

- Apache Zeppelin 0.7.0

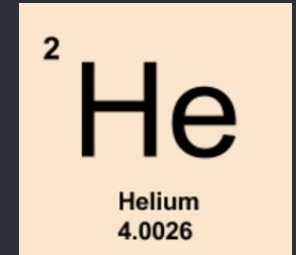
Part2. Helium



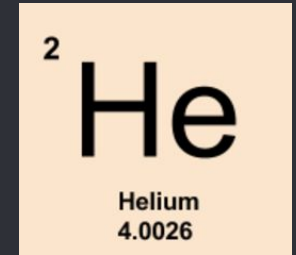
Ahyoung Ryu

A software engineer @[ZEPL](#)

A Committer of [Apache Zeppelin](#)



Helium?



Helium?

Google에 “Apache Zeppelin Helium” 을
검색해보면..



Makes Zeppelin fly!



Platform for data analytics application that makes visualization pluggable and more.

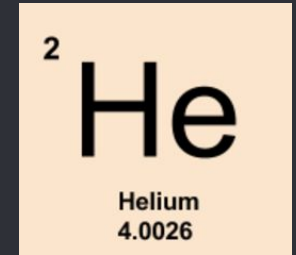
Proposal

<https://cwiki.apache.org/confluence/display/ZEPPELIN/Helium+proposal>

Umbrella issue

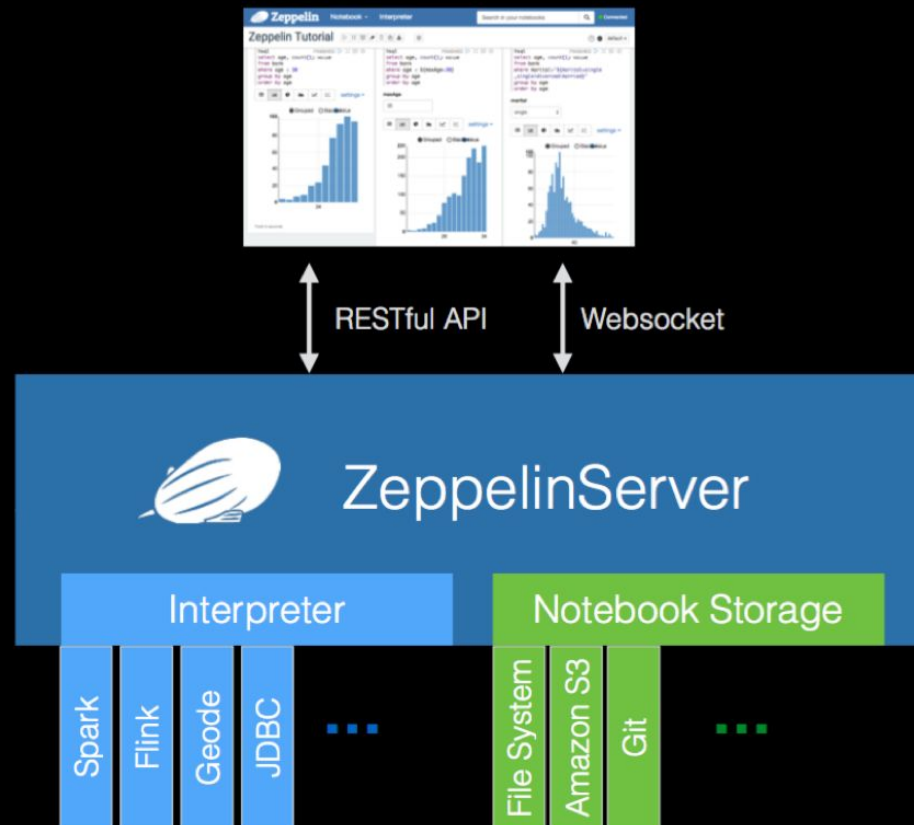
<http://issues.apache.org/jira/browse/ZEPPELIN-533>

