

APACHE ZEPPELIN TRAINING



Session 3. Helium part 2 : SPELL

<http://bit.ly/2k3b9jU>

지난 시간에는 ..

1회차 (2018. 04. 28) - Apache Zeppelin Overview (1)

- Apache Zeppelin의 Data Science Life Cycle에서의 위치 및 역할
- Apache Zeppelin A to Z
 - Interpreter Settings
 - Job Management
 - Notebook Repositories
 - Credential Settings
 - Helium
 - Configurations
- Hands on Sessions
 - Notebook Versioning
 - Change notebook repository to AWS S3
 - Shiro Authentication
- Open source project 인 Apache Zeppelin, 어떻게 개발되고 운영될까요 ?

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2회차 (2018. 05. 12) - Apache Zeppelin Overview (2)

- Multi user environment in Zeppelin
 - Shiro Authentication
 - Notebook permission settings
 - Interpreter permission settings
 - Personalized mode
- Helium : pluggable system in Zeppelin
 - What is Helium ? Why it's proposed ?
 - Visualization type Helium package
 - Hands-on session : map / heatmap/ bubble chart로 그려보기

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2회차 (2018. 05. 12) - Apache Zeppelin Overview (2)

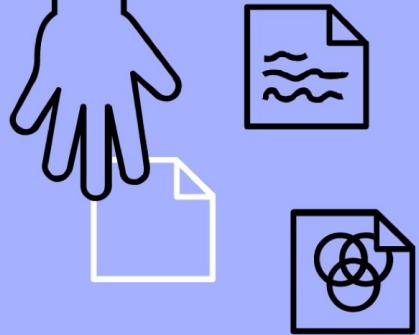
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 - Visualization type Helium package
 - Hands-on session : map / heatmap/ bubble chart로 그려보기
- Helium part 1이라고 볼 수 있었어요

3회차 (2018. 05. 19) - Apache Zeppelin Overview (3)

- Helium part 2 : Pluggable Frontend Interpreter, SPELL
 - What is SPELL ?
 - How to use it ?
 - How it works ?
 - **Hands on session** : useful packages published in online registry
- **Need help ?** Be part of the community !

INDEX

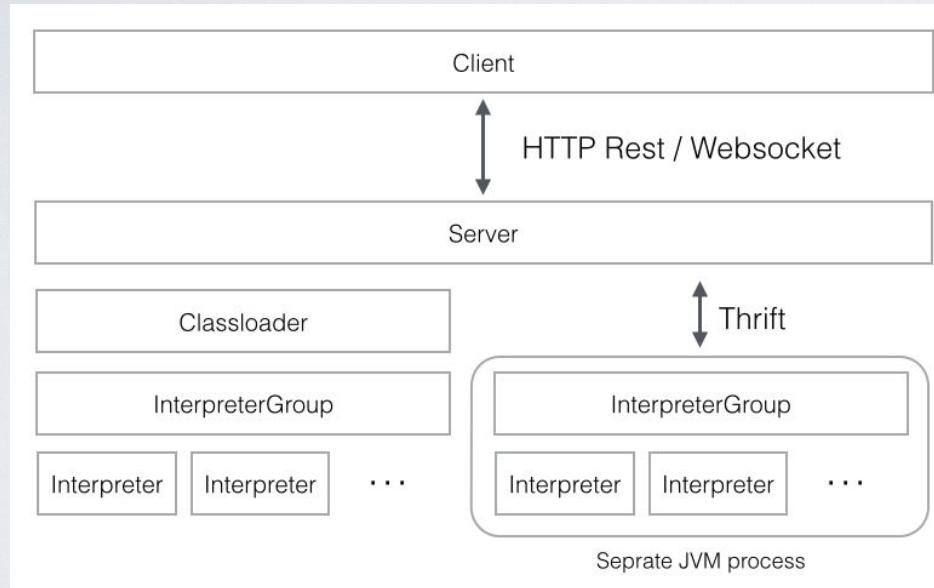
1. Helium part 2. SPELL
2. Apache Zeppelin community 로 부터 도움 받기



Helium part 2. SPELL

Frontend Interpreter

Interpreters in Zeppelin



공식 docs 에 의하면..

“Apache Zeppelin Interpreter is a language backend. For example to use scala code in Zeppelin, you need a scala interpreter.”

Interpreters in Zeppelin

하지만 문제는...

- Interpreter 또한 pluggable system 의 일종이지만
 - Java로 쓰여져 있고
 - HTML 을 dynamic하게 다뤄야 한다면 ?
- 다른 interpreter 와 combine 해서 사용 불가
 - E.g. 한 paragraph 내에 Spark + Markdown interpreter 함께 사용 X

Interpreters in Zeppelin

[Display System](#) 이 그것을 가능하게 하는 듯 했지만...

Interpreters in Zeppelin

[Display System](#) 이 그것을 가능하게 하는 듯 했지만...

```
%python  
  
name = "Ahyoung Ryu"  
print("\n" + name)  
print("%html <h3 style='color: #3071a9'>" +name + "</h3>")
```

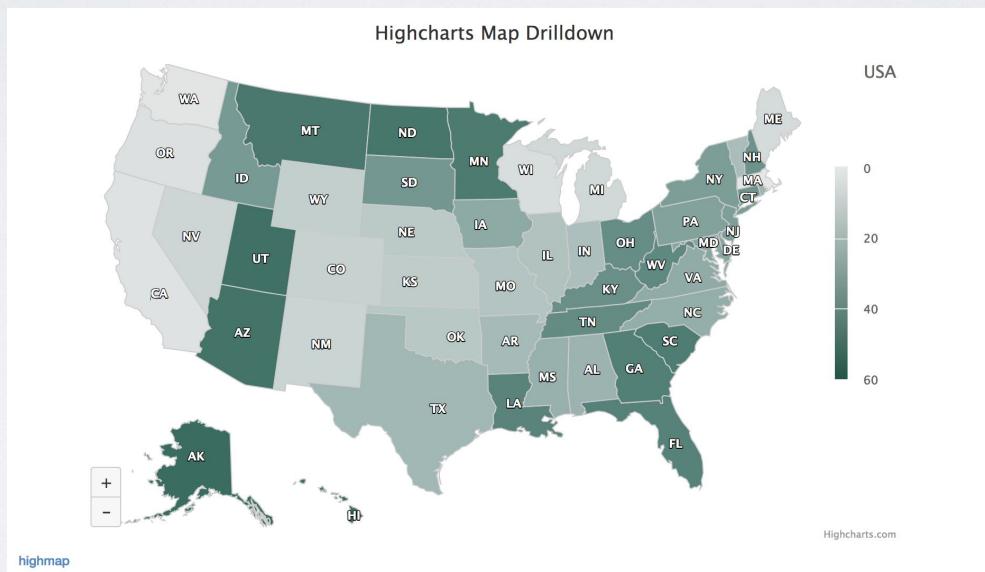
Ahyoung Ryu

Took 4 sec. Last updated by anonymous at May 18 2018, 2:49:24 AM. (outdated)

간단한 마크업 결과물 하나 얹어내는데 원가 복잡한것만
같고

Interpreters in Zeppelin

Display System 이 그것을 가능하게 하는 듯 했지만...



