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Annual Review for rez

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Project Info

Brief Description:

A lightweight cross-platform package manager written in Python

Build and release packages to a central repository,

then consume them in standalone configured environments.

TSC Chairperson:

Allan Johns <nerdvegas@gmail.com>

Project TAC Delegate:

Stephen Mackenzie <maxnbk@gmail.com>

TSC Members and Affiliations:

Allan Johns (NVIDIA)

Stephen Mackenzie (NVIDIA)

Jean-Christophe Morin (Signiant)

Thorsten Kaufmann (Accenture Song Content)

Brendan Abel (Walt Disney Imagineering)

Contributed by:

Allan Johns

Key Links:

Github: *github.com/AcademySoftwareFoundation/rez*

Website:

rez-project.io (redirects to github)

Docs: *github.com/AcademySoftwareFoundation/rez/wiki*

Artwork:

artwork.aswf.io/projects/rez/

Mailing lists:

- lists.aswf.io/g/rez-discussion
- groups.google.com/g/rez-config (deprecated)

OpenSSF Best Practice Badge URL: WIP

Project Origins

- V1 implementation at Dr.D Studios circa 2011
  - Author previously working at MPC London, where version management was increasingly problematic
  - Both studios' systems tightly coupled show configuration with package versioning, and were problematic
  - Rez (drd-config at the time) sought to address these issues
  - Python solver, everything else bash
  - Primarily used to manage C++ packages
  - Open sourced circa 2013 when Dr.D Studios was closed down

- V2 implementation at Method Studios, LA, circa 2014
  - Much more extensible - pluggable package repos, build systems, shell languages
  - Cross platform, monitoring
  - Bash requirement removed - agnostic package commands language introduced
  - Used to manage both python and C++ packages
  - Animal Logic one of the first studios to adopt outside of Method

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Incubation Progress (summary)