<https://www.slideshare.net/HadoopSummit/apache-zeppelin-helium-and-beyond>

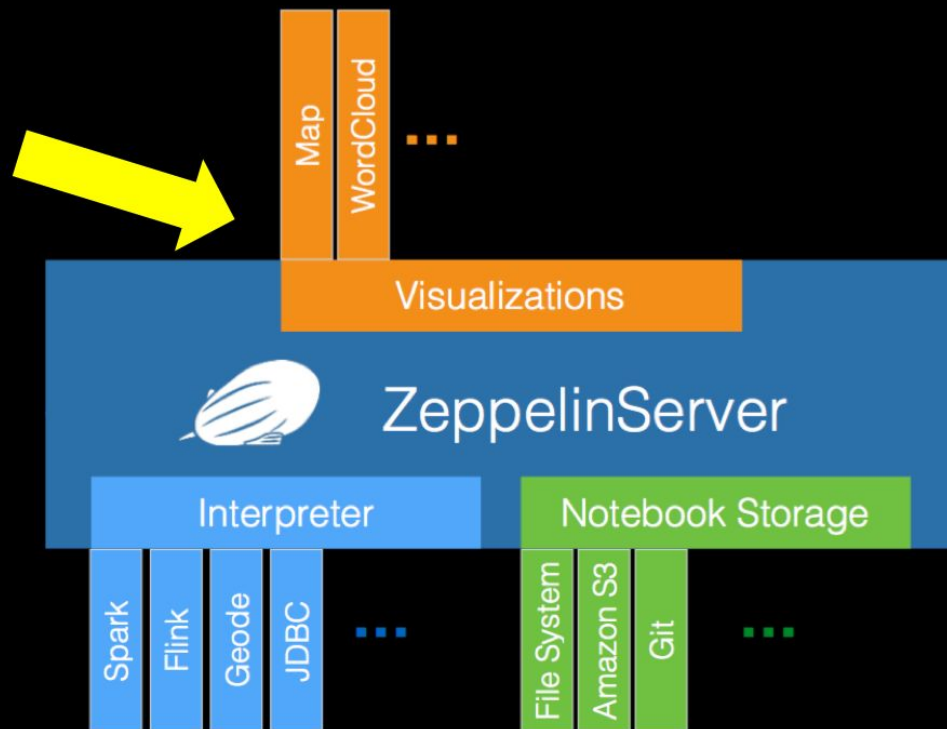


Helium?

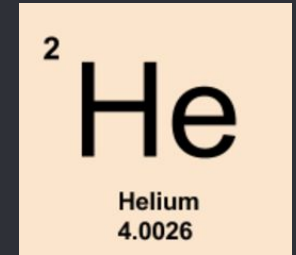
A **platform** for data analytics application that makes visualization **pluggable** and more



Interpreters and Notebook storage are pluggable



We want visualization be pluggable



Helium?

Proposal

<https://cwiki.apache.org/confluence/display/ZEPPELIN/Helium+proposal>

Jira umbrella issue

<http://issues.apache.org/jira/browse/ZEPPELIN-533>

Pull request

<https://github.com/apache/zeppelin/pull/1842>



1

So, how can I use it?



find packages



Greetings, ahyoung

★ **zeppelin-bubblechart** public

Animated bubble chart

Animated bubble chart for **Apache Zeppelin**.Bubble chart implementation copied from https://github.com/vlandham/gates_bubbles

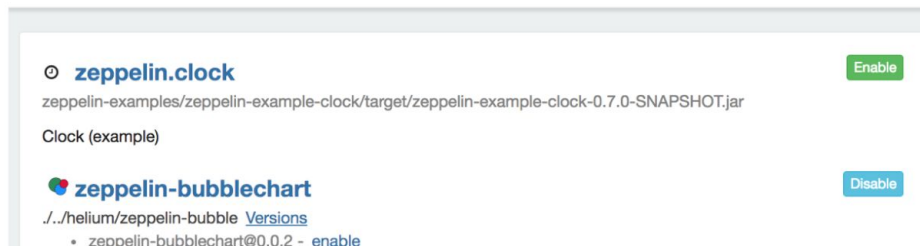
How to use

Place **zeppelin-bubble.json** in your local registry (default location is `ZEPPELIN_HOME/helium`).

