



**Taking your development to the next level
with open-source ABAP**

Marc Bernard - November 2024

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Marc Bernard



Marc Bernard



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

The screenshot shows the Marc Bernard Tools application window. It has a menu bar with 'File', 'Selections', 'Edit', 'Goto', 'System', 'Help'. A toolbar below includes icons for file operations like Open, Save, Print, and Help. The main area is titled 'Marc Bernard Tools' and contains a list of tools:

- MBT Command Field**: The world's first enhancement for the SAP GUI command field.
- MBT Icon Browser**: Query, display, and download icons available in SAP GUI.
- MBT Listcube**: Variants for transaction LISTCUBE: simple, powerful, free!
- MBT Logical Object Lister**: Display the metadata of SAP BW, SAP BPC, or SAP BW/4HANA object models.
- MBT Object Duplicator**: The fastest way to multiply your BW configuration.
- MBT System Monitor**: An enhancement to display details of BW processes in system monitors.



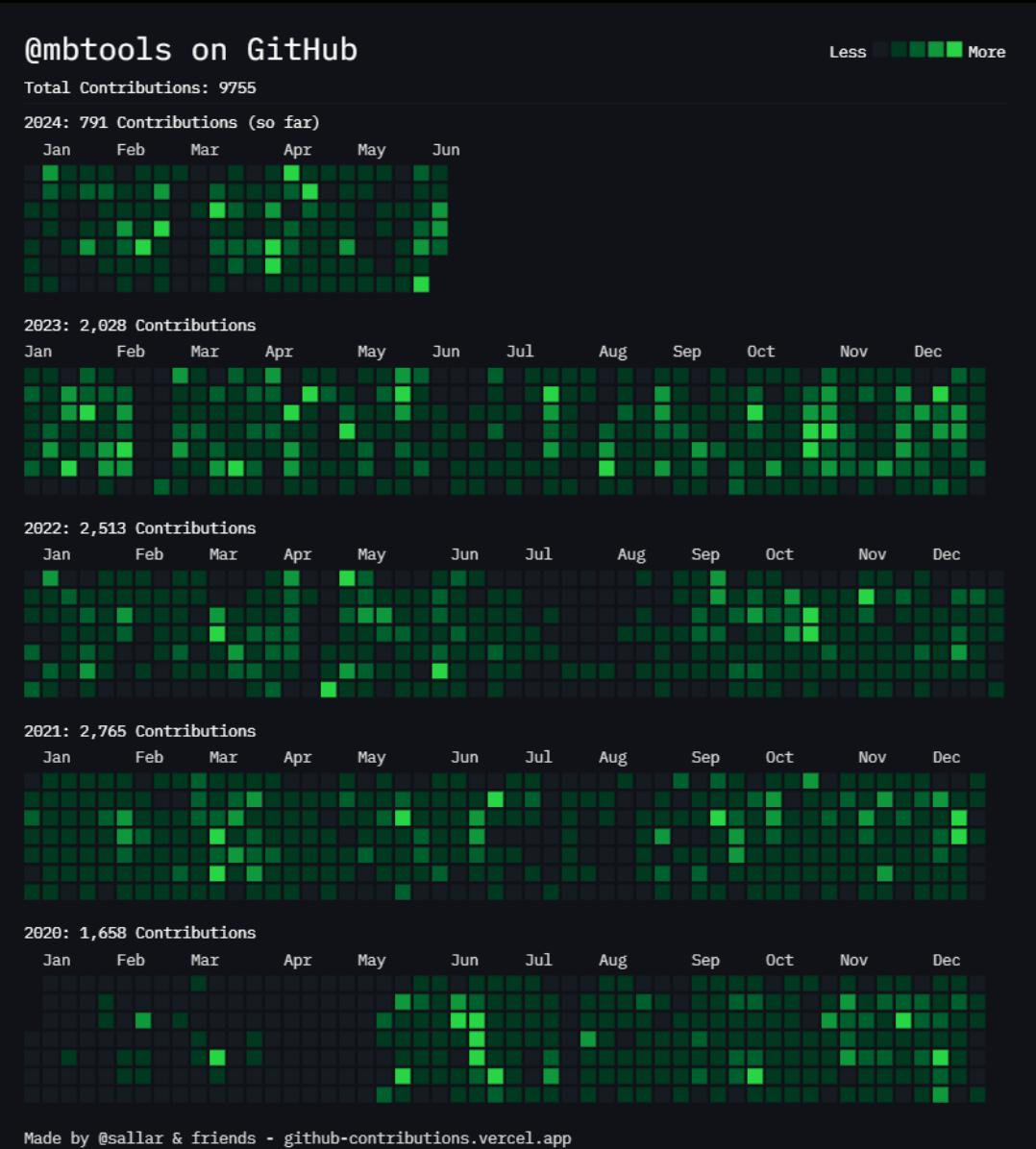
The screenshot shows the apm registry interface. The title is 'apm > Package List'. It lists various packages with their names, versions, and descriptions:

