

Dependency Management

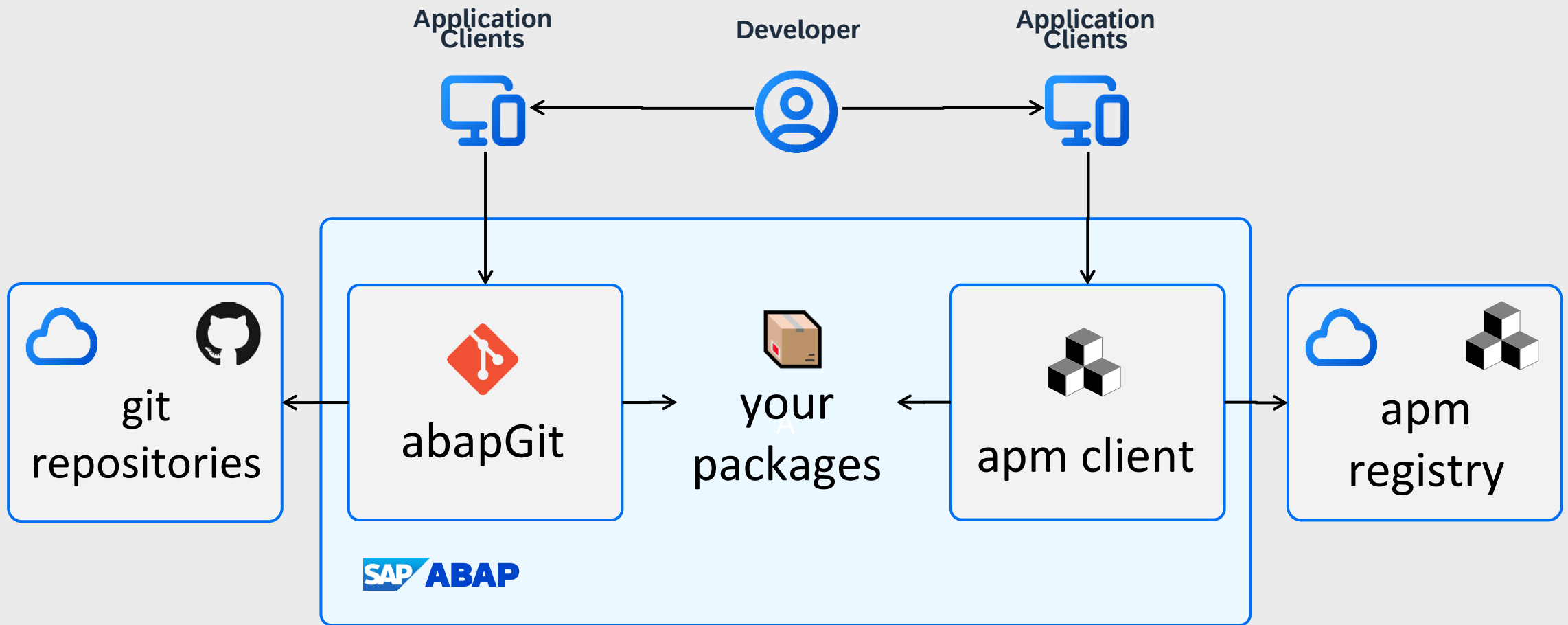
Ease of Use

Collaboration & Sharing

Simplified Deployment



# Overview Diagram





# What is apm?

Package Manager for ABAP 

apm Website 

apm Registry 



# What is apm?

Package Manager

Public Beta  
Mid December