And enable visualization from Helium menu.



Helium (Experimental)



Unleash awesomeness

Private packages, team management tools, and powerful integrations. [Get started with npm Orgs](#) `npm i zeppelin-bubblechart`[how?](#) [learn more](#) **leemoonsoo** published a month ago**0.0.4** is the latest of 4 releasesgithub.com/Leemoonsoo/zeppelin-bubble

BSD-2-Clause

Collaborators [list](#)

Stats

214 downloads in the last day**963** downloads in the last week

<https://zeppelin.apache.org/docs/0.7.0/development/writingzeppelinvisualization.html>

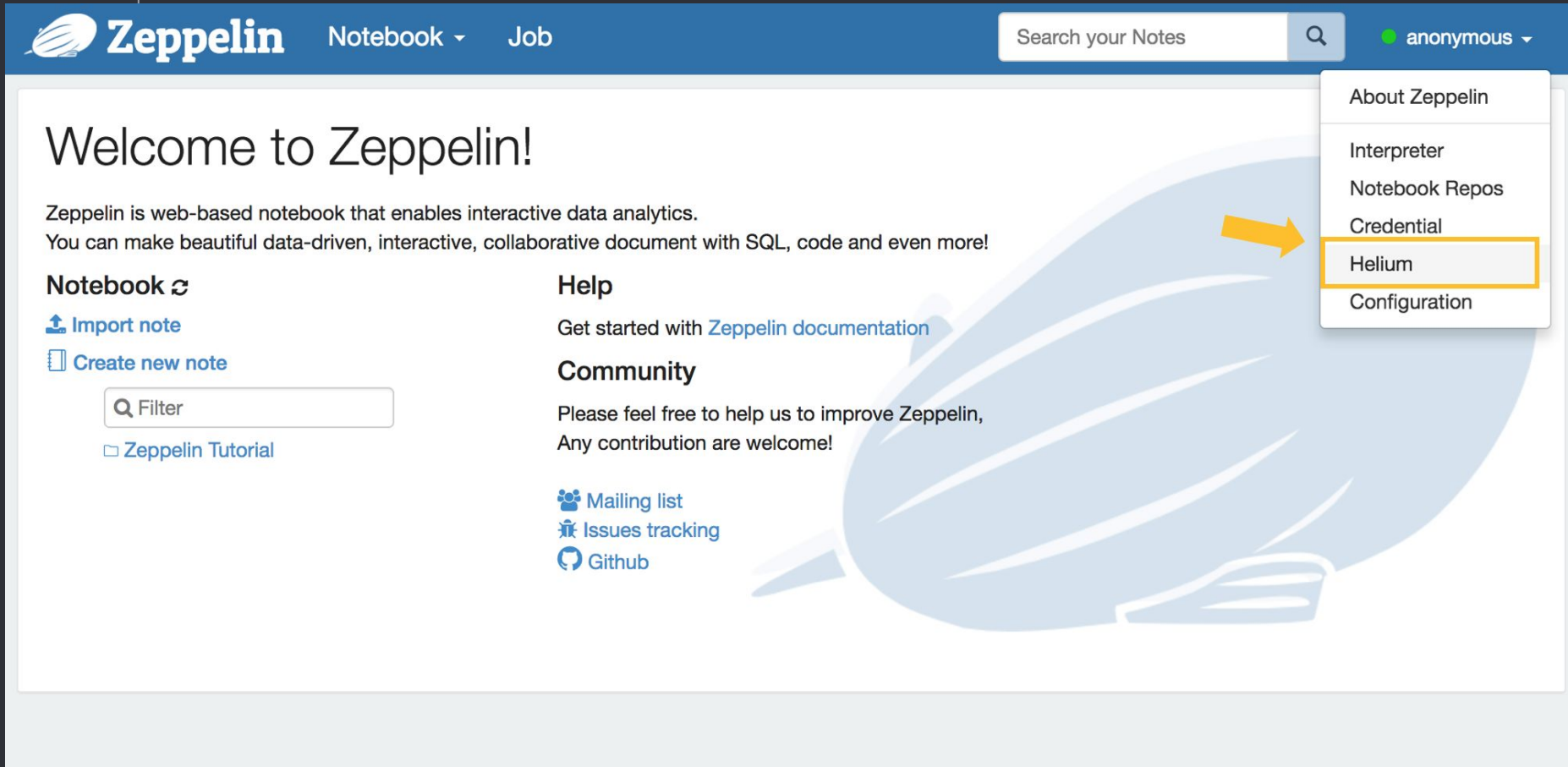
● 1. Create Helium package spec file

```
{
  "type" : "VISUALIZATION",
  "name" : "zeppelin-bubblechart",
  "description" : "Animated bubble chart",
  "artifact" : "zeppelin-bubblechart@0.0.4",
  "license" : "BSD-2-Clause",
  "icon": "<svg viewBox='0 0 70 70'><circle cx='26' cy='28' stroke='black' style='stroke-width: 1px;' r='25' fill='seagreen'/><circle cx='54' cy='24' stroke='black' style='stroke-width: 1px;' r='15' fill='crimson'/></svg>"
}
```