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
SPACOTC	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

Marc Bernard Tools

Top Contributor to [abapGit](#)

Creator of [apm](#)

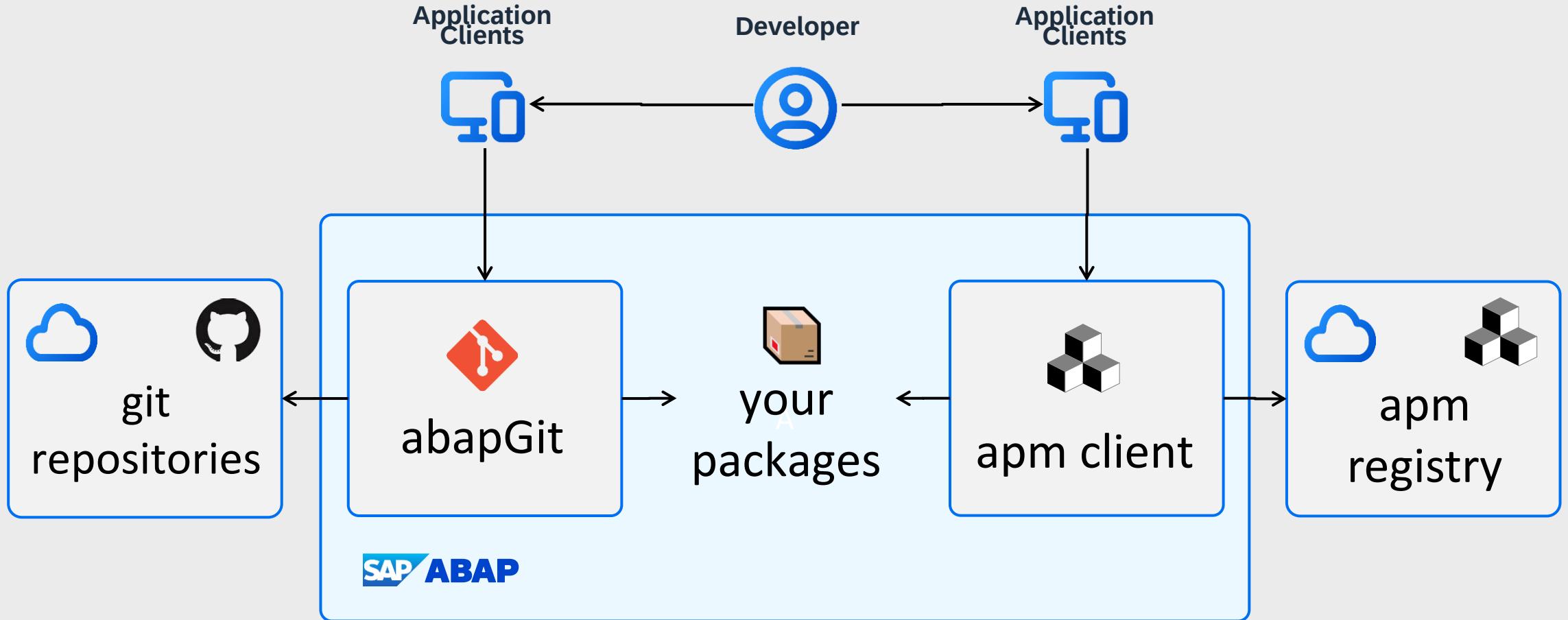


My Open-Source Contributions

- [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](#) - Improving the UI theme, docs, and more
- [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](#))



Overview Diagram





abapGit



What is git ?

High-quality version control system

Installed locally (rather than in the cloud)

Specially designed for text files

Sophisticated branching model

Is **free** and open source



What is GitHub ?

Hosting service for Git repositories

Exclusively cloud-based

Intuitive, graphically represented user interface

Built-in control and task-management tools

For-profit but offers a **free** tier



What is abapGit ?