Highchart Example

```
%python
print('''
<div id="highchart_container" style="height: 500px; min-width: 310px; max-width: 800px; margin: 0 auto
<h6><a href="https://shop.highsoft.com/highmaps" target="_blank">highmap</a></h6>
<script>
function myChartRendering() {
var data = Highcharts.geojson(Highcharts.maps['countries/us/us-all']);
// Some responsiveness
small = $('#highchart_container').width() < 400;

// Set drilldown pointers
$.each(data, function (i) {
    this.drilldown = this.properties['hc-key'];
    this.value = i; // Non-random bogus data
});

// Instanciate the map
Highcharts.mapChart('highchart_container', {
    chart: {
        events: {
            drilldown: function (e) {
                if (!e.seriesOptions) {
                    var chart = this,
                        mapKey = 'countries/us/' + e.point.drilldown + '-all',
                        // Handle error, the timeout is cleared on success
                    fail = setTimeout(function () {
                        if (!Highcharts.maps[mapKey]) {
                            chart.showLoading('<i class="icon-frown"></i> Failed loading ' + e
                                + ')';
                            fail = setTimeout(function () {
                                chart.hideLoading();
                            }, 1000);
                        }
                    }, 3000);

                    // Show the spinner
                    chart.showLoading('<i class="icon-spinner icon-spin icon-3x"></i>'); // Font Awesome spinner

                    // Load the drilldown map
                    $.getScript('https://code.highcharts.com/mapdata/' + mapKey + '.js', function () {...});

                    this.setTitle(null, { text: e.point.name });
                },
                drillup: function () {
                    this.setTitle(null, { text: 'USA' });
                }
            },
            title: {...},
            subtitle: {...},
            legend: {...},
            colorAxis: {...},
            mapNavigation: {...},
        }
    }
});
```

FINISH!

```
        mapNavigation: {...},
        plotOptions: {...},
        series: [...],
        drilldown: {...});
}

jQuery.getScript('//code.jquery.com/jquery-3.1.1.min.js',
function() {
    $('#highchart_container').text("loading... jquery");
    jQuery.getScript('//code.highcharts.com/maps/highmaps.js',
function() {
    $('#highchart_container').text("loading... Highmaps");
    jQuery.getScript('//code.highcharts.com/maps/modules/data.js',
function() {
    $('#highchart_container').text("loading... Highmaps.. modules");
    jQuery.getScript('//code.highcharts.com/maps/modules/drilldown.js',
function() {
    $('#highchart_container').text("loading... drilldown");
    jQuery.getScript('//code.highcharts.com/mapdata/countries/us/us-all.js',
function() {
        $('#highchart_container').text("loading... us map data...");
        jQuery('#highchart_container').ready(
            jQuery.Deferred(function( deferred ){
                $('#highchart_container').text("loading... ready...");
                jQuery(deferred.resolve);
                if (!Highcharts) {
                    myChartRendering();
                }
            })
        );
    });
});
});
});
```

Highchart Example

```
%python
print('''%xml
<div id="highchart_container" style="height: 500px; min-width: 310px; max-width: 800px; margin: 0 auto
<h6><a href="https://shop.hightsoft.com/highmaps" target="_blank">highmap<a></h6>
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function myChartRendering() {
var data = Highcharts.geojson(Highcharts.maps['countries/us/us-all']),
    // Some responsiveness
    small = $('#highchart_container').width() < 400;

    // Set drilldown pointers
    $.each(data, function (i) {
        this.drilldown = this.properties['hc-key'];
        this.value = i; // Non-random bogus data
    });

    // Instanciate the map
    Highcharts.mapChart('highchart_container', {
        chart: {
            events: {
                drilldown: function (e) {
                    if (!e.seriesOptions) {
                        var chart = this,
                            mapKey = 'countries/us/' + e.point.drilldown + '-all',
                            // Handle error, the timeout is cleared on success
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                                if (!Highcharts.maps[mapKey]) {
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                                    fail = setTimeout(function () {
                                        chart.hideLoading();
                                    }, 1000);
                                }
                            }, 3000);

                            // Show the spinner
                            chart.showLoading('<i class="icon-spinner icon-spin icon-3x"></i>'); // Font Awesome spinner

                            // Load the drilldown map
                            $SCRIPT('https://code.highcharts.com/mapdata/' + mapKey + '.js', function () {...});
                }
            }

            this.setTitle(null, { text: e.point.name });
        },
        drillup: function () {
            this.setTitle(null, { text: 'USA' });
        }
    })
}

title: {...},
subtitle: {...},
legend: {...},
colorAxis: {...},
mapNavigation: {...},
```

원가 굉장히

복잡하다...

What is SPELL?

Backend에서 동작되는 것이 아닌, 브라우저에서 돌아가는 interpreter. 즉, **Frontend Interpreter**.

Frontend Interpreter?

어떤 의미 & 장점이 있을까요 ?

- 쉽게 install / uninstall 가능 : Zeppelin 의 Pluggable system인 Helium pkg 의 한 종류이기 때문

Frontend Interpreter?

어떤 의미 & 장점이 있을까요 ?

- 쉽게 **install / uninstall** 가능 : Zeppelin 의 Pluggable system인 Helium pkg 의 한 종류이기 때문
- **확장성** : Spell pkg (Visualization pkg 도 마찬가지) 는 Javascript 로 쓰여졌기 때문에 원하는 Javascript lib 가 있다면 Spell pkg 로 만들어 사용 가능

Frontend Interpreter?

어떤 의미 & 장점이 있을까요 ?

- 쉽게 `install / uninstall` 가능 : Zeppelin 의 Pluggable system인 Helium pkg 의 한 종류이기 때문
- 확장성 : Spell pkg (Visualization pkg 도 마찬가지)는 Javascript 로 쓰여졌기 때문에 원하는 Javascript lib 가 있다면 Spell pkg 로 만들어 사용 가능
- [Display System](#) 처럼 `%magic` 로 사용

How to use it ?

1. Enable package

The screenshot shows the Apache Zeppelin Helium page at `localhost:8080/#/helium`. The page has a blue header with the Zeppelin logo and tabs for Notebook, Job, Search, anonymous, and a user icon. Below the header is a toolbar with buttons for Visualization, SPELL, INTERPRETER, and APPLICATION. A note says "*Local registry package's name is gray colored." The main content area lists several packages:

- zeppelin-agrid** VISUALIZATION
zeppelin-agrid@0.1.1
Data visualization with Ag-Grid for Apache Zeppelin
- zeppelin-highmaps** VISUALIZATION
zeppelin-highmaps@1.0.0
Zeppelin plugin to visualize data using Highmaps
- ultimate-heatmap-chart** VISUALIZATION
ultimate-heatmap-chart@0.0.2
The Ultimate Heatmap Chart for Apache Zeppelin using highcharts
- ultimate-scatter-chart** VISUALIZATION
ultimate-scatter-chart@0.0.2
The Ultimate Scatter Chart for Apache Zeppelin using highcharts
- ultimate-range-chart** VISUALIZATION
ultimate-range-chart@0.0.2
The Ultimate Range Chart for Apache Zeppelin using highcharts

Each package entry has a green "Enable" button on the right.