Registry



# What is apm?

Package Manager for ABAP 

apm Website 

apm Registry 



# The apm Website

<https://abappm.com>

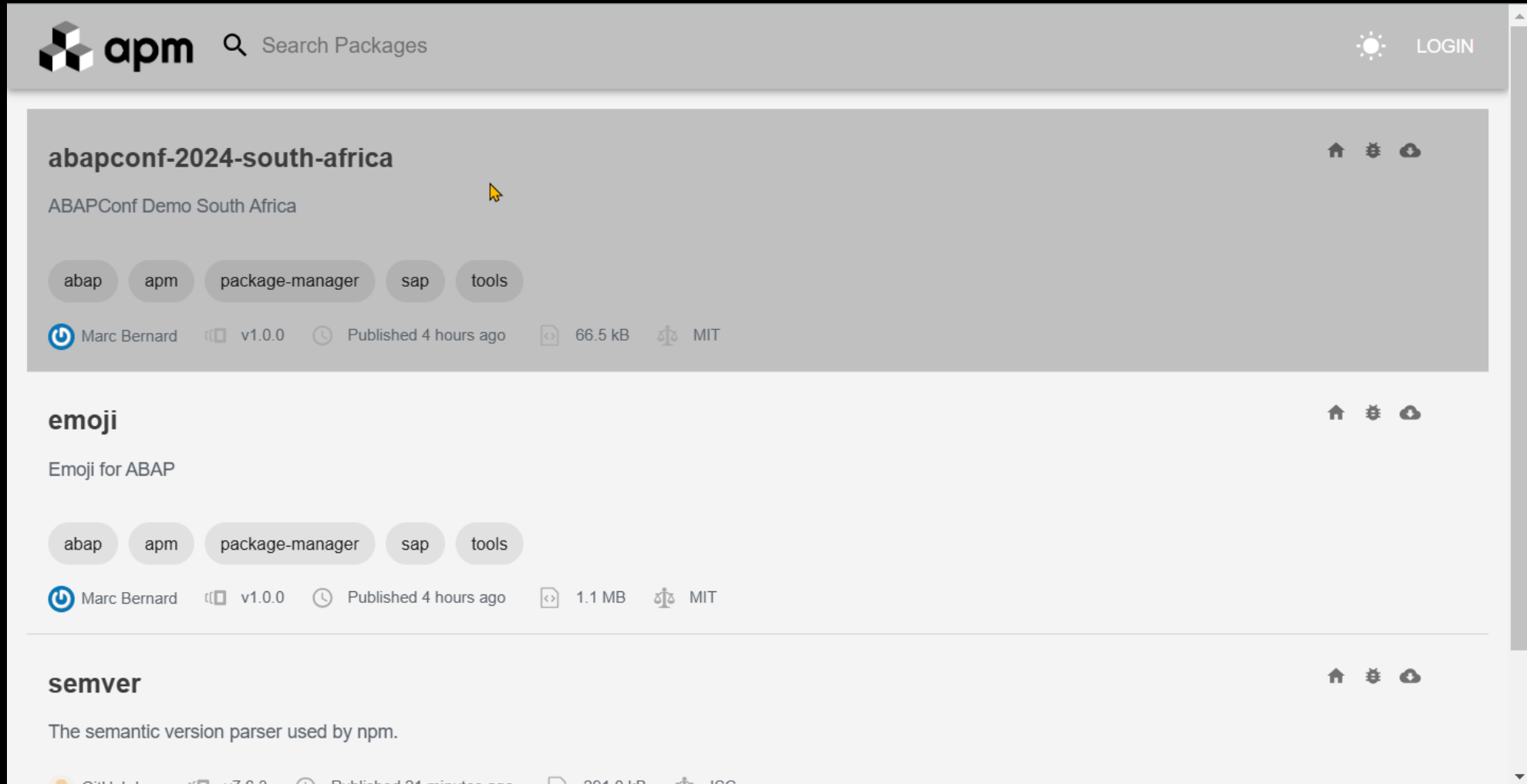
Entry to the  
World of Package Management for ABAP

Guides & Documentation

Account Management  
(8€/user/month)



