Apache Zeppelin 0.7.0

Part2. Helium

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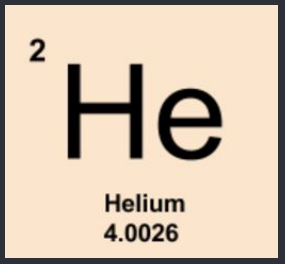
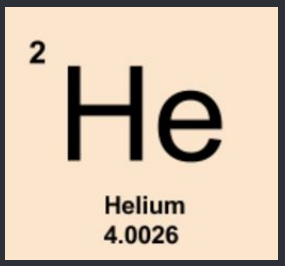
A software engineer @ZEPL

A Committer of Apache Zeppelin

Helium?



Helium?



Google에 “Apache Zeppelin Helium” 을 검색해보면..

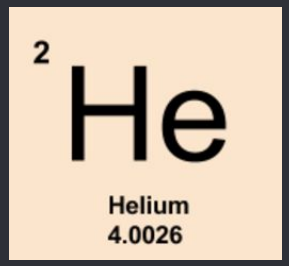
Makes Zeppelin fly!

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

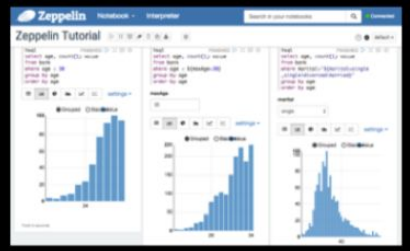
https://www.slideshare.net/HadoopSummit/apache-zeppelin-helium-and-beyond



Helium?

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

Helium



RESTful API

Websocket

ZeppelinServer

Interpreter

Notebook Storage

Spark

Flink

Geode

JDBC

...

File System

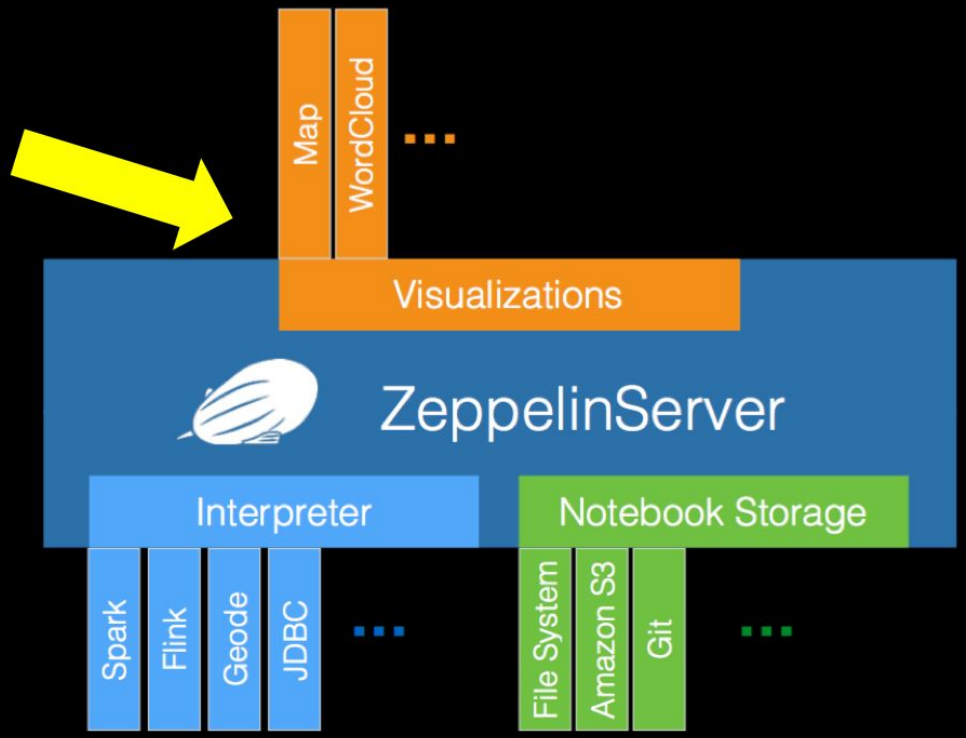
Amazon S3

Git

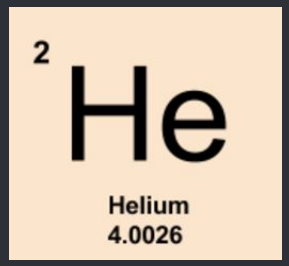
...

