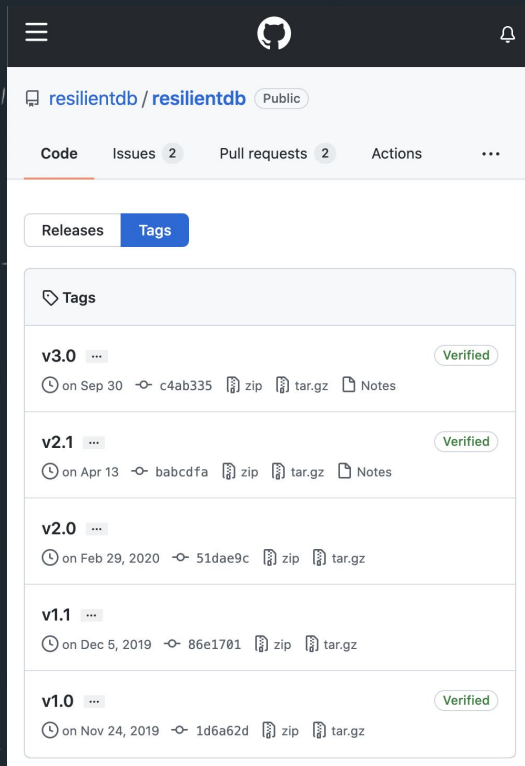


# Tag Immutability

Guaranteeing immutability of version control system  
tags using blockchain

Group 4: Anusha Kulkarni, Ashwitha Kassetty, Parichaya Chatterji, Preethi  
Muruganandam, Vasudha Jha

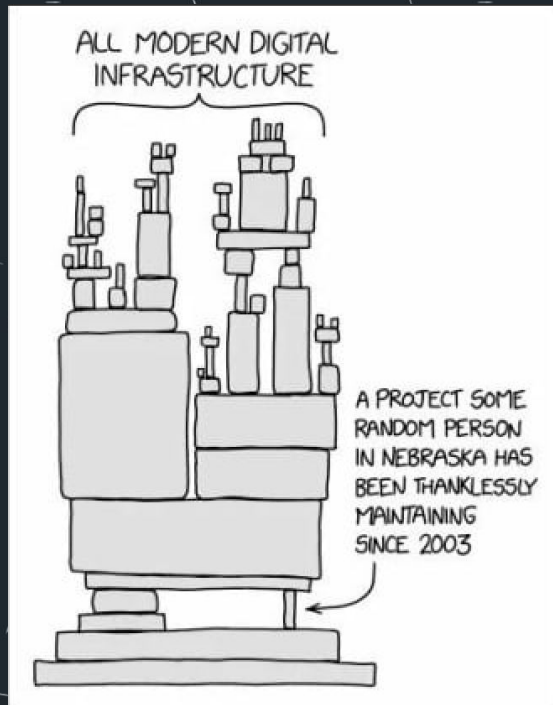
# What are tags?



The screenshot shows the GitHub interface for the `resilientdb/resilientdb` repository. The `Tags` tab is selected, displaying a list of five tagged versions: `v3.0`, `v2.1`, `v2.0`, `v1.1`, and `v1.0`. Each tag entry includes the version number, a commit hash, and download links for `zip` and `tar.gz` files. The `v3.0`, `v2.1`, and `v1.0` tags are marked as "Verified".

Tag	Commit Hash	Download Links	Verified
<code>v3.0</code>	<code>c4ab335</code>	<code>zip</code> , <code>tar.gz</code> , <code>Notes</code>	Yes
<code>v2.1</code>	<code>babcdfa</code>	<code>zip</code> , <code>tar.gz</code> , <code>Notes</code>	Yes
<code>v2.0</code>	<code>51dae9c</code>	<code>zip</code> , <code>tar.gz</code>	No
<code>v1.1</code>	<code>86e1701</code>	<code>zip</code> , <code>tar.gz</code>	No
<code>v1.0</code>	<code>1d6a62d</code>	<code>zip</code> , <code>tar.gz</code>	Yes