# The apm Website

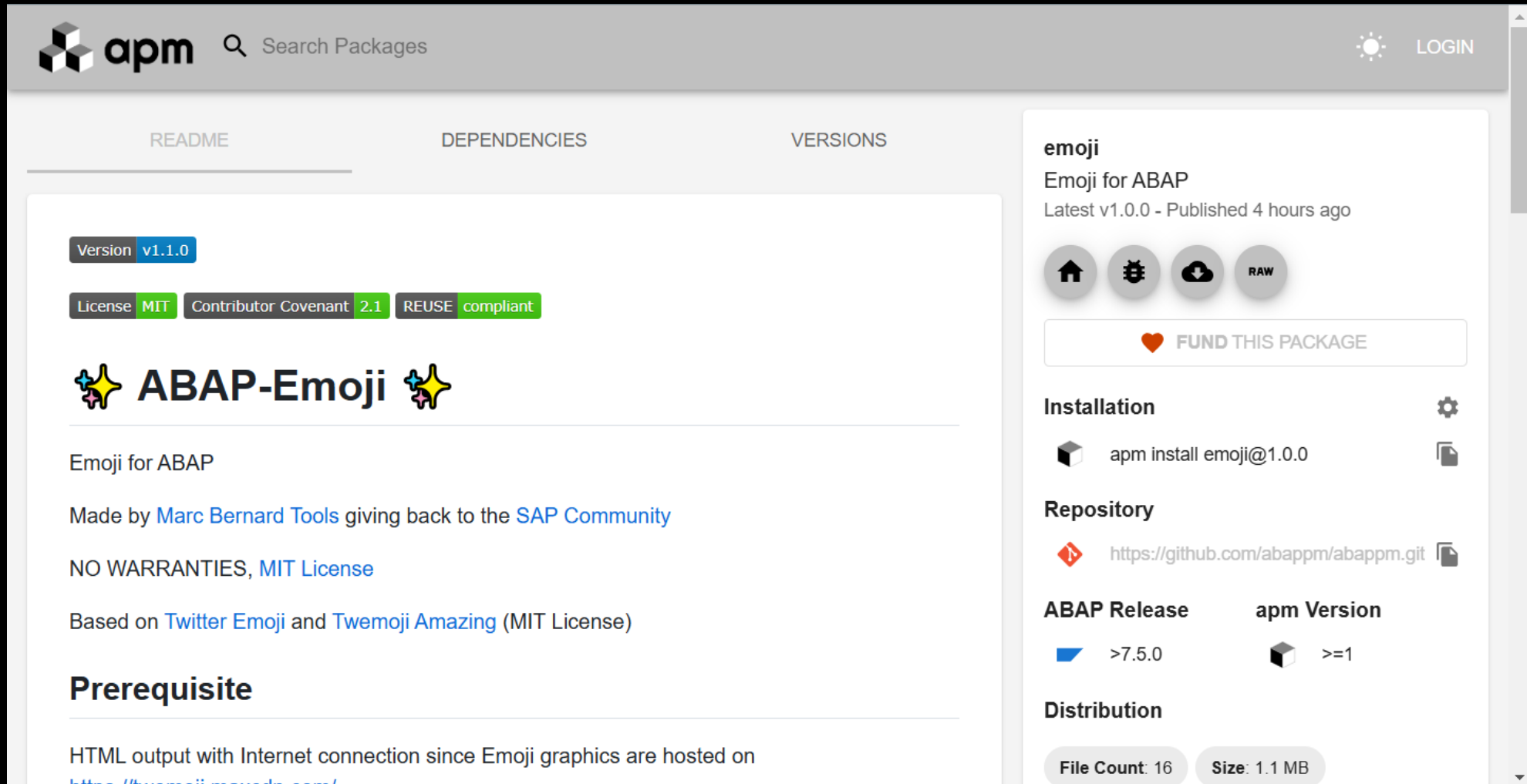


The screenshot displays the apm website interface. At the top left is the apm logo and a search bar labeled "Search Packages". At the top right is a "LOGIN" button. The main content area shows three package cards:

- abapconf-2024-south-africa**: ABAPConf Demo South Africa. Tags: abap, apm, package-manager, sap, tools. Author: Marc Bernard. Version: v1.0.0. Published: 4 hours ago. Size: 66.5 kB. License: MIT.
- emoji**: Emoji for ABAP. Tags: abap, apm, package-manager, sap, tools. Author: Marc Bernard. Version: v1.0.0. Published: 4 hours ago. Size: 1.1 MB. License: MIT.
- semver**: The semantic version parser used by npm. Author: GitLab Inc. Version: v7.6.3. Published: 21 minutes ago. Size: 291.0 kB. License: ISC.