1. /helium page로 이동
2. 우측 상단 4개 package type 버튼들 중 **SPELL** 선택
3. 원하는 package “Enable”

How to use it ?

2. “MAGIC” keyword 와 “USAGE” 확인

 **zeppelin-translator-spell** SPELL
zeppelin-translator-spell@0.0.1
Translate text using Google Translator API

MAGIC %translator

USAGE

```
%translator source=<source> target=<target> <TEXT>
```

How to use it ?

2. “Config” 유무 확인

 **zeppelin-translator-spell** SPELL
zeppelin-translator-spell@0.0.1

Translate text using Google Translator API

MAGIC %*translator*

USAGE

```
%translator source=<source> target=<target> <TEXT>
```

Configuration

Name	Type	Description	Value
access-token	string	access token for Google Translation API	ya29.c.EI--Bfoc1YdUI-rE

Save **Close**

How to use it ?

3. “MAGIC” keyword 와 “USAGE” 대로 Paragraph에서 사용

```
%translator source=en target=ko
FINISHED ▶ ↻ ⟲ ⚒ ⚒

Hi! This is new spell using Google translate API :)

안녕! 이것은 Google API를 사용하여 새로운 맞춤법입니다 :)

Took 0 sec. Last updated by anonymous at May 18 2018, 2:12:18 AM. (outdated)
```

Hands-on Session

SPELL package 사용해보기

1. zeppelin-echo-spell

C **zeppelin-echo-spell** SPELL

/Users/1ambda/github/1ambda/zeppelin-echo-spell [versions](#)

- zeppelin-echo-spell@1.0.4 - [enable](#)

Repeat paragraph text

Configuration

Name	Type	Description	Value
repeat	number	How many times to repeat	<input type="text" value="2"/>

[Save](#) [Close](#)

2. zeppelin-markdown-spell

 **zeppelin-markdown-spell** SPELL

zeppelin-markdown-spell@0.0.3

Parse markdown using <https://github.com/evilstreak/markdown-js>

MAGIC `%markdown`

USAGE

```
%markdown <TEXT>
```

2. zeppelin-markdown-spell

h1 Heading 😎

Horizontal Rules

Code

```
var foo = function (bar) {  
    return bar++;  
};  
  
console.log(foo(5));
```

Tables

Right aligned columns

Option	Description
data	path to data files to supply the data that will be passed into templates.
engine	engine to be used for processing templates. Handlebars is the default.
ext	extension to be used for dest files.

Links

[link text](#)

[link with title](#)

<https://www.npmjs.com/package/zeppelin-markdown-spell>

2. zeppelin-markdown-spell

h1 Heading 😊

Horizontal Rules

Code

```
var foo = function (bar) {
  return bar++;
};

console.log(foo(5));
```

Tables

Right aligned columns

Option	Description
data	path to data files to supply the data that will be passed into templates.
engine	engine to be used for processing templates. Handlebars is the default.
ext	extension to be used for dest files.

Links

[link text](#)

[link with title](#)

Plugins

The killer feature of [markdown-it](#) is very effective support of [syntax plugins](#).

Emojis

Classic markup: 😊 :crush: 😢 :tear: 😔 😊

Shortcuts (emoticons): 😊 😢 😔 😊

see [how to change output](#) with twemoji.

Subscript / Superscript

- 19th
- H₂O

<ins>

[Inserted text](#)

<mark>

Marked text

Footnotes

Footnote 1 link^[1].

Footnote 2 link^[2].

Inline footnote^[3] definition.

Duplicated footnote reference^[2:1].

Definition lists

Term 1

Definition 1 with lazy continuation.

Term 2 with inline markup

Definition 2

3. zeppelin-translator-spell

 **zeppelin-translator-spell** SPELL

zeppelin-translator-spell@0.0.1

Translate text using Google Translator API

MAGIC %translator

USAGE

```
%translator source=<source> target=<target> <TEXT>
```

Configuration

Name	Type	Description	Value
access-token	string	access token for Google Translation API	ya29.c.EI--Bfoc1YdUI-rE

Save **Close**

<https://www.npmjs.com/package/zeppelin-translator-spell>

3. zeppelin-translator-spell

Google Translation API Access Token :

<https://www.npmjs.com/package/zeppelin-translator-spell>

3. zeppelin-translator-spell

```
%translator source=en target=ko
```

FINISHED ▶ ✎ 📄 ⚙

Hi! This is **new** spell using Google translate API :)

안녕! 이것은 Google의 API를 사용하여 새로운 맞춤법입니다 :)

Took 0 sec. Last updated by anonymous at May 18 2018, 2:12:18 AM. (outdated)

4. zeppelin-json-spell

 **zeppelin-json-spell** SPELL

zeppelin-json-spell@0.0.3

Use JSON editor in paragraphs

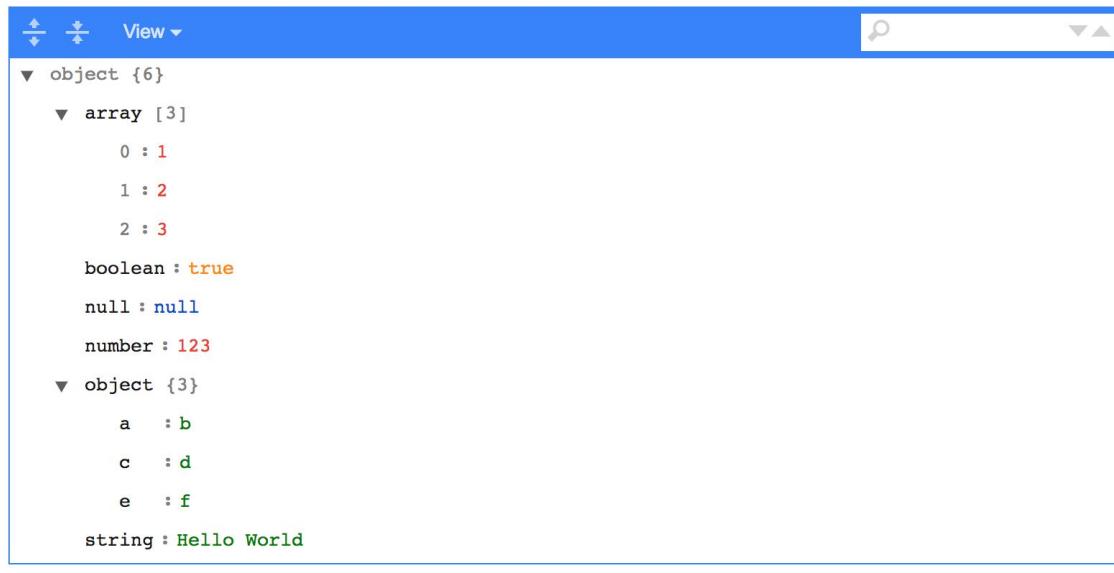
MAGIC *%json*

USAGE

%json <JSON>

4. zeppelin json spell

```
%json  
  
>{"array":[1,2,3],"boolean":true,"null":null,"number":123,"object":{"a":"b","c":"d","e":"f"},"string":  
:"Hello World"}
```