Git client for ABAP (started in 2014 by Lars Hvam)

Works with GitHub, GitLab, Assembla, Bitbucket, abapGit-Server, AWS, TFS, Azure DevOps and more

ABAP version 7.02 or higher

It's **free** and open source



Demo: abapGit on GitHub



Welcome

abapGit is an open source git client for ABAP, maintained and built by the community.

Documentation



GitHub



Latest build



Eclipse plugin

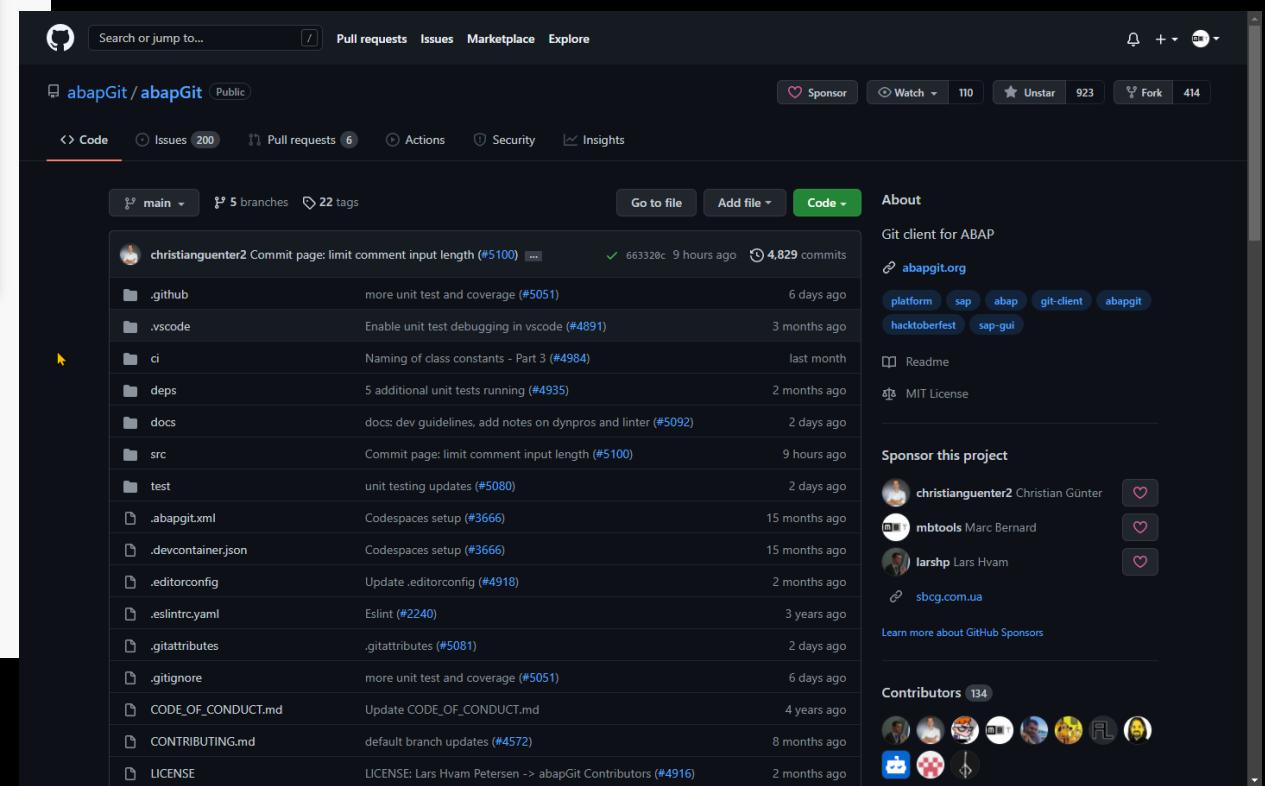


.dotabap.org



<https://abapgit.org>

<https://github.com/abapGit/abapGit>



The screenshot shows the GitHub repository page for 'abapGit / abapGit'. The repository has 200 issues, 6 pull requests, and 414 forks. The code tab is selected, showing a list of commits from various contributors. The sidebar includes links for 'About', 'Sponsor this project', and 'Contributors'.