# The apm Website



The screenshot displays the APM website interface for the 'emoji' package. At the top, there is a search bar with the text 'Search Packages' and a 'LOGIN' button. The main content area is divided into three tabs: 'README', 'DEPENDENCIES', and 'VERSIONS'. The 'README' tab is active, showing the package details for 'emoji' (Emoji for ABAP), version v1.1.0, published 4 hours ago. The package is licensed under MIT and is REUSE compliant. The README text includes: 'Emoji for ABAP', 'Made by Marc Bernard Tools giving back to the SAP Community', 'NO WARRANTIES, MIT License', and 'Based on Twitter Emoji and Twemoji Amazing (MIT License)'. A 'Prerequisite' section is also visible, mentioning HTML output and a link to a Twemoji CDN. On the right side, there are navigation icons (Home, GitHub, Download, RAW), a 'FUND THIS PACKAGE' button, and sections for 'Installation' (apm install emoji@1.0.0), 'Repository' (https://github.com/abappm/abappm.git), 'ABAP Release' (>7.5.0), 'apm Version' (>=1), and 'Distribution' (File Count: 16, Size: 1.1 MB).



# Sidenote

All JavaScript Developers, Repeat After Me...

**apm ne npm**

**npm !== apm**



# The apm Registry

<https://registry.abappm.com>

Database for  
Package Metadata, Readmes, and Tarballs

API for apm Client

**Free to Browse,**  
Fee to Download & Publish





# The apm Registry

<https://registry.abapm.com>

Packages

balls



**Free to Browse,**  
Fee to Download & Publish



# The apm Registry

<https://registry.abappm.com>

Database for  
Package Metadata, Readmes, and Tarballs

API for apm Client

**Free to Browse,**  
Fee to Download & Publish



# The apm Client

Standalone and developer versions (like abapGit)

Runs in SAP GUI (like abapGit)

ABAP version 7.50 or higher  
(down-ports planned)

**Free** and open source



# Package List

The screenshot shows the 'apm Package List' interface. At the top, there are navigation icons for 'Init', 'Install', 'Publish', 'Uninstall', 'Settings', and a refresh icon. Below the navigation is a filter input field and two checked checkboxes: 'Only Favorites' and 'Detail'. A URL bar shows 'https://registry.abappm.com'. The main content is a table with the following columns: Package, Name, Version, and Description. The table lists 13 packages, with the 'apm' package highlighted in blue. At the bottom, there is a 'Sponsor us' link, the 'apm' logo, the version '1.0.0-beta - Developer Version - Win - IE', and a 'js: OK' status indicator.

Package	Name	Version	Description
★ \$ABAPCONF-2024	abapconf-2024	0.0.1	ABAPConf Demo
★ \$ABAPCONF	abapconf	1.2.3	abapconf
★ \$AJSON	ajson	1.10.0	Yet another json parser for ABAP
★ \$APM	apm	1.0.0-beta	A Package Manager for ABAP
★ \$EMOJI	emoji	1.1.0	Emoji for ABAP
★ \$MARKDOWN	markdown	1.0.0	Markdown for ABAP
★ \$PACKAGE-JSON	package-json	1.0.0	Package JSON for ABAP
★ \$PACOTE	pacote	1.0.0	Fetches package manifests and tarballs from the apm registry
★ \$PERSIST-APM	persist-apm	1.0.0	Key value store for apm
★ \$SEMVER-SAP	semver-sap	1.0.0	Mapping between SAP Releases and Semantic Versions (SAPVER)
★ \$SEMVER	semver	7.6.2	Semantic Version
★ \$TAP	tap	1.0.0	TAP for ABAP
★ \$STAR	tar	1.0.0	Tar for ABAP



# Version Management

Semantic Versioning of Packages

`"version": "1.2.4"`

Semantic Version Ranges for  
Specifying Dependencies

`"ajson": ">=1.10.0 >=2"`



# Dependencies

“dependencies”

Your package requires dependency in system namespace  
(**installed together**)

“devDependencies”

Your package requires dependency  
but **not** in test or production systems



# Dependencies

“peerDependencies”