The screenshot shows the Zeppelin JSON Spell editor interface. At the top, there's a status bar with "FINISHED" and various icons. Below it is a search bar with a magnifying glass icon. The main area displays a hierarchical tree view of the JSON object. The root node is an object with 6 properties. One of the properties is an array with 3 elements, each labeled with a red number (1, 2, 3). Another property is a boolean value labeled "true". There are also null, number, and string properties. Each property is color-coded: numbers are red, booleans are orange, null is blue, and strings are green. The entire interface has a clean, modern design with a blue header bar.

<https://www.npmjs.com/package/zeppelin-json-spell>

4. zeppelin-csv-spell



zeppelin-csv-spell SPELL

zeppelin-csv-spell@0.0.1

Parse CSV to table for Apache Zeppelin

MAGIC %csv

USAGE

```
%csv <CSV>
```

4. zeppelin

```
%csv  
date,bucket,count  
2017-02-20,800,119  
2017-02-21,900,123  
2017-02-22,1000,173  
2017-02-23,1100,226  
2017-02-24,1200,284  
2017-02-25,1300,257  
2017-02-26,1400,268  
2017-02-27,1500,244  
2017-02-27,1600,220
```

FINISHED ▶ X ■ ○


```
READY ▶ X ■ ○
```

5. zeppelin-flowchart-spell

⤒ **zeppelin-flowchart-spell** SPELL

zeppelin-flowchart-spell@0.0.2

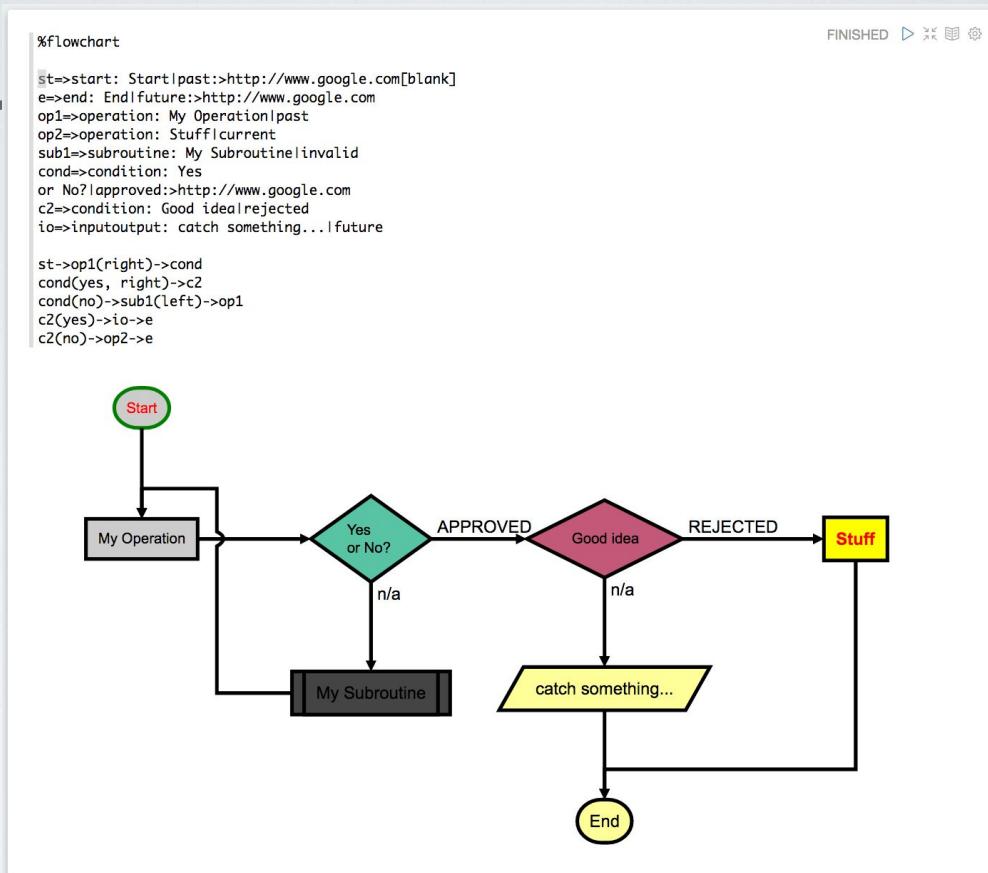
Draw flowchart using <http://flowchart.js.org>

MAGIC *%flowchart*

USAGE

```
%flowchart <TEXT>
```

5. zeppelin



6. zeppelin-

The screenshot shows a Zeppelin Notebook interface with the title "My Notebook". The left sidebar displays a "Contents" section with the following structure:

- 1 this is my notebook 😊
- 1.1 this works for all headers
- 1.2 like this!
- 1.2.1 inline headers

The main area contains three code cells:

- 1 this is my notebook 😊**
%markdown
this is my notebook :smile:
1 this is my notebook 😊
Took 0 sec. Last updated by anonymous at October 13 2017, 11:16:30 AM.
- 1.1 this works for all headers**
%md
this works for all headers
like this!
- 1.2 like this!**
Took 0 sec. Last updated by anonymous at October 13 2017, 11:27:09 AM. (outdated)

Below the second cell is a code cell:

```
%pyspark  
from pyspark.sql import Row  
  
print('%html <h3>inline headers</h3>')  
z.show(spark.createDataFrame([Row(x=x) for x in range(3)]))
```

The output of this cell is a table:

x
2
1
0

Took 0 sec. Last updated by anonymous at October 13 2017, 11:27:16 AM. (outdated)

<https://github.com/package/zeppelin-toc-spell>

Need help ?

Be part of Zeppelin community

Official Documentation

Apache Zeppelin의 공식 documentation site

- 여러 contributor 들에 의해 만들어진 docs site
- Site 에 publish 되기 전 내용 검증을 받으니 가장 믿을 만한 정보
- 기능은 있으나 documentation 되지 않은 것들이 많음..

Official

Apache Zeppelin

Web-based notebook that enables data-driven, interactive data analytics and collaborative documents

Apache Zeppelin

GET STARTED DOWNLOAD

Release

- 0.7.3
- 0.7.2
- 0.6.2
- 0.6.1

Older Versions

Snapshot (development) 0.8.0-SNAPSHOT

more.