e.g. zeppelin-bubble.json

2. Put under local registry (ZEPPELIN_HOME/helium)

● 3. Restart Zeppelin and go to Helium menu!



The screenshot shows the Zeppelin web interface. The top navigation bar is blue and contains the Zeppelin logo, "Notebook" and "Job" dropdown menus, a search bar labeled "Search your Notes", and a user status indicator "anonymous". The main content area has a white background with a large blue whale illustration in the background. On the left, there's a "Welcome to Zeppelin!" section with a description of Zeppelin as a web-based notebook. Below this are links for "Notebook", "Import note", and "Create new note". A search filter box is also present. On the right, there's a "Help" section with a link to "Zeppelin documentation" and a "Community" section with links to "Mailing list", "Issues tracking", and "Github". In the top right corner, a dropdown menu is open, showing options: "About Zeppelin", "Interpreter", "Notebook Repos", "Credential", "Helium" (which is highlighted with a yellow border and an orange arrow points to it), and "Configuration".

Zeppelin Notebook ▾ Job

Search your Notes 🔍 anonymous ▾

Welcome to Zeppelin!

Zeppelin is web-based notebook that enables interactive data analytics.
You can make beautiful data-driven, interactive, collaborative document with SQL, code and even more!

Notebook ↻

📄 Import note

📄 Create new note

🔍 Filter

📁 Zeppelin Tutorial

Help

Get started with [Zeppelin documentation](#)

Community

Please feel free to help us to improve Zeppelin,
Any contribution are welcome!


👤 Mailing list

🔗 Issues tracking

🐙 Github


- About Zeppelin
- Interpreter
- Notebook Repos
- Credential
- Helium**
- Configuration