About
Git client for ABAP
[abapgit.org](#)
platform sap abap git-client abapgit
hacktoberfest sap-gui

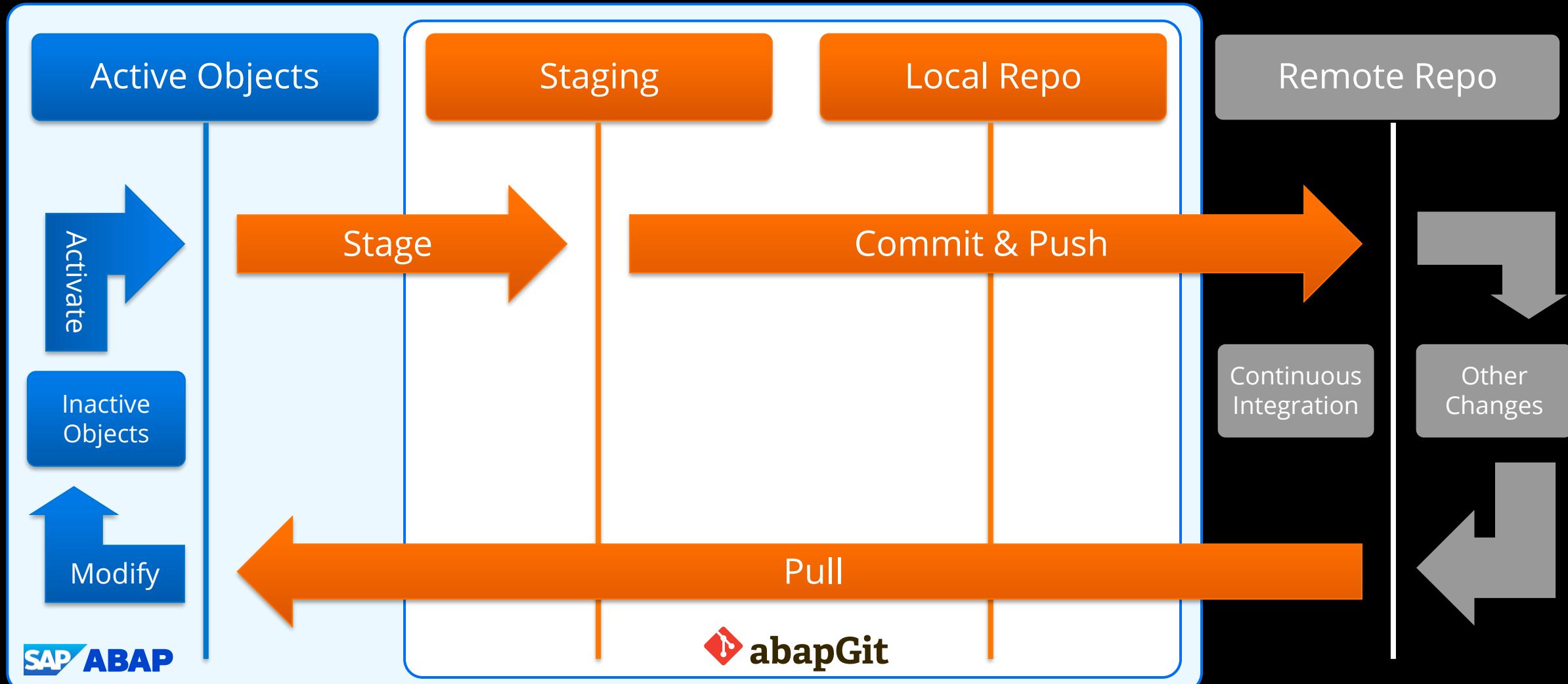
Sponsor this project
christianguentner2 Christian Günter
mbtools Marc Bernard
larshp Lars Hvam
[sbcg.com.ua](#)

Contributors 134

christianguentner2 Christian Günter
mbtools Marc Bernard
larshp Lars Hvam
sbcg.com.ua



Continuous Development



ABAP Open Source



[Find a project](#)

Sort ▾

Filter ▾

<https://dotabap.org>[+ Add Project](#)[Fork Me](#)[BestOfUI5](#)

ABAP Open Source Projects

Projects: 294

Total: 1.9m

[Cron](#) passing

gwtools *created by attilaberencsi 3 years ago*
Gateway Tools
MIT License

Git <https://github.com/attil>

★ 18 </> 966 2024/11/10



ValueObjects *created by rob786541 23 days ago*
ABAP value objects
MIT License

Git <https://github.com/rob>

★ 0 </> 2.4k 2024/11/10



abap2UI5 *created by abap2UI5 2 years ago*
Developing UI5 Apps
Purely in ABAP
MIT License