TECHNOLOGIES



APACHE Spark



SQL



python™

See more details in Zeppelin supports 20+ different interpreters. [LEARN MORE ➤](#)

DEPLOYMENTS

Official

Apache

- 여전

- Site

- 가능

TE



See more details in Zeppelin site



Apache Zeppelin

Web-based notebook that enables data engineers and analysts to quickly prototype, validate, and produce reliable data pipelines and dashboards.

GET STARTED

Zeppelin 0.8.0-SNAPSHOT

Quick Start ▾ Usage ▾ Setup ▾ Interpreter ▾ More ▾

What is Apache Zeppelin?

Multi-purpose notebook which supports
20+ language backends

- >Data Ingestion
- Data Discovery
- Data Analytics
- Data Visualization & Collaboration

Documentation

Quick Start

- [Install](#) for basic instructions on installing Apache Zeppelin
- [Explore UI](#): basic components of Apache Zeppelin home
- [Tutorial](#)
- [Spark with Zeppelin](#)
- [SQL with Zeppelin](#)
- [Python with Zeppelin](#)

Usage

- [Dynamic Form](#)
 - [What is Dynamic Form](#): a step by step guide for creating dynamic forms
- [Display System](#)
 - [Text Display \(%text\)](#)
 - [HTML Display \(%html\)](#)
 - [Table Display \(%table\)](#)
 - [Network Display \(%network\)](#)
 - [Angular Display using Backend API \(%angular\)](#)

Interpreter

- [Overview](#)
- [Interpreter Binding Mode](#)
- [User Impersonation](#)
- [Dependency Management](#)
- [Installing Interpreters](#)
- [Execution Hooks \(Experimental\)](#)

Other Features



A screenshot of the Apache Zeppelin interface. On the left, there's a sidebar with navigation links like 'Dynamic Form', 'Display System', 'Interpreter', and 'Other Features'. The main area shows a line chart with data points over time, likely generated from a data visualization step in a notebook.

Official mailing list 이용하기

- Users : for usage questions, help, and announcements

- [Subscribe](#)
 - [Unsubscribe](#)

주로 Users mailing list 를 Zeppelin만의
stackoverflow 처럼 사용할 수 있을거에요

- Dev : for people wanting to contribute to the project

- [Subscribe](#)
 - [Unsubscribe](#)

- Commits : for commit messages and patches

- [Subscribe](#)
 - [Unsubscribe](#)

Official mailing list 이용하기

Integrating with Airflow

Inbox Tech/22. Apache Zeppelin/user-mailing

May 20 to users

Hi all,

We are really enjoying the workflow of interacting with our data via Zeppelin, but are not sold on using the built in cron scheduling capability. We would like to be able to create more complex DAGs that are better suited for something like Airflow. I was curious as to whether anyone has done an integration of Zeppelin with Airflow.

Either directly from within Zeppelin, or from the Airflow side.

Thanks,

모르는 부분은 물어보고,
완벽하지 않더라도 자신이 겪었던거나
시도하고 있는 내용을 공유하기도 하고

May 30 to users

We have begun experimenting with an airflow/zeppelin integration. We use the first paragraph of a note to define dependencies and outputs; names and owners; and schedule for the note. There are utility functions (in scala) available that provide a data catalog for retrieving data sources. These functions return a dataframe and record that note's dependency on a particular data source so that a dag can be constructed between the task that creates the input data and the zeppelin note. There is also a function to provide a dataframe writer that captures the outputs that a note provides. This registers that note as the source for data that is then available in the data catalog for other notebooks to use. This allows one notebook to have a dependency on data created by another notebook.

An airflow dag generator (python code) queries the zeppelin notebook server, looking for the results of the first paragraph for each note. It uses these outputs to construct the DAG between notebooks. It generates a ZeppelinNoteOperator for each note that will use the zeppelin REST api to execute the notebook when the scheduler schedules that task.

We've just started to use this so we don't have a lot of experience with it yet. The biggest caveats to start are:

- * there is no mechanism for test-cases of note code
- * We have to call the notebook server on every iteration of the scheduler/whenever a dag is init'd - we use the cached results if available, but it still requires a round trip to the zeppelin notebook server

Regards,
Erik

Official mailing list

Is it possible to use Apache-Zeppelin's Notebook REST-API to execute retrieve the results?



I've been exploring a bit of Apache Zeppelin and I found the [Notebook REST-API](#).



0 After exploring the documentation, I couldn't understand if it is possible to send a SQL query via Notebook API, execute it in Apache Zeppelin, and retrieve its results via the same channel.



To do so, I'd be using a Spring Boot server to send the queries to the Apache Zeppelin server and to receive the query results returned.

Is it possible to use Zeppelin to achieve this goal?

[java](#) [spring-boot](#) [apache-zeppelin](#) [zeppelin](#)

[share](#) [edit](#) [flag](#)

asked Jul 13 at 15:50



m-oliv

194 ● 7 ● 19

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active

oldest

votes

1 Answer



In Zeppelin, the unit of execution is a [paragraph](#) and a [note](#) contains multiple paragraphs. Thus to run a query,



2 1. create a note



2. create a paragraph



3. execute the paragraph asynchronously (there is a synchronous version as well, but need to consider large query)

Currently, there is no API for updating paragraph text.

(<https://issues.apache.org/jira/browse/ZEPPELIN-1897>) So we need to create new paragraph every time.

[share](#) [edit](#) [delete](#) [flag](#)

answered Jul 14 at 2:05



1ambda

638 ● 5 ● 14

[add a comment](#)

지금 당장은 Zeppelin에 그런 기능이 없다 답변도 도움이 필요한 사람에겐 시간 낭비를 하게 되는것 보다는 유용한 답변이 될 수 있겠죠?

:community.html#mailing-list

Jira issues

Apache Zeppelin의 공식 issue tracking site

- Bug reporting
- Hope & Suggestion
- ...

Jira

Open issues [Switch filter ▾](#)

Order by Priority ↓

- ZEPPELIN-3449 'PyZeppelinContext' object has no attribute '...
- ZEPPELIN-3413 spark 2.3.0 not supported
- ZEPPELIN-3074 Flink Interpreter Error
- ZEPPELIN-978 grunt build fails
- ZEPPELIN-3086 zeppelin 0.6.0 interperter can't dep jars
- ZEPPELIN-2717 Thread BLOCKED after restarting an interpr...
- ZEPPELIN-3203 Mongo Notebook Repo fails to upsert note...
- ZEPPELIN-3087 zeppelin 0.6.0 interperter com Unstable impl...
- ZEPPELIN-3064 Failed tests: InterpreterOutputChangeWatch...
- ZEPPELIN-2891 Impossible to use jdbc interface with presto-j...
- ZEPPELIN-3028 not able to run flink class
- ZEPPELIN-2996 How to set roles and restrict users in Zeppelin
- ZEPPELIN-2941 Unable to access Zeppelin UI HTTP ERRO...
- ZEPPELIN-2911 Issues in running Hive Ubean interpreted tabl...