[x] Technical Charter Approval

[x] Legal

[x] Governance

[x] LICENSE

[x] CODEOWNERS

[x] README

[x]* License scan

[x] Defined Architecture & Features

[ ] Contributing

[ ] Code of Conduct

[ ] Release

[ ] Support

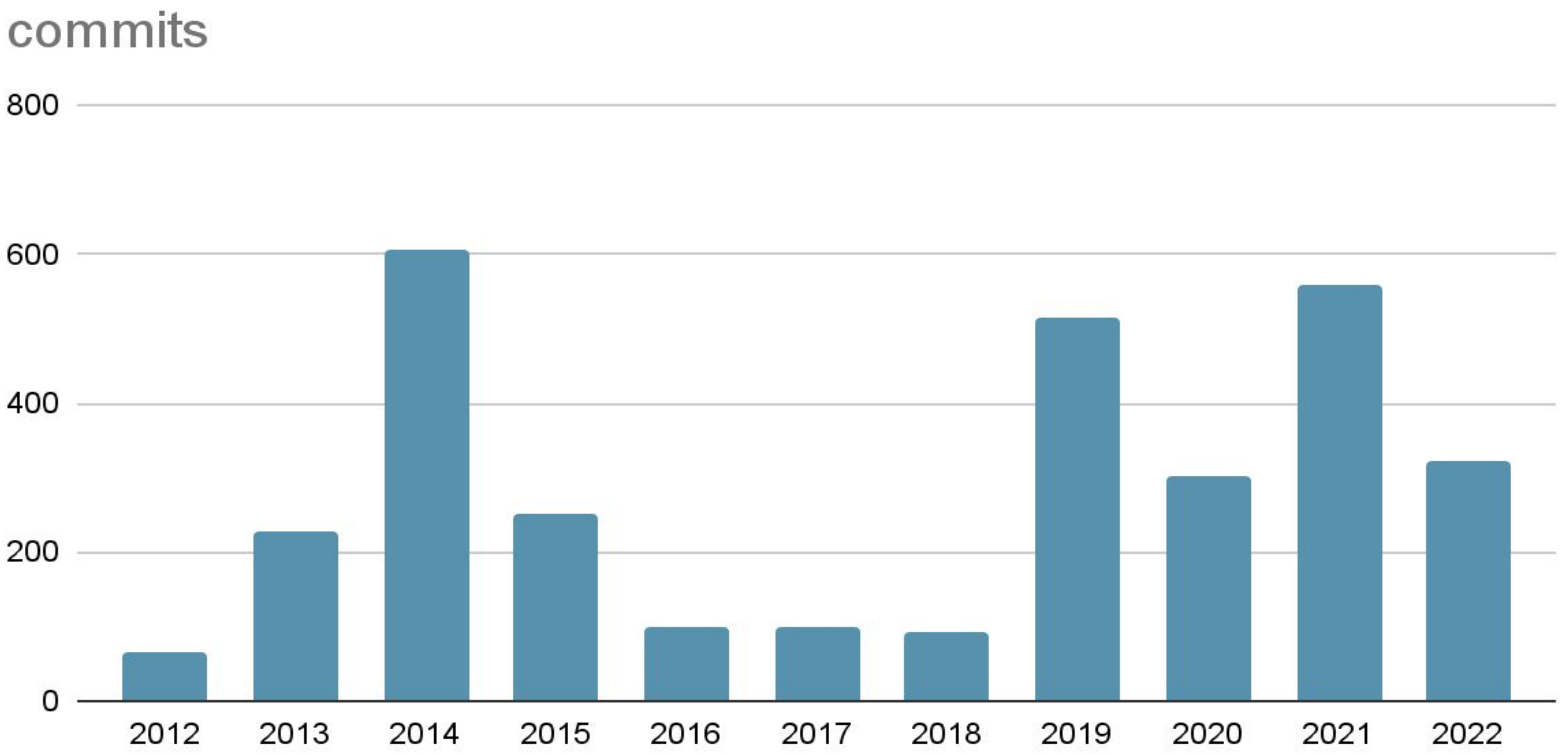
[ ] CII Badge

[ ] Defined Mission & Scope

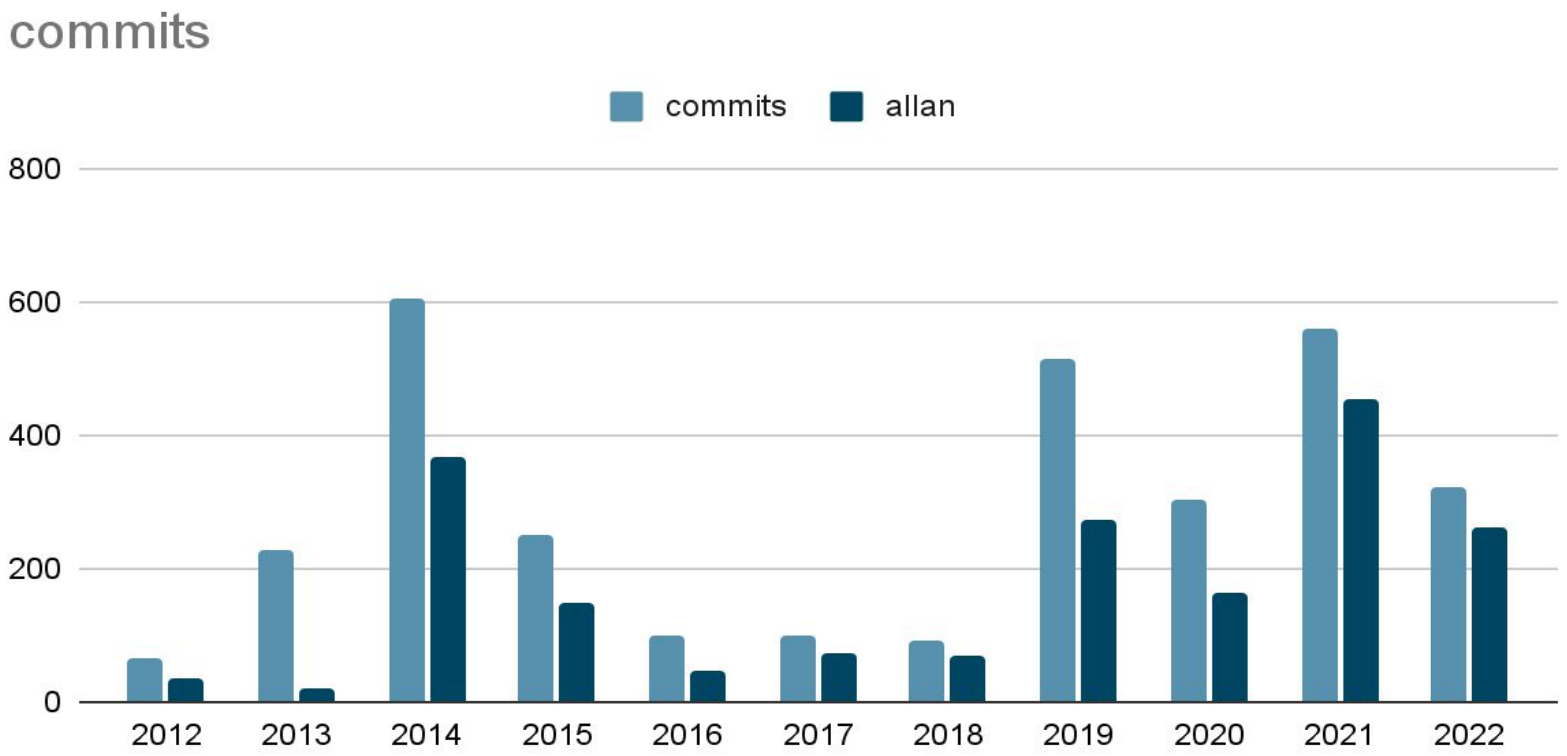
[ ]* Roadmap

[ ] Growth Assessment

Historical rez commits



Historical rez commits (hmm)