Git <https://github.com/aba>

★ 298 </> 35k 2024/11/10



ZAP *created by abeljohny 7 years ago*
Tiny DSL in ABAP for rapid report prototyping
GNU General Public License v2.0

Git <https://github.com/abe>

★ 2 </> 687 2024/11/09



abap-dev-utilities *created by jrodriguez-rc 4 years ago*
ABAP Development Utilities
MIT License

Git <https://github.com/jroc>

★ 70 </> 10.3k 2024/11/08



abap-odata-test *created by bluefunda 8 days ago*
ABAP OData Test Tools
MIT License

Git <https://github.com/blue>

★ 1 </> 1.2k 2024/11/07



Reasons Developers ❤️ Open Source

Collaboration & Community

Flexibility & Customization

Learning & Development

Innovation

Cost

Quality



What's Missing



Centralized Source of Packages

Version Management

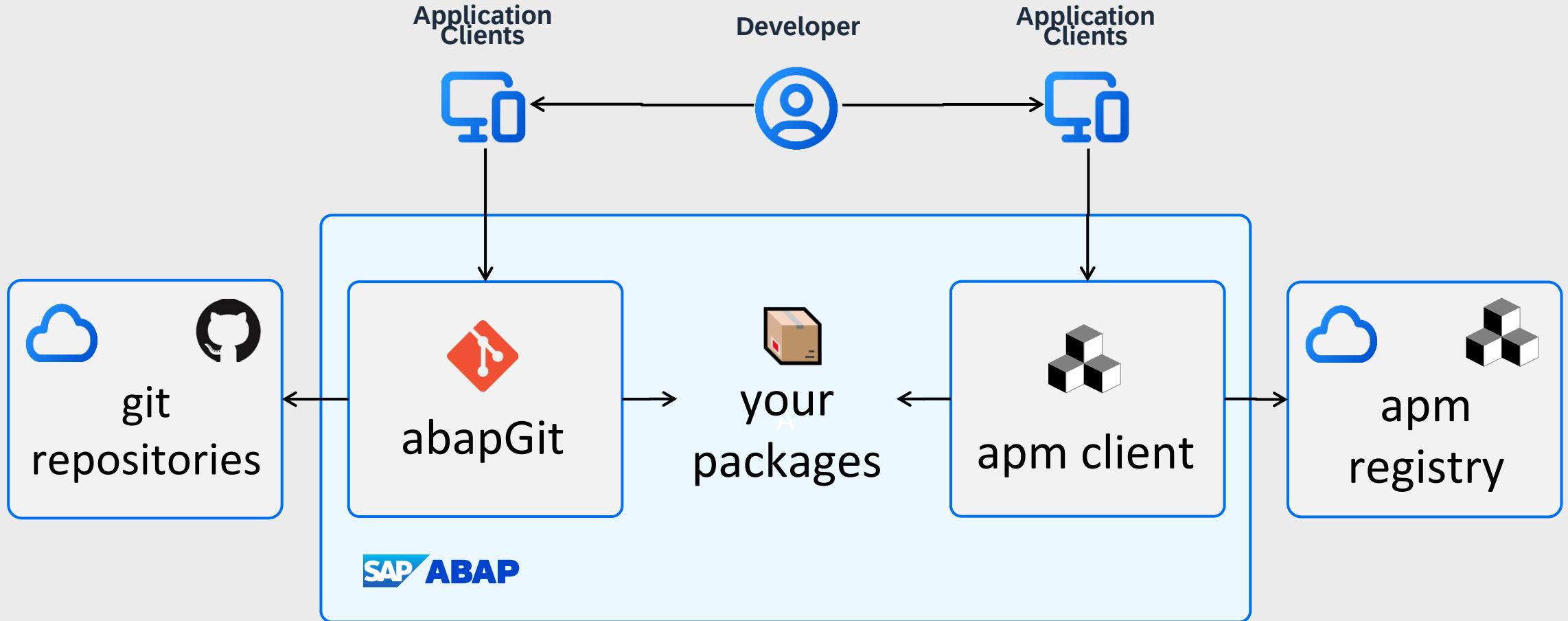
Dependency Management

Ease of Use

Collaboration & Sharing

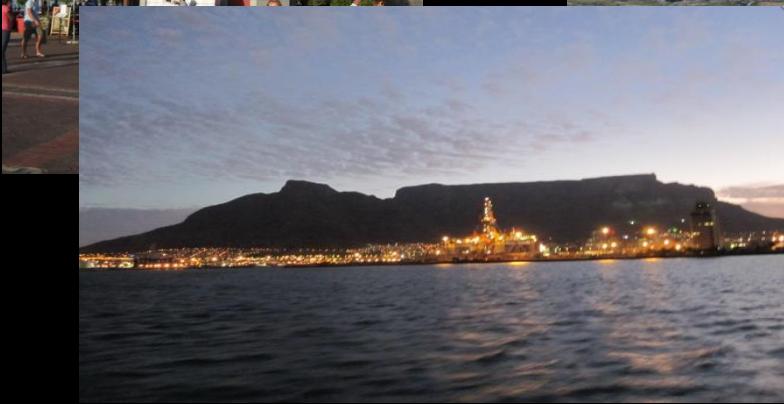
Simplified Deployment

Overview Diagram





apm



What is apm?

Package Manager for ABAP 

apm Website 

apm Registry 

The apm Website

<https://abappm.com>

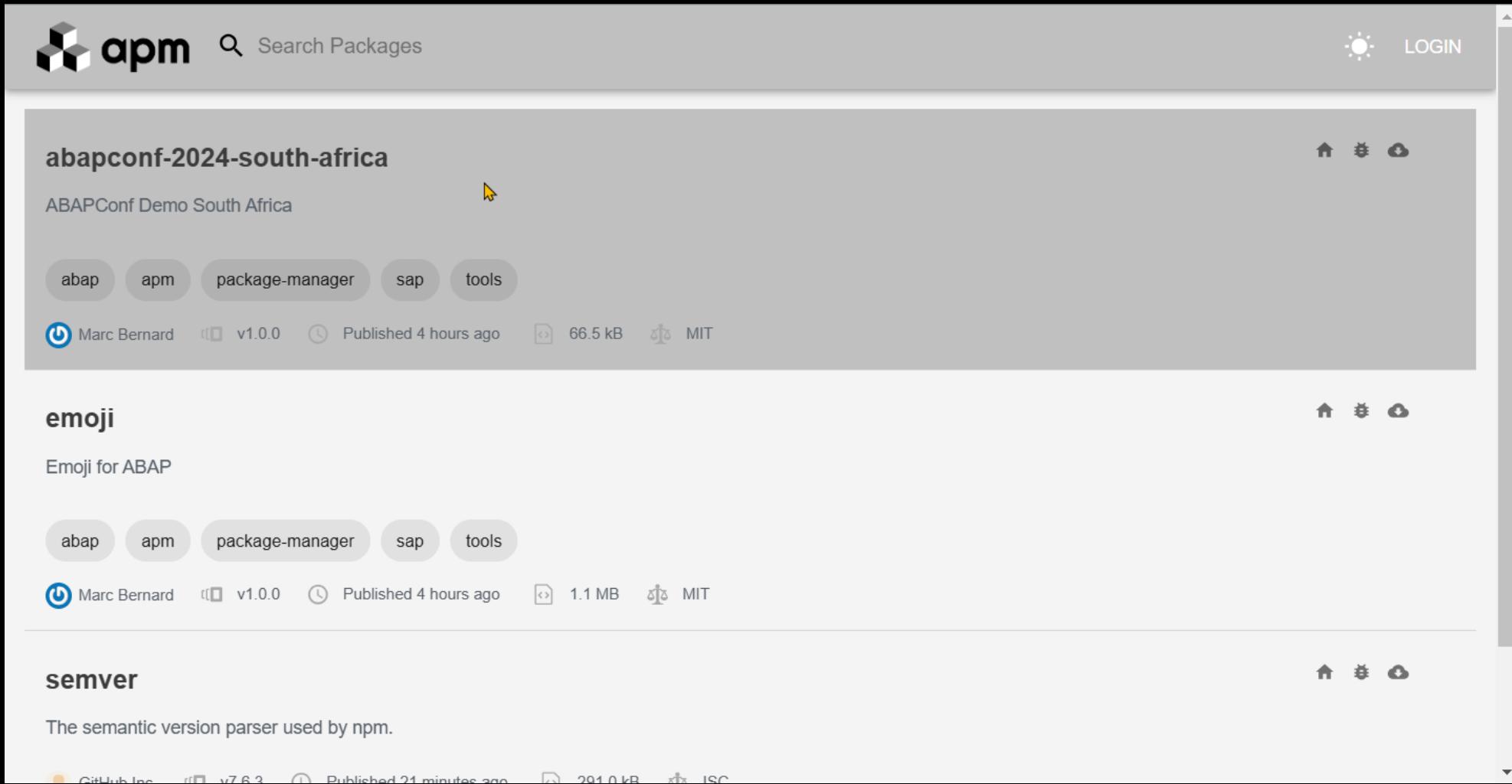
Entry to the
World of Package Management for ABAP