+ Create issue

ZEPPELIN / ZEPPELIN-3413
spark 2.3.0 not supported

[Edit](#) [Comment](#) [Assign](#) [More ▾](#) [Resolve Issue](#) [Close Issue](#)

View all issues and filters

2 of 1349 ▲ ▼ ↗

Details

Type:	Bug	Status:	OPEN
Priority:	Blocker	Resolution:	Unresolved
Affects Version/s:	0.7.3	Fix Version/s:	None
Component/s:	Interpreters		
Labels:	None		

Description

I am new to Zeppelin, tried executing the tutorial as per zeppelin site, executed in localhost:8080 and i got an error as Spark 2.3.0 not supported. kindly advise

Attachments

Drop files to attach, or browse.

Activity

All [Comments](#) [Work Log](#) [History](#) [Activity](#) [Transitions](#)

Jeff Zhang added a comment - 18/Apr/18 11:07
Spark 2.3.0 is supported by 0.8 which will be released soon

Jean-Francis Roy added a comment - 25/Apr/18 22:01
Is there a release date for Zeppelin 0.8 ?

Randy Kerber added a comment - 07/May/18 07:54
I am not able to build for Spark 2.3.0 with Zeppelin v0.8.0-rc1.

People

Assignee: Unassigned [Assign to me](#)
Reporter: Renjith [Vote for this issue](#)
Votes: 2 [Start watching this issue](#)

Dates

Created: 17/Apr/18 22:41
Updated: 09/May/18 10:58

Agile

[View on Board](#)

HipChat discussions

Confirm access to your HipChat account for more information.

Jira issue

Zeppelin / ZEPPELIN-2368

Option to run all paragraphs *sequentially*

[Edit](#) [Comment](#) [Assign](#) [More ▾](#) [Resolve Issue](#) [Close Issue](#)

Is this a bug? Or am I doing something wrong?

Quoting Lee moon soo

That's expected behavior at the moment. The reason is
Each interpreter has it's own scheduler (either FIFO, Parallel), and run-all just submit all paragraphs into target interpreter's scheduler.
I think we can add feature such as run-all-sequentially.

Activity

All Comments Work Log History Activity Transitions ↑

▼  MurexConsultant added a comment - 07/Apr/17 05:34 

My requirement was just to simply be able to click run-all - and them all run one after the other! Nothing more complex.
Think sequential should just be the default? And then add more complex stuff later.

▼  Ruslan Dautkhanov added a comment - 07/Apr/17 05:49

I would agree sequential should be default and parallel run / tracking dependencies etc as discussed in the user email list (the "more complex stuff") could be added later.

▼  Naman Mishra added a comment - 24/Jul/17 20:02

I propose the following for this requirement:
We can add an additional button ("Run All Sequentially") along with "Run All" on UI. When clicked, the paragraphs will be queued on the server. A thread will read from the queue one-by-one and submit that paragraph to the respective interpreter's scheduler. The next paragraph will be submitted only after the previous one has finished execution (success or failure). This will ensure sequential execution irrespective of type of interpreter used.

Does this sound fine? Lee moon soo Ruslan Dautkhanov

▼  Lee moon soo added a comment - 25/Jul/17 03:09

Naman Mishra Sounds like a plan!

Jira issue

1–50 of 2843 ↗

Columns ▾

T	Patch Info	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated	Due	Votes ↓
+ 1		ZEPPELIN-605	Support Scala 2.11	Luciano Resende	Eric Wasserman	↑	RESOLVED	Fixed	14/Jan/16	10/Aug/16		13
+ 2		ZEPPELIN-193	Kerberos (SPNEGO) Support	Unassigned	Eric Charles	↑	OPEN	Unresolved	01/Aug/15	15/Dec/16		12
↗ 3		ZEPPELIN-385	Read-only mode for zeppelin notebooks, for analysis sharing	Unassigned	Rohit Choudhary	↑	OPEN	Unresolved	03/Nov/15	17/Jan/17	30/Nov/15	11
↗ 4		ZEPPELIN-759	Support for Spark 2.0 (ideally with Scala 2.11)	Lee moon soo	Deenar Toraskar	↑	RESOLVED	Fixed	23/Mar/16	15/Nov/16		11
✉ 5		ZEPPELIN-1236	ZEPPELIN-1337 / Multi-user notebook with user controls support	Unassigned	François Rosière	🚫	RESOLVED	Resolved	27/Jul/16	31/Dec/16		10
🔴 6		ZEPPELIN-87	Data order altered in bar chart	Unassigned	Emmanuelle Raffenne	↑	OPEN	Unresolved	25/May/15	07/Jan/17		9
+ 7		ZEPPELIN-1608	Allow give read permission to 'anonymous' user	Unassigned	Lee moon soo	↑	OPEN	Unresolved	03/Nov/16	25/Jul/17		9
🔴 8		ZEPPELIN-88	Group label truncated when containing periods	Unassigned	Emmanuelle Raffenne	⬇	REOPENED	Unresolved	26/May/15	03/Sep/15		8
↗ 9		ZEPPELIN-1793	Import/export between Zeppelin and Jupyter notebook formats	Igor Drozdov	Alexander Bezzubov	↑	OPEN	Unresolved	13/Dec/16	06/Apr/17		8

▼ Lee moon soo added a comment - 25/Jul/17 03:09

Naman Mishra Sounds like a plan!

(Un)Official SNS (1) Twitter

Apache Zeppelin 의 official Twitter account : [@ApacheZeppelin](#)

(Un)Official

Apache Zeppelin



The image shows the Twitter profile page for Apache Zeppelin (@ApacheZeppelin). The header features a large blue geometric background with the text "Apache Zeppelin" in white. Below the header is a blue circular icon containing a stylized white zeppelin. The main profile area includes the handle "@ApacheZeppelin", a bio link to "zeppelin.apache.org", and a creation date of "가입일: 2015년 9월". It also features a "트윗하기" button and a "내가 이는 팔로워 5명" section with small user icons. On the right side, there's a "트윗" section showing one tweet from Jared Winick (@jaredwinick) about Object Exchange in Spark. To the right of the tweets is a sidebar titled "팔로우 추천" listing other Apache projects like Apache Spark, Apache NiFi, and Apache Kafka, each with a "팔로우" button. At the bottom of the sidebar is a "다른 주소록 연결하기" link.

Apache Zeppelin

@ApacheZeppelin

zeppelin.apache.org

가입일: 2015년 9월

트윗하기

내가 이는 팔로워 5명

사진과 동영상

Powered by Apache Zeppelin

트윗 177

팔로잉 11

팔로워 1,678

마음에 들어요 315

리스트 2

팔로잉

트윗 트윗과 답글 미디어

Apache Zeppelin @ApacheZeppelin · 2월 23일

If you're coming to #strata2018 in San Jose, let me know. We're planning an #apachezeppelin get together. If interested in joining, just dm me.