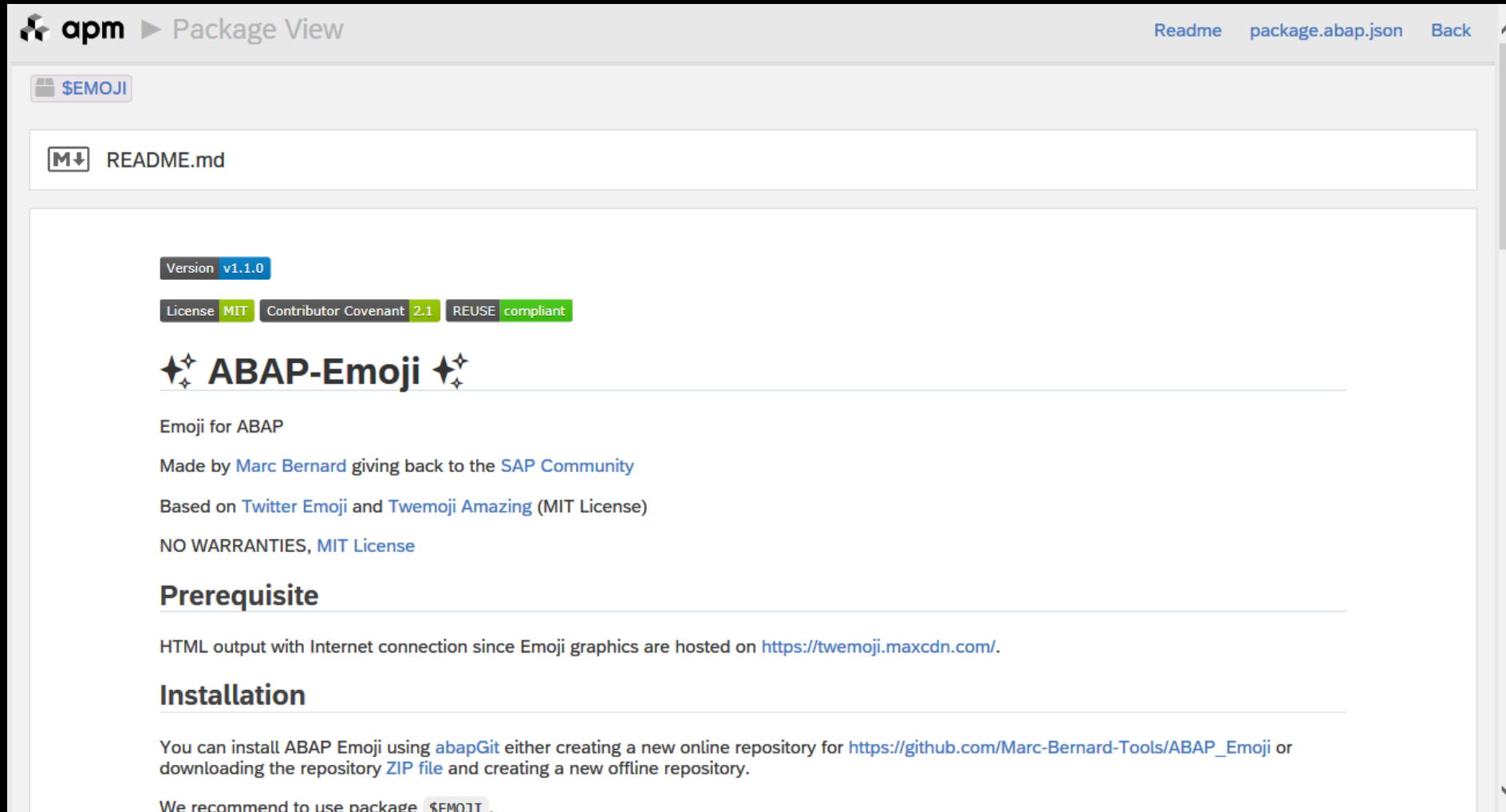
Your package requires dependency in system namespace  
(**installed separately**)

“bundleDependencies”

Dependency is included in your package  
(**imported and renamed**)