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Organizations using rez

?*

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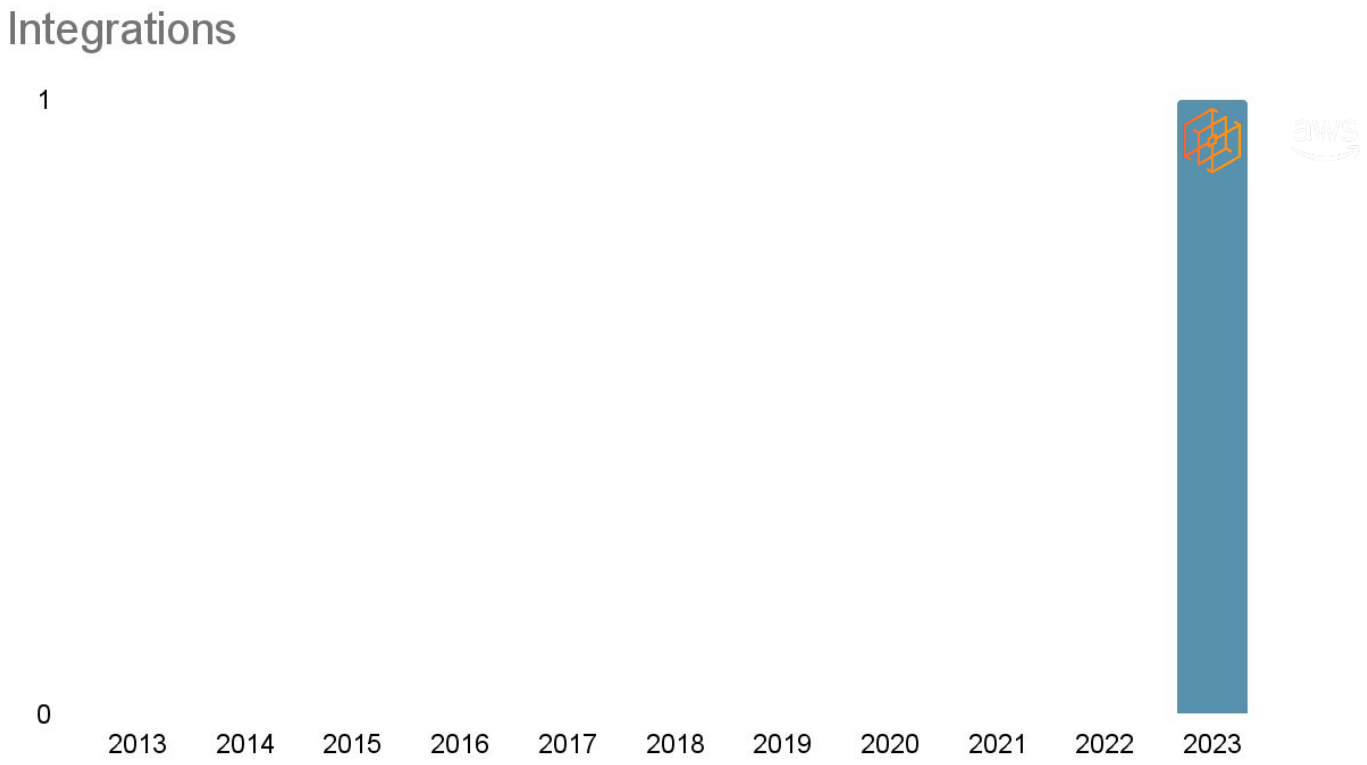
Product Integrations over time



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(Actually)

packaged

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Project Challenges vs Positives

1. Difficulties blocking contribution
   a. Documentation
   b. Niche domain
   c. Testing / debugging / logging
2. User support
3. Top project requests
4. Dependence on Allan
5. Attracting Long-term contributors
6. Still early days of our ASWF process
7. Very little company support*
8. Lull in activity*

1. Community engagement
2. Successful companies using
3. Flexibility

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Community Engagement

Analytics

Overview | Channels | Members

Data as of 02/26/2023, last updated 3 days ago

46 channels Export CSV Edit columns Feb 7, 2022 - Feb 26 Filter by channel name

Name	Created	Total membership	Messages posted	Members who posted	Members who viewed
# rez	2022-02-07	349	4,304	107	303
# opentimelineio	2019-08-26	595	2,740	92	402
# materialx	2021-05-25	420	2,161	110	372
# general	2019-06-05	2,921	2,144	174	1,910
# wg-usd	2020-05-13	688	1,556	120	541

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Top Requested Features

1. “Provides”
2. Better Windows shell support
3. Better rez-pip
4. Cloud package repositories
5. Caching-oriented
6. Robust starter rez recipe set

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Developments

1. Windows Shell Pathing PR
2. S3 / MongoDB PR + proposal being written
3. Early days rez-pip new prototype

Conclusion / Q & A

Thank you for your ongoing support!