Interpreters and Notebook storage are pluggable

Helium



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?

Naming Prosecution Mitigator

npm Enterprise features pricing documentation support

find packages

Greetings, ahyoung

zeppelin-bubblechart public

Animated bubble chart

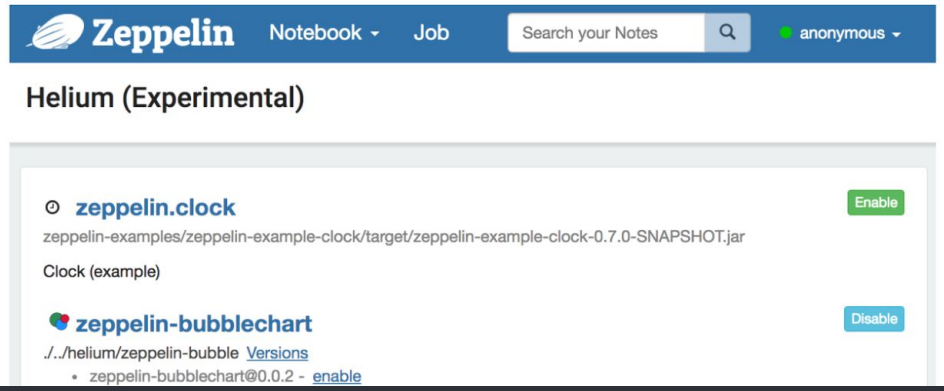
Animated bubble chart for **Apache Zeppelin**.

Bubble chart implementation copied from **https://github.com/vlandham/gates_bubbles**

How to use

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

And enable visualization from Helium menu.



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 releases

github.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

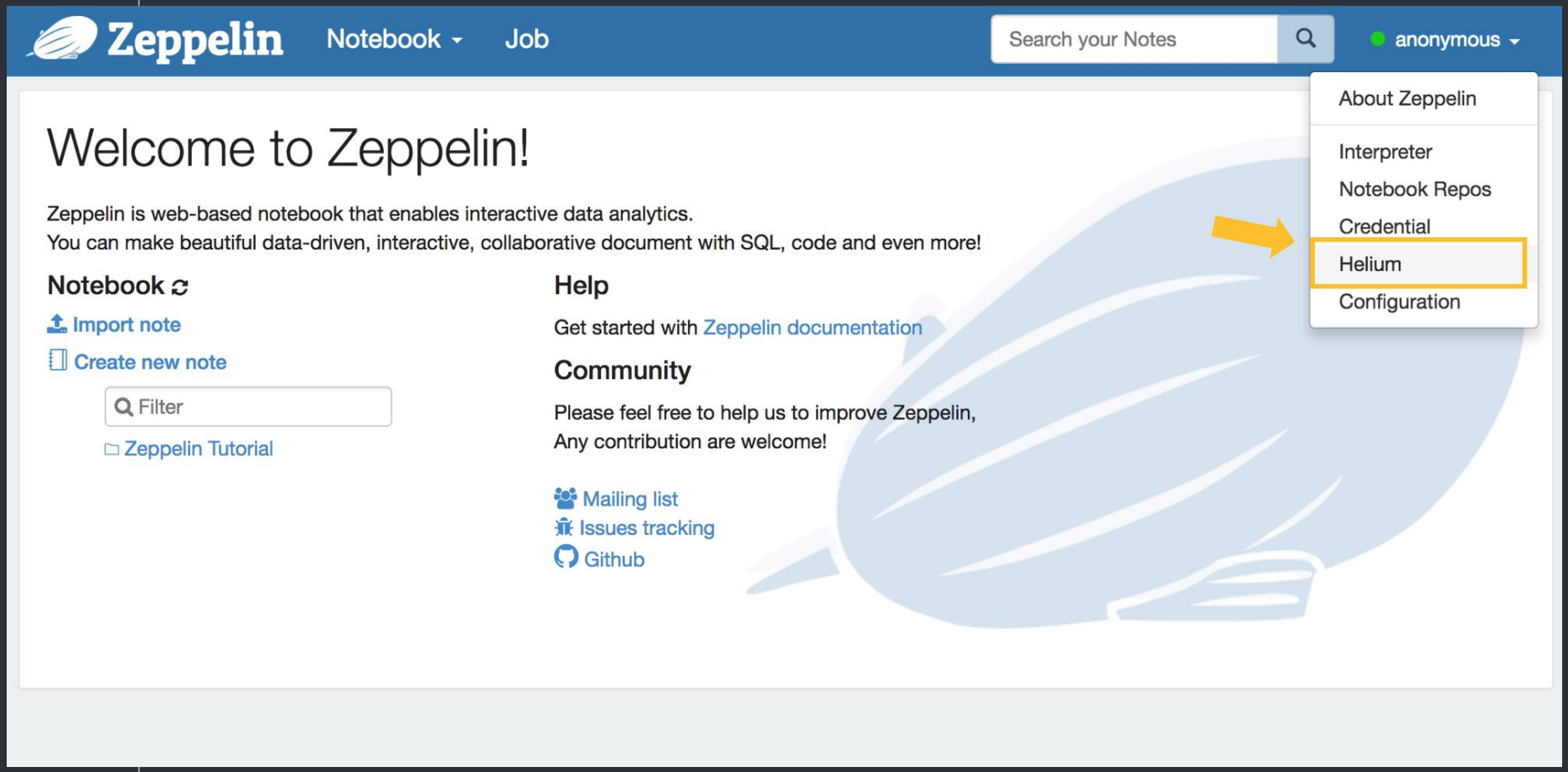
1. Create Helium package spec file

```
{
  "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='
<circle cx='54' cy='24' stroke='black' style='stroke-width: 1px;' r='15' fill='crimson'/></svg>"
}
```