# Why make tags immutable?

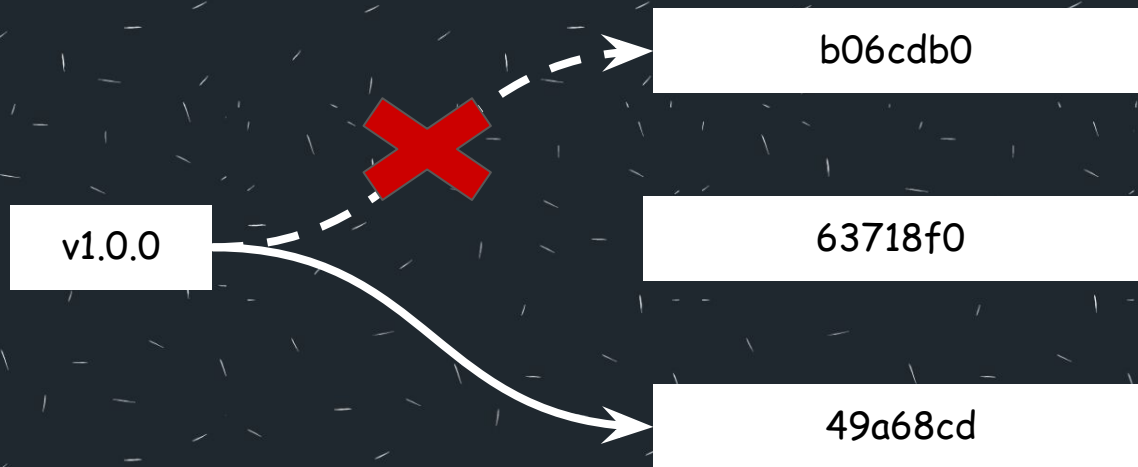


<https://xkcd.com/2347>

# Why make tags immutable?



# Why make tags immutable?



# Why make tags immutable?



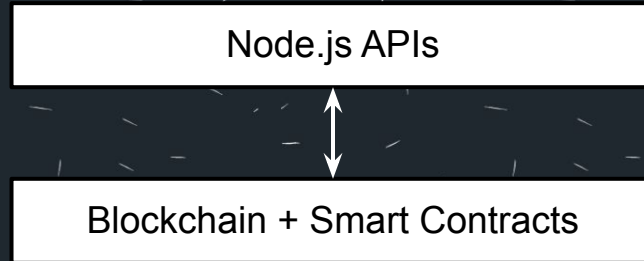
# Our Solution

# Our Solution

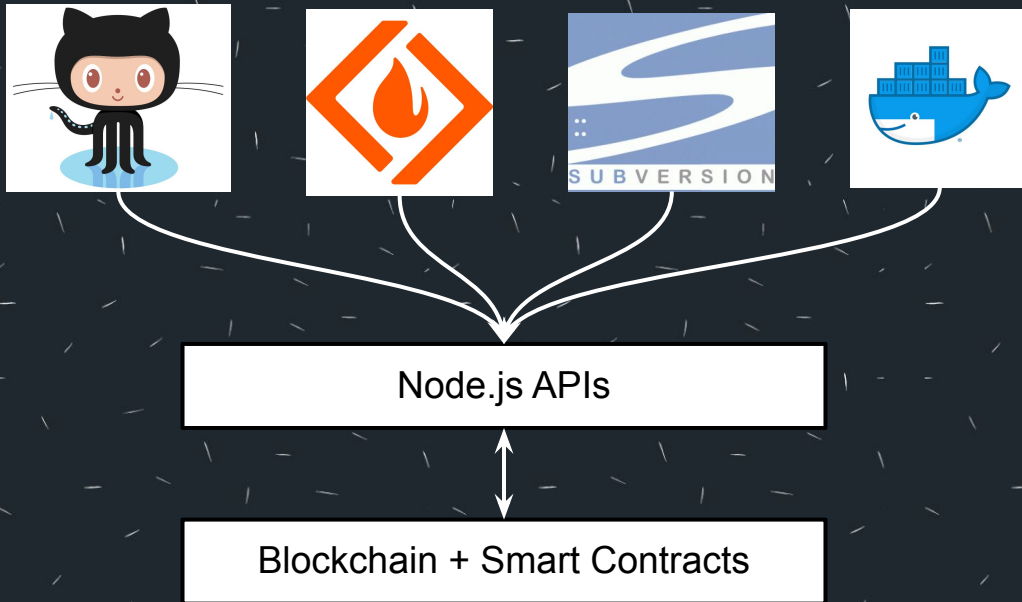
Blockchain + Smart Contracts



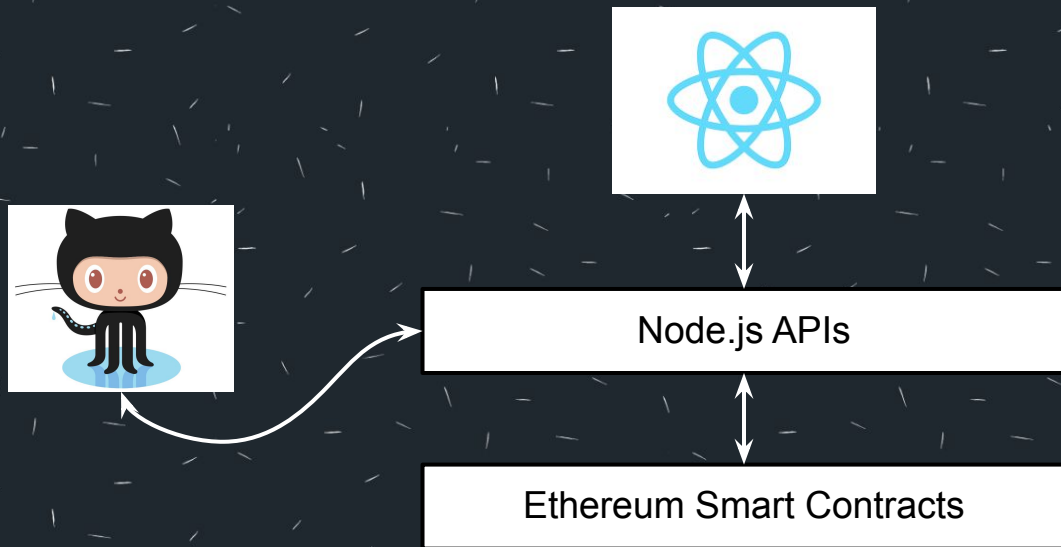
# Our Solution



# Our Solution



# Our Solution



Demo

Q&A

# Links

- Documentation: <https://github.com/Immutable-Tag/docs>
- Get the code: <https://github.com/Immutable-Tag>
- This presentation:

[https://github.com/Immutable-Tag/docs/blob/main/Tag\\_Immutability.pdf](https://github.com/Immutable-Tag/docs/blob/main/Tag_Immutability.pdf)

Thank You!