# Package View > Readme



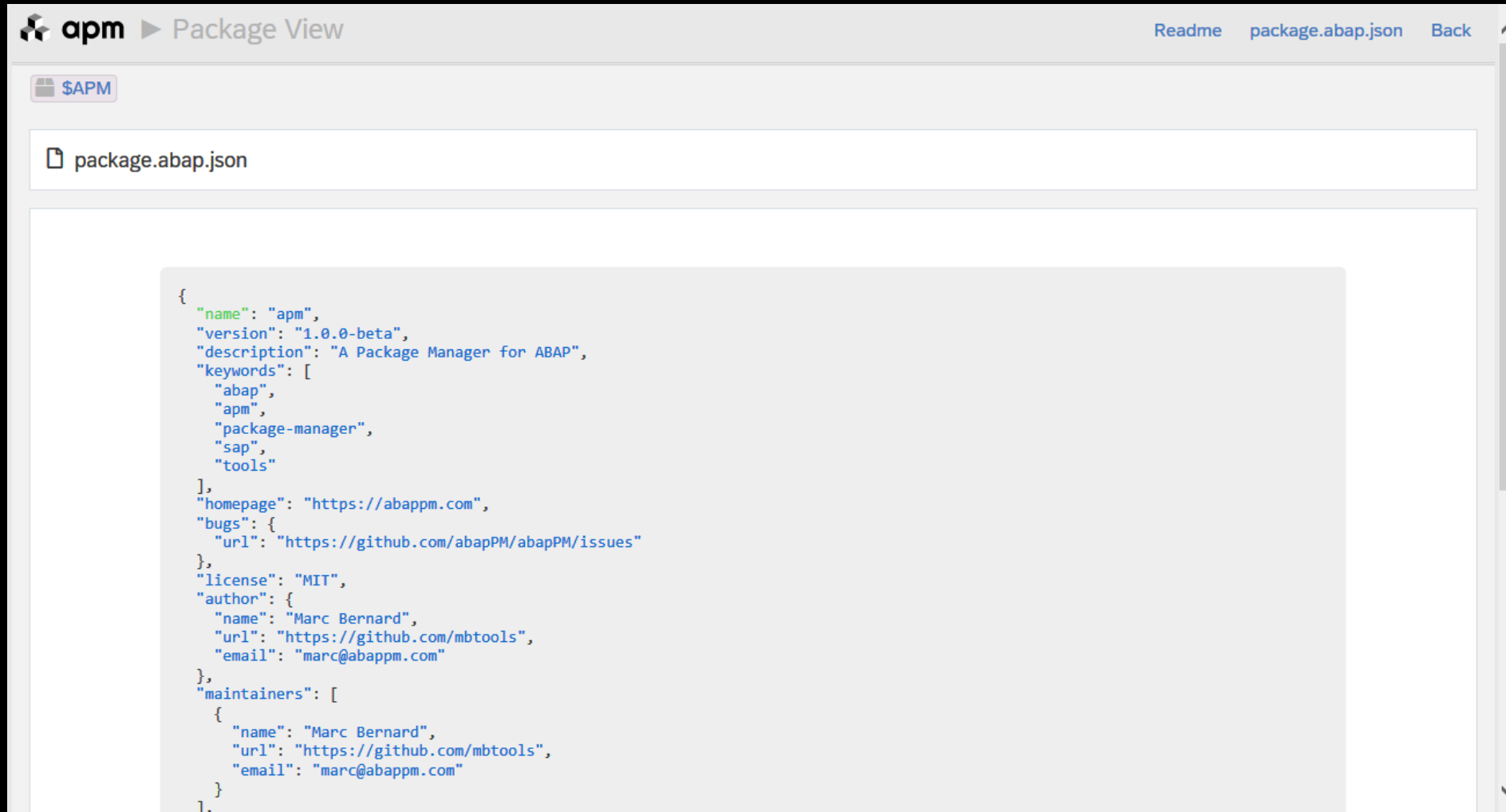
The screenshot shows the SAP APM Package View for the package `$EMOJI`. The breadcrumb navigation at the top indicates the path: `apm` > Package View > `package.abap.json` > Readme > Back. The package name `$EMOJI` is displayed in a blue box. Below it, the file `README.md` is selected and shown in a white box with a download icon. The README content includes:

- Version: `v1.1.0`
- License: `MIT`, Contributor Covenant: `2.1`, REUSE: `compliant`
- Section: **ABAP-Emoji**
- Description: Emoji for ABAP
- Author: Made by [Marc Bernard](#) giving back to the [SAP Community](#)
- Source: Based on [Twitter Emoji](#) and [Twemoji Amazing](#) (MIT License)
- Disclaimer: NO WARRANTIES, [MIT License](#)
- Section: **Prerequisite**
- Note: HTML output with Internet connection since Emoji graphics are hosted on <https://twemoji.maxcdn.com/>.
- Section: **Installation**
- Text: You can install ABAP Emoji using [abapGit](#) either creating a new online repository for [https://github.com/Marc-Bernard-Tools/ABAP\\_Emoji](https://github.com/Marc-Bernard-Tools/ABAP_Emoji) or downloading the repository [ZIP file](#) and creating a new offline repository.
- Text: We recommend to use package `$EMOJI`.





# Package View > Manifest




The screenshot shows the SAPM Package View Manifest page. The browser address bar displays 'apm Package View' with navigation links for 'Readme', 'package.abap.json', and 'Back'. Below the address bar, there is a breadcrumb trail showing '\$APM' and a file icon next to 'package.abap.json'. The main content area displays the JSON manifest file content, which includes package metadata such as name, version, description, keywords, homepage, bugs, license, author, and maintainers.

```
{
  "name": "apm",
  "version": "1.0.0-beta",
  "description": "A Package Manager for ABAP",
  "keywords": [
    "abap",
    "apm",
    "package-manager",
    "sap",
    "tools"
  ],
  "homepage": "https://abappm.com",
  "bugs": {
    "url": "https://github.com/abapPM/abapPM/issues"
  },
  "license": "MIT",
  "author": {
    "name": "Marc Bernard",
    "url": "https://github.com/mbtools",
    "email": "marc@abappm.com"
  },
  "maintainers": [
    {
      "name": "Marc Bernard",
      "url": "https://github.com/mbtools",
      "email": "marc@abappm.com"
    }
  ],
}
```



# Init Package

 **apm** ▶ Init Package

Package \*  
\$abapconf-2024 ...


Name \*  
abapconf-2024


Version \*  
0.0.1

Description  
ABAPConf Demo

Labels (comma-separated, allowed chars: "-\_., a-zA-Z0-9")  
...

Private Package (will not become public)


 [Init Package](#) [Create Package](#) [Back](#)

 **apm** js: OK

[Sponsor us](#) 1.0.0-beta - Developer Version - Win - IE



# Install Package


 **apm** ▶ Install Package


Package \*  
 ...

Name \*

Version \*

Install Only Dependencies


 [Install Package](#) [Create Package](#) [Back](#)

[♥ Sponsor us](#)  **apm** js: OK

1.0.0-beta - Developer Version - Win - IE




# Publish Package

 **apm** ▶ Publish Package

Package \*

Name

Version

 Publish Package Back

 [Sponsor us](#)

 **apm**

1.0.0-beta - Developer Version - Win  
- IE

js: OK





# Call to Action

Sign Up!

<https://abappm.com/>

# Incentives

- **ABAP Tools for abapGit (available now)**
- abapGit Exit Factory
- abaplint Extension for abapGit v2
- Markdown Extension for abapGit
- Last Change Extension for abapGit
- File Viewer Extension for abapGit
- Full-text Search Extension for abapGit
- Pretty Extension for abapGit
- Serializer Cache for abapGit



# Incentives

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- Full-text Search Extension for abapGit
- Pretty Extension for abapGit
- Serializer Cache for abapGit

1 gift for every  
100 apm MAU



# More from me...

ABAPConf 2021:

[abapGit for Beginners](#) [[recording](#)]

ABAPConf 2022:

[4 abapGit Use Cases That Will Blow Your Mind](#) [[recording](#)]

ABAPConf 2024:

[Addressing the Future of ABAP:](#)

[The Power of Open Source](#) [[recording](#)]

SAP “The Open-Source Way” Podcast: [abapGit](#)





# Thank You!

## Marc Bernard

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