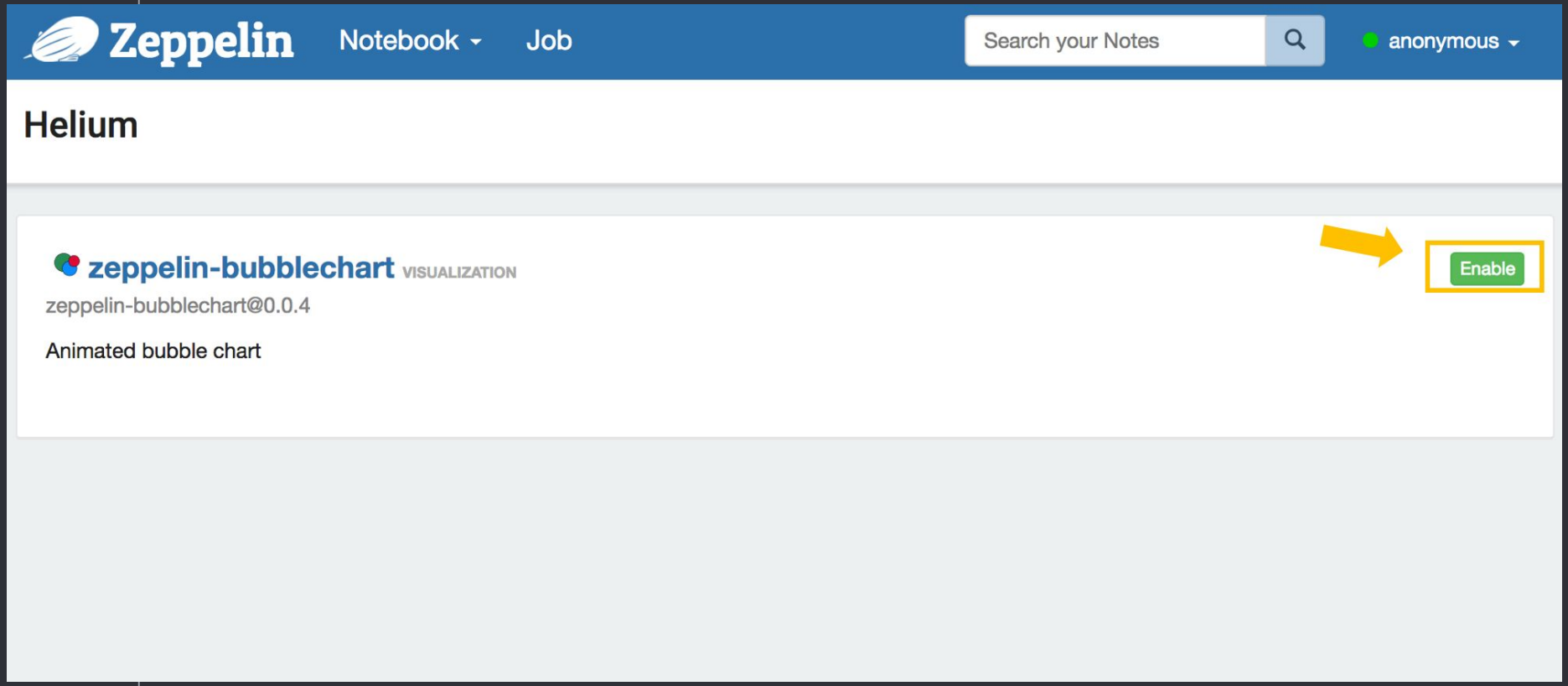
e.g. zeppelin-bubble.json

2. Put under local registry (ZEPPELIN_HOME/helium)