트윗 번역하기

2 4

Jared Winick @jaredwinick · 2017년 11월 6일

Great feature of @ApacheZeppelin is Object Exchange in the Spark Interp. Scala, NumPy, scikit-learn in 1 notebook

트윗 번역하기

Apache Zeppelin Object Exchange for passing a Da...

Apache Zeppelin Object Exchange for passing a DataFrame of feature vectors from the Scala Spark interpreter to PySpark to get a numpy array

팔로우 추천

Apache Spark @ApacheS... ×

Apache NiFi @apachenifi ×

Apache Kafka @apachek... ×

지인들을 찾아보세요

Gmail에서 연락처 가져오기

다른 주소록 연결하기

ZEPPELIN ON TWITTER

(Un)Of

Tweets by @ApacheZeppelin

 Apache Zeppelin
@ApacheZeppelin

If you're coming to #strata2018 in San Jose, let me know. We're planning an #apachezeppelin get together. If interested in joining, just dm me.

Feb 23, 2018

 Apache Zeppelin Retweeted
Jared Winick
@jaredwinick

Great feature of @ApacheZeppelin is Object Exchange in the Spark Interp. Scala, NumPy, scikit-learn in 1 notebook gist.github.com/jaredwinick/ca...

 Apache Zeppelin Object Exchange for passing a Data...

Apache Zeppelin Object Exchange for passing a DataFrame of feature vectors from the Scala Spark interpreter to PySpark to get a numpy array gist.github.com/jaredwinick/ca...

Nov 6, 2017

 Apache Zeppelin Retweeted
Sandeep Malik
 @_sandeep_malik

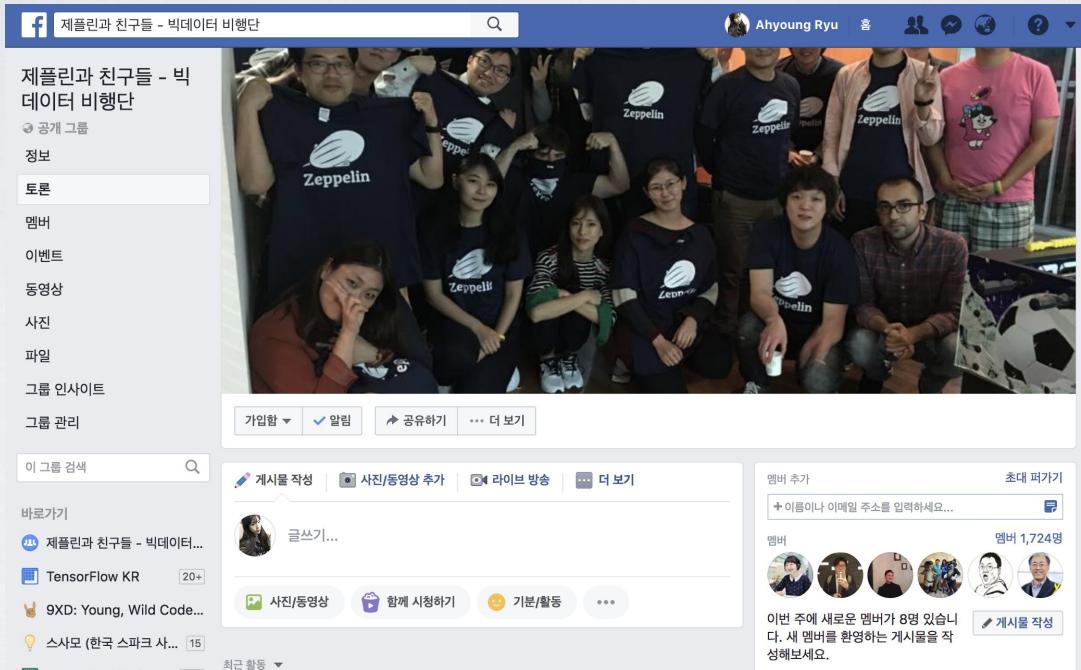
Just published a blog about "Exploring @prestodb and @ApacheZeppelin for fast data analytics and visualization" medium.com/walmartlabs/ex...



Official docs site에서도 피드 확인 가능!

<https://zeppelin.apache.org/#zeppelin-on-twitter>

(Un)Official SNS (2) Korea User Group in Facebook



The screenshot shows the Facebook group page for '제플린과 친구들 - 빅데이터 비행단' (Apache Zeppelin and Friends - Big Data Flight Team). The page has 1,724 members. A large photo of a group of people wearing Zeppelin t-shirts is the cover image. The left sidebar includes links for '제품琳과 친구들 - 빅데이터 비행단' (Public Group), '정보' (Information), '토론' (Discussion), '멤버' (Members), '이벤트' (Events), '동영상' (Videos), '사진' (Photos), '파일' (Files), '그룹 인사이트' (Group Insights), and '그룹 관리' (Group Management). The main content area features a search bar, buttons for '게시물 작성' (Post), '사진/동영상 추가' (Add Photo/Videos), '라이브 방송' (Live Broadcast), and '더 보기' (More). It also includes sections for '멤버 추가' (Add Member), '초대 편하기' (Share Invite), and a list of recent activities.

<https://www.facebook.com/groups/ApacheZeppelinFanKorea/>

(Un)Official

박준성 4월 27일 오후 4:37

안녕하세요. mongodb zeppelin interpreter 에서
zeppelin.interpreter.output.limit 란 항목이 있고 이게 102400 이렇게 되어 있던
데 그래서 데이터 조회를 하니깐 paragraph창에 Output exceeds 102400
Truncated 라고 나오면서 데이터가 중간에 잘리네요. 그래서 interpreter 설정 창에서
102400을 10240000 으로 변경을 해도 이게 적용이 안 되네요. 무엇이 문제일까요?
그리고 102400 이면 0.1KB 인가요?

좋아요 댓글 달기 공유하기

Taejun Kim님, 민경국님 외 3명

민경국 몽고디비와 함께 쓰시는군요 ! 비슷한 질문이 얼마전 있었는데요 ...
기억이 기억이 ... 누구 아시는분 없나요?

좋아요 · 답글 달기 · 2주

민경국 https://zeppelin.apache.org/.../install/configuration.html
요 문서의 ZEPPELIN_WEBSOCKET_MAX_TEXT_MESSAGE_SIZE 값
도 영향을 주는 것으로 기억하는데요. 한번 살짝 올려봐 주세요 ~

Apache Zeppelin 0.7.3 Documentation:
Apache Zeppelin Configuration

ZEPPELIN.APACHE.ORG

좋아요 · 답글 달기 · 미리 보기 삭제 · 2주 · 수정됨

박준성이 답글을 남겼습니다 · 답글 2개

댓글을 입력하세요...

Group in Facebook

<https://www.facebook.com/groups/ApacheZeppelinFanKorea/>

(Un)Official



박준성

4월 27일 오후 4:37

안녕하세요. mongodb zeppelin interpreter에서 zeppelin.interpreter.output.limit 란 항목이 있고 이거 데 그래서 데이터 조회를 하니깐 paragraph창에 Output Truncated 라고 나오면서 데이터가 중간에 잘리네요. 그 102400을 10240000으로 변경을 해도 이게 적용이 안 그리고 102400 이면 0.1KB 인가요?