Guides & Documentation

Account Management
(8€/user/month)



The apm Website



The screenshot displays the apm website interface with three package cards:

- abapconf-2024-south-africa**
ABAPConf Demo South Africa
Marc Bernard | v1.0.0 | Published 4 hours ago | 66.5 kB | MIT
- emoji**
Emoji for ABAP
Marc Bernard | v1.0.0 | Published 4 hours ago | 1.1 MB | MIT
- semver**
The semantic version parser used by npm.
GitHub Inc. | v7.6.3 | Published 21 minutes ago | 201.0 kB | ISC



The apm Website

apm  Search Packages  LOGIN

[README](#) [DEPENDENCIES](#) [VERSIONS](#)

Version v1.1.0

License MIT Contributor Covenant 2.1 REUSE compliant

⭐ ABAP-Emoji ⭐

Emoji for ABAP

Made by [Marc Bernard Tools](#) giving back to the [SAP Community](#)

NO WARRANTIES, [MIT License](#)

Based on [Twitter Emoji](#) and [Twemoji Amazing](#) (MIT License)

Prerequisite

HTML output with Internet connection since Emoji graphics are hosted on <https://twemoji.maxcdn.com/>

emoji
Emoji for ABAP
Latest v1.0.0 - Published 4 hours ago

 FUND THIS PACKAGE

Installation 

 apm install emoji@1.0.0 

Repository  <https://github.com/abappm/abappm.git> 

ABAP Release  >7.5.0

apm Version  >=1

Distribution

File Count: 16 Size: 1.1 MB



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 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

apm ► Package List

Init Install Publish Uninstall Settings C X ?

Filter: ? Only Favorites Detail https://registry.abappm.com

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 npm 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

Sponsor us js: OK

1.0.0-beta - Developer Version - Win - IE



Version Management

Semantic Versioning of Packages

`“version”: “1.2.4”`

Semantic Version Ranges for
Specifying Dependencies

`“asjon”: “>=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 a web-based package management interface for SAP ABAP. At the top, there's a navigation bar with the 'apm' logo, 'Package View', and links for 'Readme', 'package.abap.json', and 'Back'. Below the navigation, the package name '\$EMOJI' is displayed, along with a file icon and a download link for 'README.md'. A large text area contains the contents of the README file.

Version v1.1.0

License MIT **Contributor Covenant 2.1** **REUSE compliant**

✨ ABAP-Emoji ✨

Emoji for ABAP

Made by [Marc Bernard](#) giving back to the [SAP Community](#)

Based on [Twitter Emoji](#) and [Twemoji Amazing](#) (MIT License)

NO WARRANTIES, [MIT License](#)

Prerequisite

HTML output with Internet connection since Emoji graphics are hosted on <https://twemoji.maxcdn.com/>.