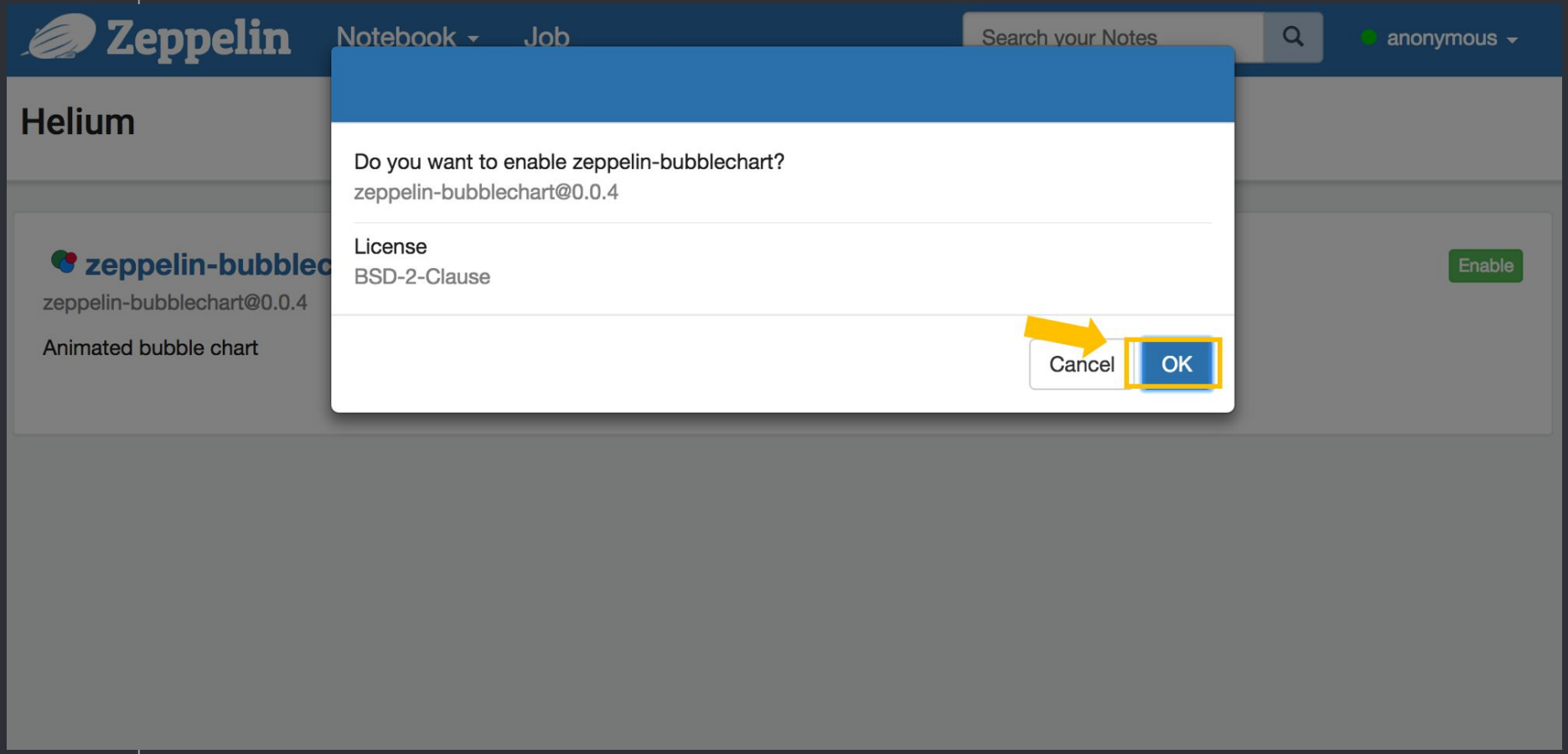
- 3. Restart Zeppelin and go to Helium menu!