좋아요

댓글 달기

Taejun Kim님, 민경국님 외 3명



민경국 🌟 몽고디비와 함께 쓰시는군요! 비슷한 질문 기억이 기억이 ... 누구 아시는분 없나요?

좋아요 · 답글 달기 · 2주



민경국 🌟 <https://zeppelin.apache.org/.../insta> 요 문서의 ZEPPELIN_WEBSOCKET_MAX_TEXT도 영향을 주는 것으로 기억하는데요. 한번 살짝 올려

Apache Zeppelin 0.7.3 D
Apache Zeppelin Configuration

ZEPPELIN.APACHE.ORG

좋아요 · 답글 달기 · 미리 보기 삭제 · 2주 · 수정됨

박준성님이 답글을 남겼습니다 · 답글 2개



댓글을 입력하세요...



박준성

4월 26일 오후 12:30

...

안녕하세요.

zeppelin에서 sql문 작성 할때 as 문이 안 되나요?
select item as rename from table 이런 형식으로 작성할 때 rename으로 결과가 나와야 할 것 같은데 item으로 column title이 나오네요.

다른 sql tool에서는 rename으로 나오는데요.
이거 해결 할 수 있는 방법이 있나요?... [더 보기](#)

좋아요

댓글 달기

공유하기

Taejun Kim님, 이태현님 외 3명

댓글 3개 더 보기



민경국 🌟 사용한 sql이나 환경도 살짝 보여주시면 도움이 될 것 같습니다 ~

좋아요 · 답글 달기 · 2주

1

박준성님이 답글을 남겼습니다 · 답글 1개



이상원 제 경험으로는 avg, sum, count, concat 등의 function을 쓰면 aliasing이 잘 되는데 table column 이름을 그대로 쓰는 케이스는 aliasing이 안되더라구요. 그래서 workaround으로 select concat("", t.column) as alias 해서 썼습니다.

좋아요 · 답글 달기 · 2주 · 수정됨

3

박준성님이 답글을 남겼습니다 · 답글 1개



댓글을 입력하세요...



(Un)Official ↴

강민구님이 Moon Soo Lee님과 샌프란시스코에 있습니다. ···

관리자 · 4월 30일 오후 2:40

샌프란 여행중에 (무려 몇시간 전에 미국 도착하신) 문수님 만나서 식사하고 구경도 하고 왔습니다 ㅎ ㅎ ㅎ 덕분에 맛있는것도 먹고 이쁜 야경도 구경했네요! 기꺼이 시간 내주신 문수님 정말 감사합니당 ㅎ ㅎ ㅎ



좋아요 댓글 달기 공유하기

회원님, 민경국님, 이민석님 외 24명

민경국 ★ 라이브는 언제하나요 ㅎ ㅎ (페이스북 페이지 관리자용 앱을 깔면 ~ HD로 된다고 합니다 ㅋㅋㅋ)

좋아요 · 답글 달기 · 2주

댓글을 입력하세요...

in Facebook

[n/groups/ApacheZeppelinFanKorea/](#)

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Confessions of a Hungry Ape

The evolutionary advantages of eating meat

Adrian V. Cole

Apr 5 · ★ 11 min read

A new prime suspect for depression

And the hunt for its neural causes

Mark Humphries in *The Spike*

May 1 · ★ 7 min read

The Market Is Wrong About Your Problems

What Voltaire can teach us about the va...

Luke Kanies

Apr 27 · ★ 4 min read

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Sulagna Misra

May 16 · ★ 7 min read

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TECHNOLOGY *Popular topic*

Yes, You Should Delete Facebook

How we respond to Facebook today will inform the startups of tomorrow

Nat Eliason

Apr 9 · ★ 9 min read

New from
your network

JAVASCRIPT *Suggested topic*

Here are examples of everything new in ECMAScript 2016, 2017, and 2018

It's hard to keep track of what's new in JavaScript (ECMAScript). And it's even harder to find useful code examples.

rjaraodv in freeCodeCamp

Apr 3 · 16 min read

N Titus, the Netflix container management platform, is now open source
Netflix Technology Blog in Netflix...

N Announcing the Netflix Research Website
Netflix Technology Blog in Netflix...

N Netflixにおける日本語字幕の導入
Netflix Technology Blog in Netflix...

PROGRAMMING *Suggested topic*

Goodbye, Object Oriented Programming

I've been programming in Object Oriented languages for decades. The first OO language I used was C++ and then Smalltalk and finally .NET...

<https://medium.com/>



Apache Zeppelin Stories

A collection of community created content



ZEPL

Jun 20, 2017

Launch Zeppelin in 1 minute with Docker

Nice writeup by kun (<https://github.com/1ambda>)

<http://bit.ly/2tGjOM8>



Apache Zeppelin Stories

All things Apache Zeppelin written or created by the Apache Zeppelin community—blogs, videos, manuals, etc. Let us know if you would like to be added as a writer to this publication.

[More information](#)

FOLLOWERS
254

ELSEWHERE



Moon

Jun 20, 2017 · 1 min read

Apache Zeppelin and ZEPL on AWS EMR

AWS EMR provides convenient way to Spin up Zeppelin + Spark cluster. However, there's some limitations.

<https://medium.com/apache-zeppelin-stories>



APACHE ZEPPELIN STORIES

Launch Zeppelin in 1 minute with Docker

Nice writeup by kun (<https://github.com/1ambda>)<http://bit.ly/2tGjOM8>Launch Zeppelin in 1 minute with Docker was originally published in Apache Zeppelin...

ZEPL · Published on June 20th, 2017

Apache Zeppelin and ZEPL on AWS EMR

AWS EMR provides convenient way to Spin up Zeppelin + Spark cluster. However, there's some limitations.Lose all notebook on cluster restartCan't acces...

Moon · Published on June 20th, 2017

Official Docker release of Apache Zeppelin — Finally!

From one of our Apache Zeppelin contributors——Hi, users.A few months ago the community started to create official docker image for Zeppelin. As of ...

ZEPL · Published on June 17th, 2017

Exchange variable between Spark and Pyspark in Apache Zepp...

Did you know you can exchange variable between Spark(scala) and Pyspark(python) in Apache Zeppelin?To know more about object exchange between Scala an...

Moon · Published on June 10th, 2017

Sharing Zeppelin notebook with your Team through ZEPL

If you have multiple instances of Zeppelin in the team and wanted to share it with fine grained access control, please take a look article below<https://...>

Moon · Published on June 8th, 2017

<https://zeppelin.apache.org/#apache-zeppelin-stories>

이 외에도..

- Stackoverflow : <http://stackoverflow.com/questions/tagged/apache-zeppelin>
- Slideshare : <https://www.slideshare.net/search/slideshow?searchfrom=header&q=apache+zeppelin>

Q & A

감사합니다 :)