- 4. Enable the package

 **Zeppelin** Notebook ▾ Job


Search your Notes 🔍 anonymous ▾

Helium

 **zeppelin-bubblechart** VISUALIZATION

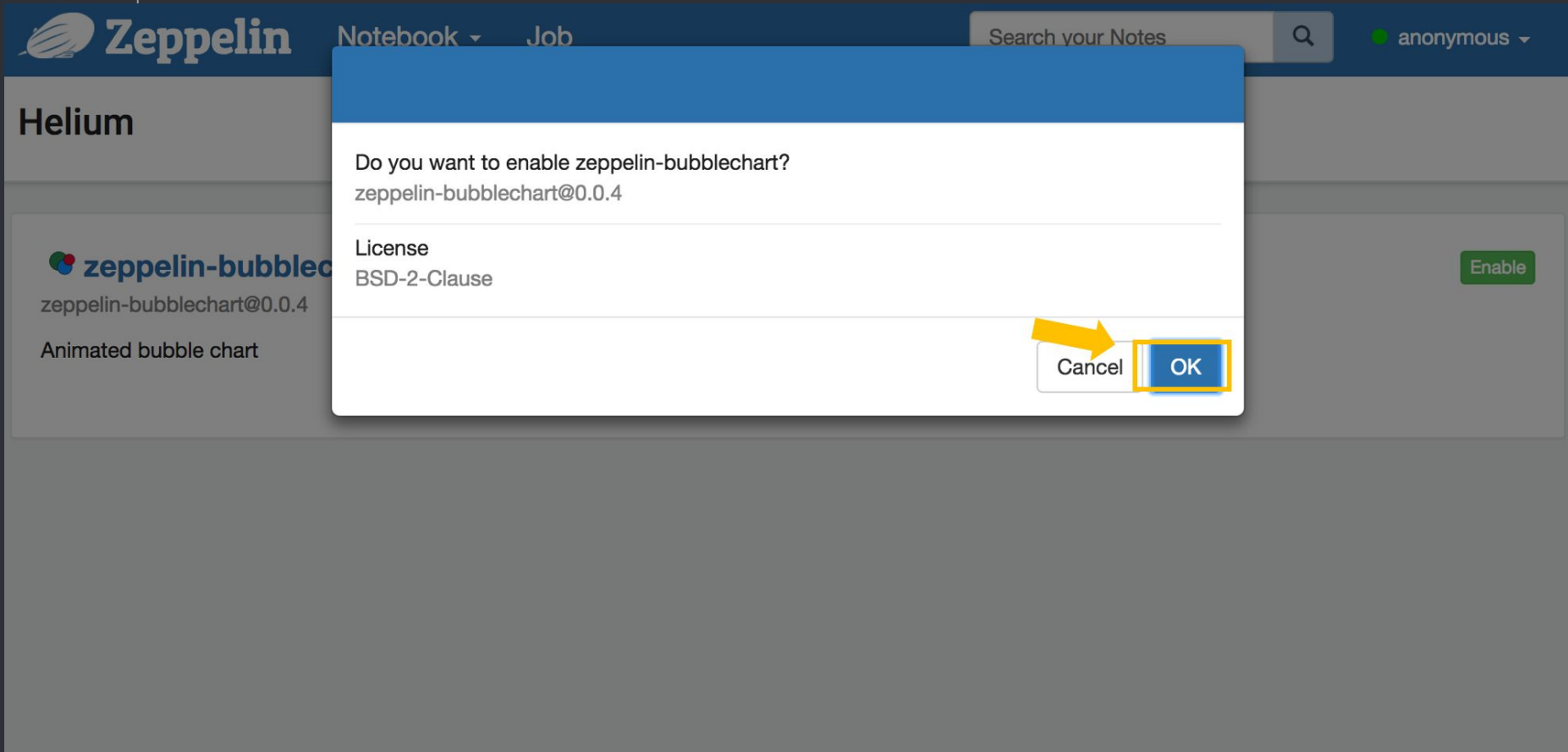
zeppelin-bubblechart@0.0.4

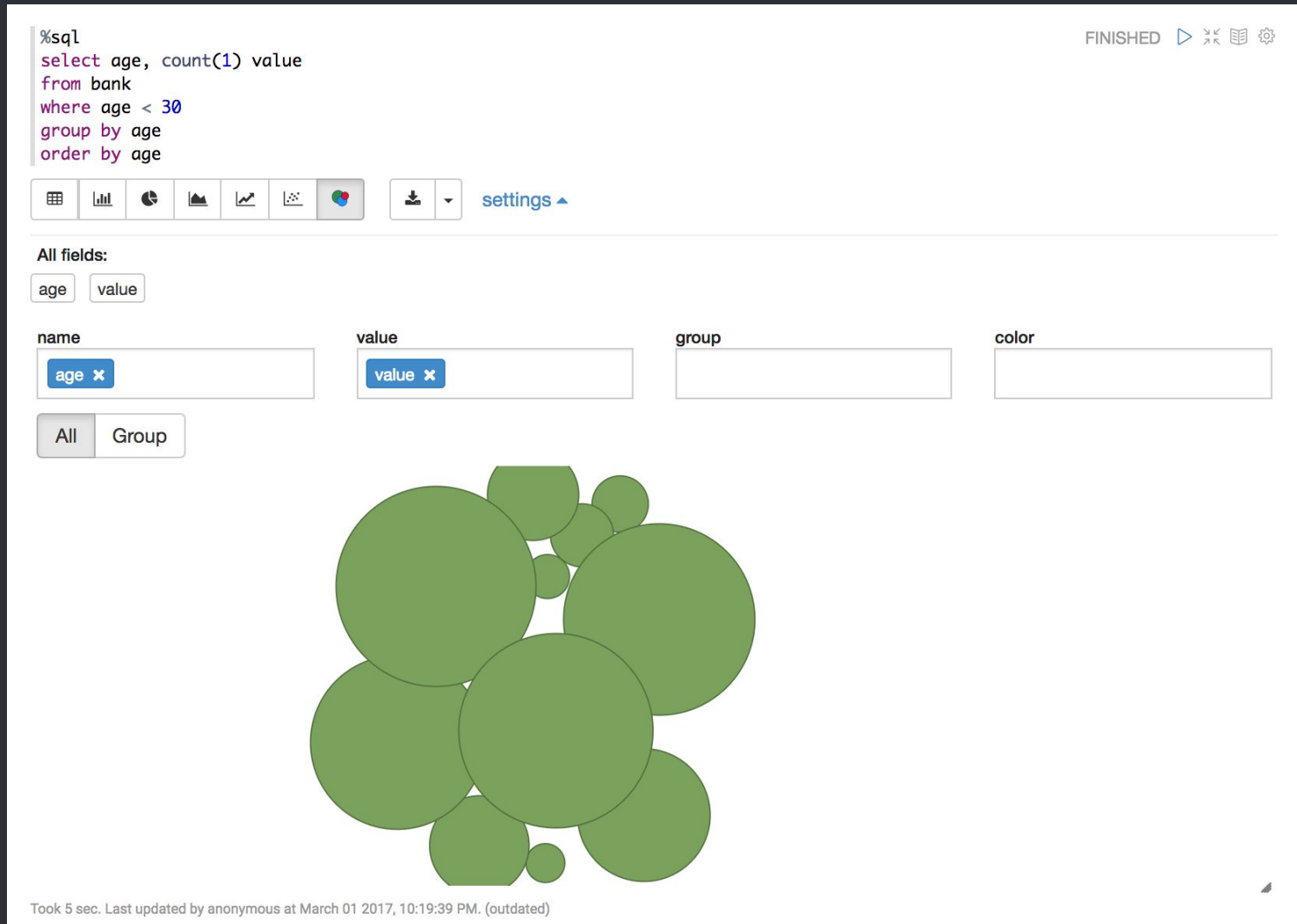
Animated bubble chart



Enable

- 4. Enable the package





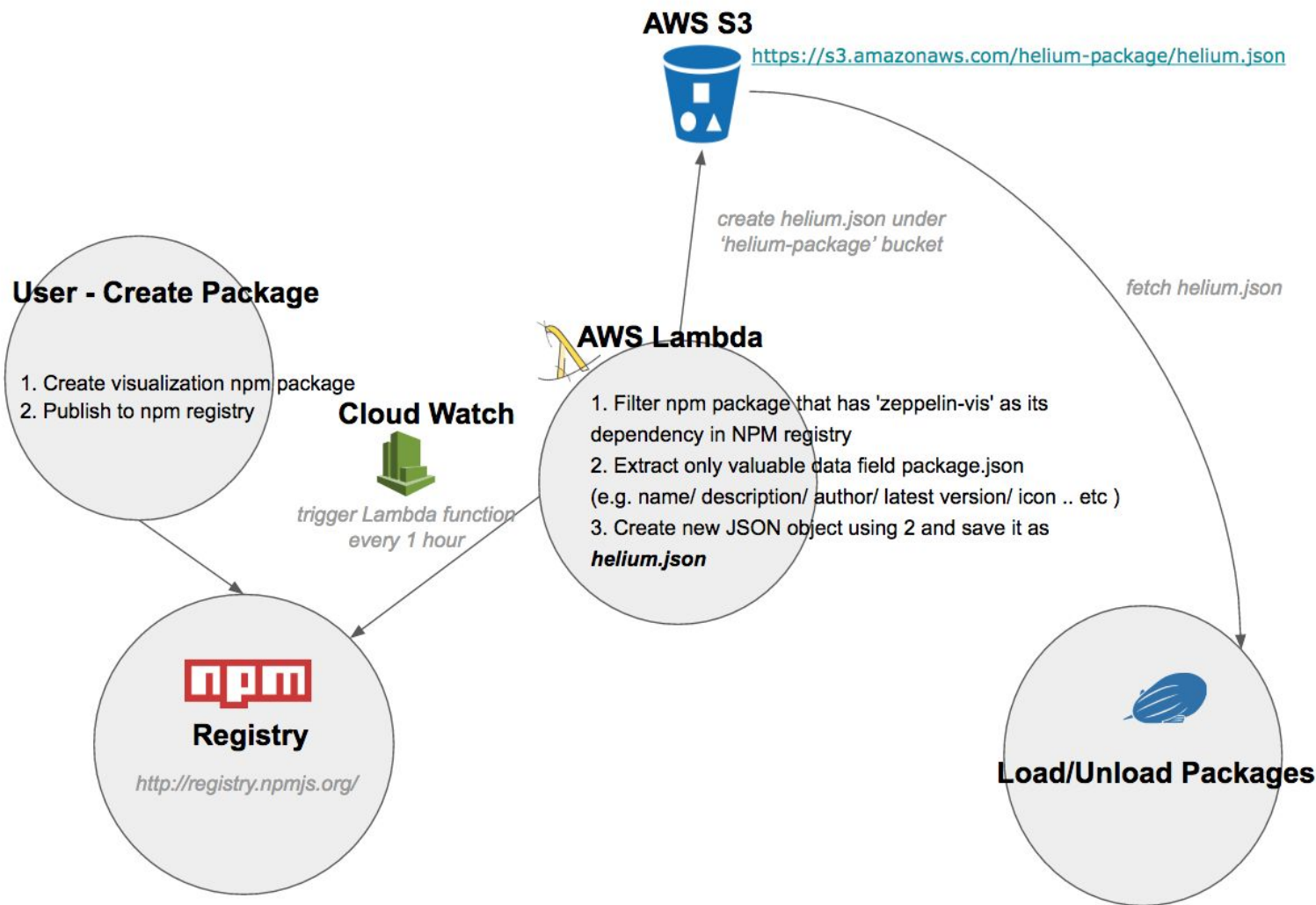
“

Package file 직접 만드는데 좀
번거롭다면?

다른 사람들것도 한눈에 보고싶다면?

2

Helium Online Registry - Zeppelin 0.8.0





DEMO

https://zeppelin.apache.org/helium_packages.html

[Build with master branch](#)



3

Future work

“

Interpreter 도 *Helium* 메뉴에서 쉽게
install/uninstall 할 수 있다면?

“

NPM registry -> Maven central repo!



DEMO

[PR #2037](#)

[Build only web with ZEPPELIN-2109 branch](#)

Related Jira issue



1. Install interpreters in Helium menu

<https://issues.apache.org/jira/browse/ZEPPELIN-1993>

2. List community & 3rd party interpreter registered in Maven central repository

<https://issues.apache.org/jira/browse/ZEPPELIN-2110>

A vertical white line on the left side of the slide, with three small white circles positioned at regular intervals along it.

So...



So...

“Next challenge is enrich the online Helium registry”

<https://www.slideshare.net/HadoopSummit/apache-zeppelin-helium-and-beyond>

Thanks!

○ ANY QUESTIONS?