Writing User Defined Functions

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Overview

Grunt Shell

User Defined Functions

Piggy Bank

Sharpen Pig Latin Skills

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Pig Editor

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Sandbox = Pig Editor

Pig Grunt Shell

Interactive shell that allows users to enter Pig Latin scripts & interact with HDFS

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How to Access

When using Pig locally or sandboxed version

Use: $pig –x local

When using Pig for multiple nodes

Use: $pig –x mapreduce

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Basic Grunt Shell Commands

Help	List Directory Contents	Change Directory
>help	**>ls**	**>cd**

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Grunt Shell

Command Prompt

SSH into Sandbox

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Why Do This?

```
weather_raw = LOAD '/user/hue/weather.csv' USING
PigStorage(',') AS (id:chararray, name:chararray,
date:datetime, day_high:int, day_low:int);


X = FOREACH weather_raw GENERATE day_high * 1.8 +32;


DUMP X;
```

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When We Can Do This!

```
weather_raw = LOAD '/user/hue/weather.csv' USING
PigStorage(',') AS (id:chararray, name:chararray,
date:datetime, day_high:int, day_low:int);


X = FOREACH weather_raw GENERATE ToFehrenheit(high_temp );


DUMP X;
```

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Pig UDF

User defined functions are custom code written to specify custom processing in Pig Latin.

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UDF Languages

- Java
- Python
- JavaScript
- Ruby
- Groovy

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UDF Demo

Sample UDF

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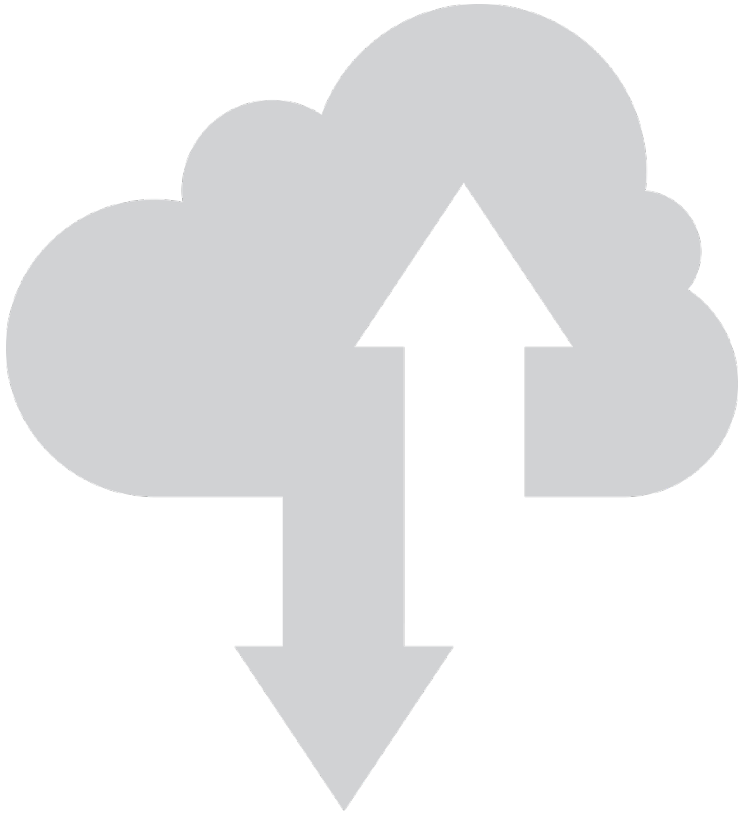
Piggy Bank



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Piggy Bank

Pig.apache.org

SVN

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Congratulations

Basic Pig Latin

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Keep Learning

- Join the mailing list
  - user-subscribe@pig.apache.org
- Documentation is your Friend
- Answer Questions on Discussion Post
- Commit to Piggy Bank
- Contribute to the Pig Project

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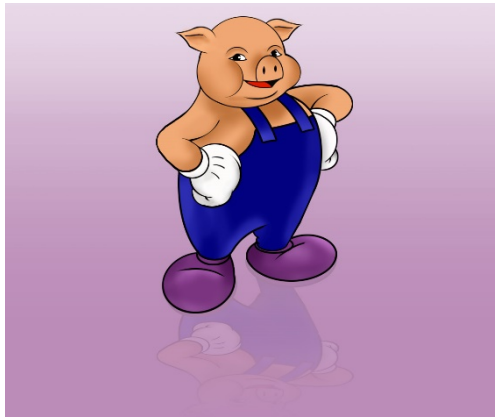
Summary

That's all folks.



Grunt Shell Basics

Looked at Piggy Bank

Developed User Defined Function

How to get Involved

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