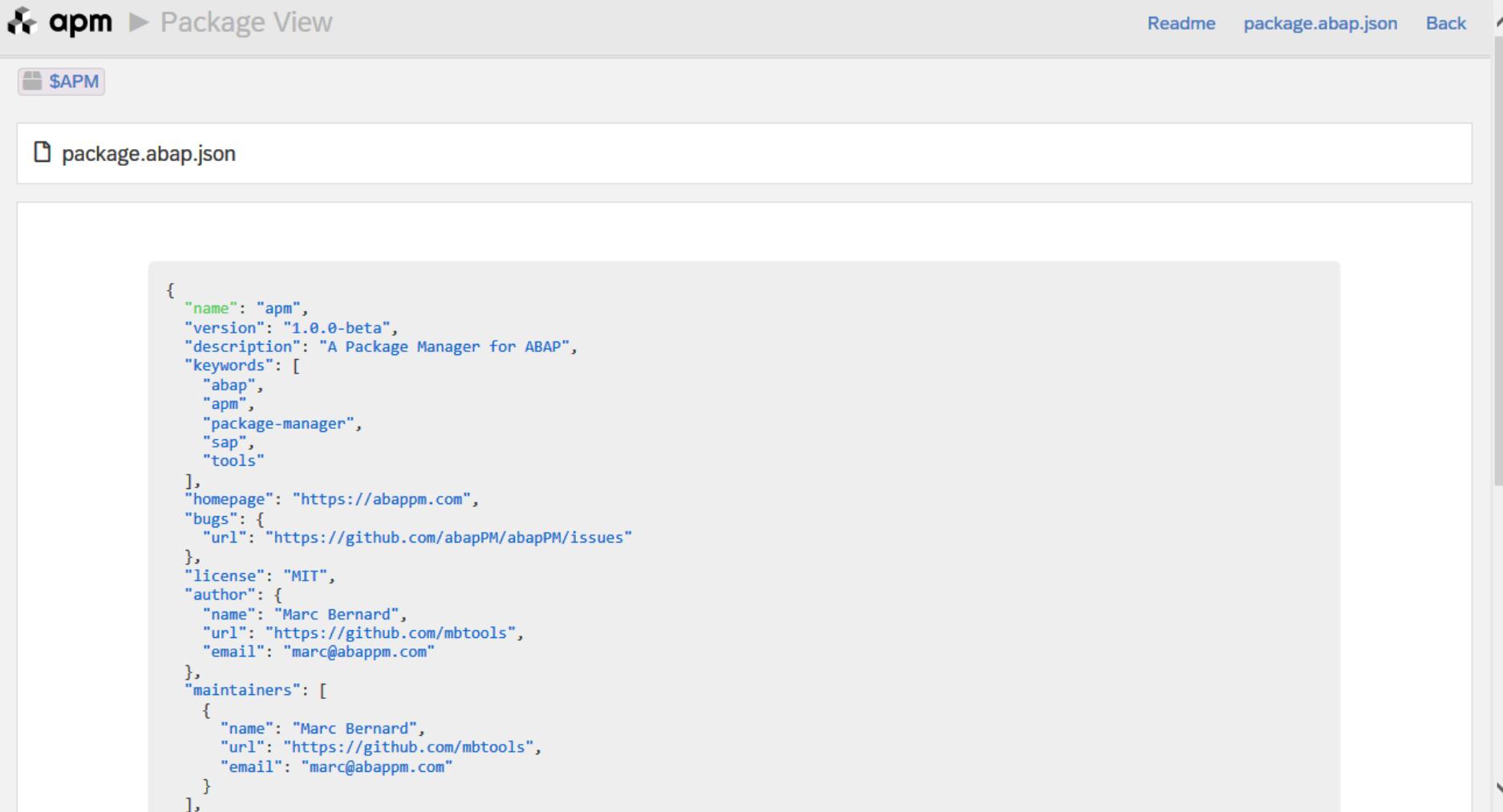
Installation

You can install ABAP Emoji using [abapGit](#) either creating a new online repository for https://github.com/Marc-Bernard-Tools/ABAP_Emoji or downloading the repository [ZIP file](#) and creating a new offline repository.

We recommend to use package `$EMOJI`.



Package View > Manifest



The screenshot shows a web-based interface for viewing a package's manifest. At the top, there's a header with the APM logo, the title "Package View", and navigation links for "Readme", "package.abap.json", and "Back". Below the header, the path "\$APM" is displayed. The main content area is titled "package.abap.json" and contains the following JSON code:

```
{  
  "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 *

...

Name *



Install Package

apm ► Install Package

Package *

 ...

Name *



Publish Package

 apm ► Publish Package

Package *

Name

Version

 Sponsor us  1.0.0-beta - Developer Version - Win - IE js: OK





Call to Action

Give it a try!

<https://abapgit.org/>



Call to Action

Sign Up!

<https://abappm.com/>

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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marc@abappm.com

<https://github.com/marcfbe>

<https://linkedin.com/in/marcfbe>





THE FUTURE IS IN OUR HANDS

Vision

A world where young people have opportunities to create sustainable livelihoods.

Mission

We use cutting-edge educational approaches to create pathways for young people from under-resourced communities to pull themselves and each other into sustainable livelihoods.

<https://ikamvayouth.org/>

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