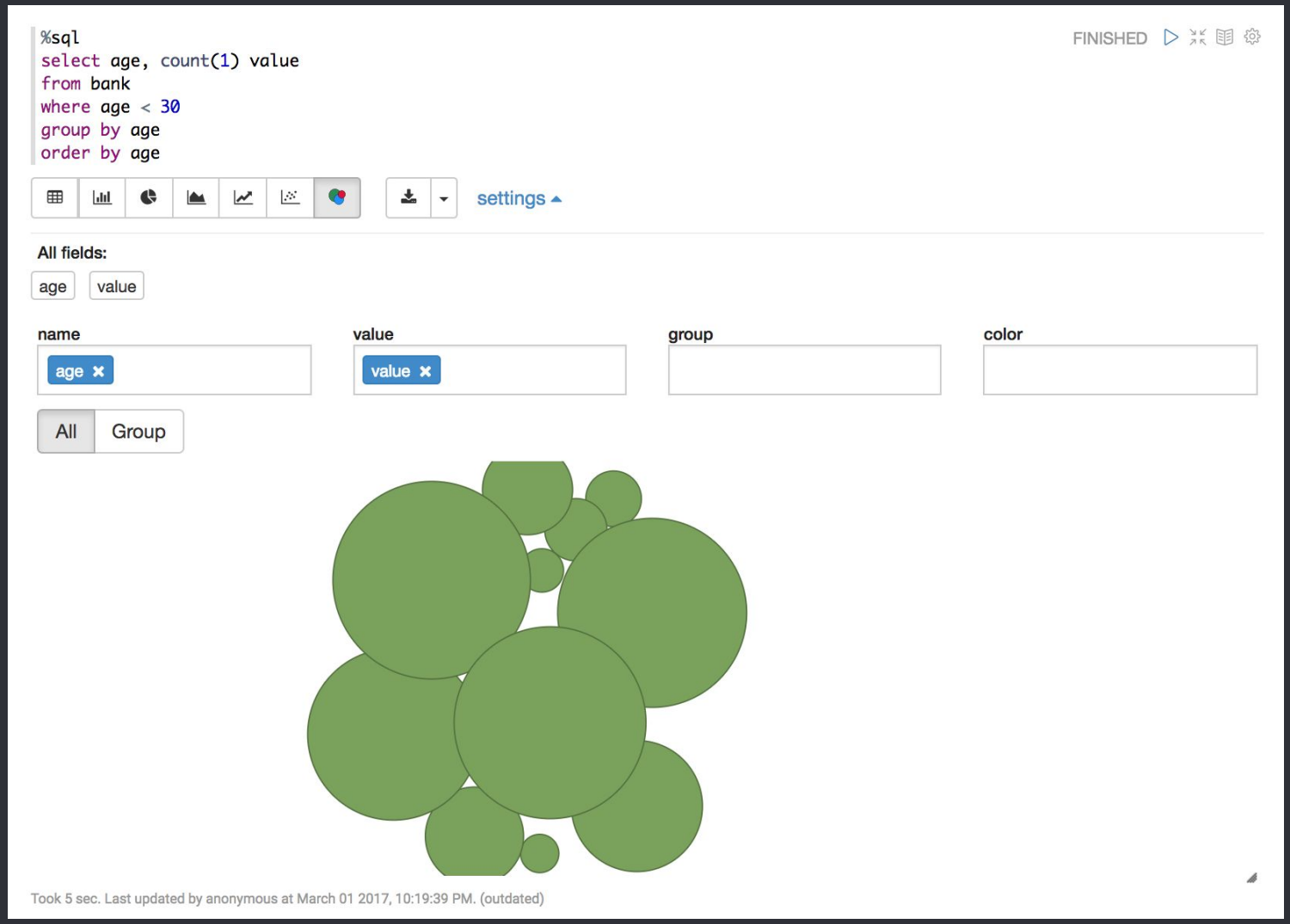
4. Enable the package



4. Enable the package

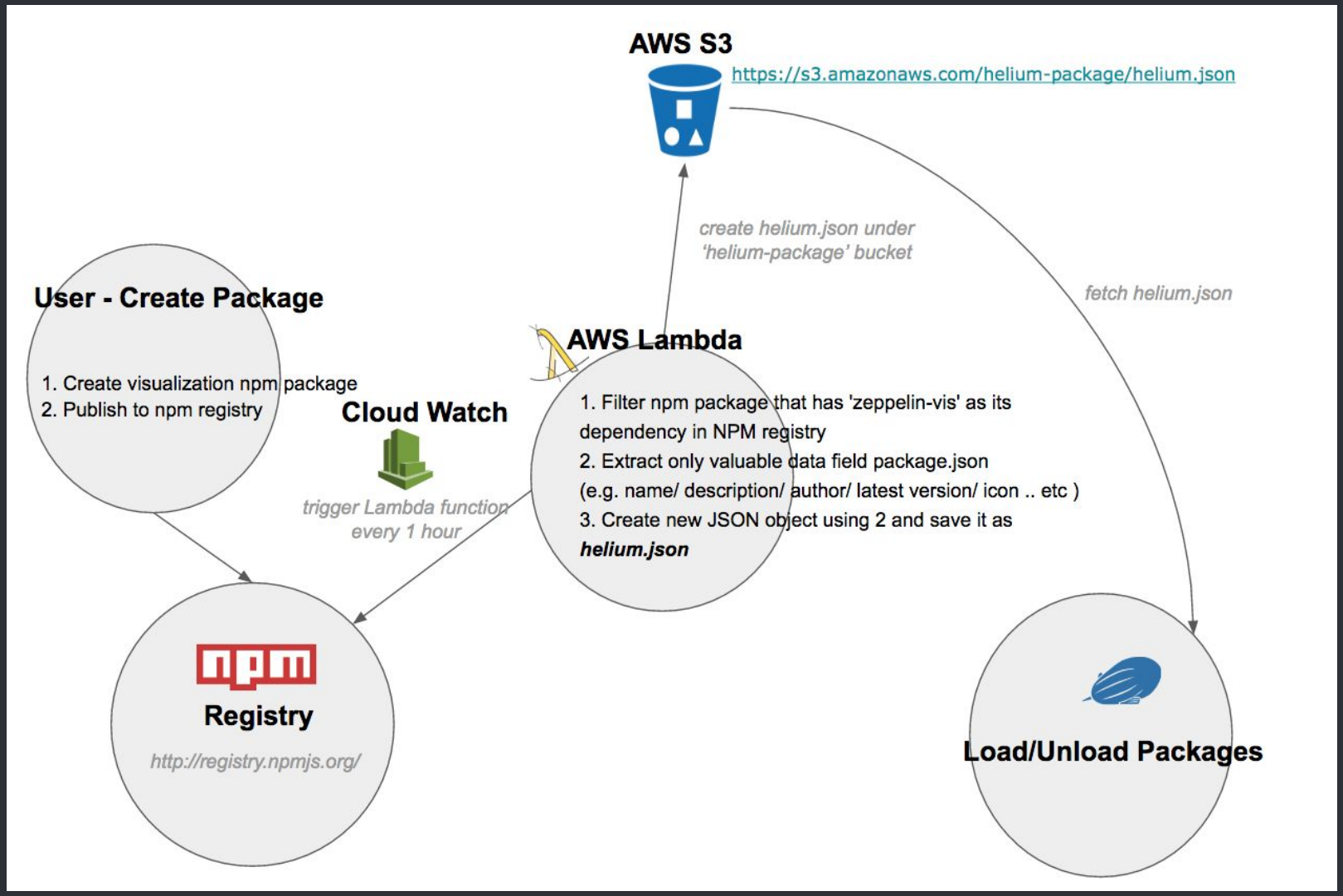


5. Draw the chart with new visualization package!



Package file 직접 만드는게 좀
번거롭다면?
다른 사람들것도 한눈에 보고싶다면?

2 Helium Online Registry - Zeppelin 0.8.0



Source code repository

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

So...

So...

“Next challenge is enrich the online Helium registry”

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

Thanks!

ANY QUESTIONS?