

Groovy Script and Freeplane

Spoken Tutorial Project

<https://www.spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Rani Parvathy

IIT Bombay

26 July 2020



Learning Objectives



Learning Objectives

- ▶ **Learn about Groovy script**



Learning Objectives

- ▶ **Learn about Groovy script**
- ▶ **Write Groovy scripts**



Learning Objectives

- ▶ **Learn about Groovy script**
- ▶ **Write Groovy scripts**
- ▶ **Add the Groovy scripts to the Freeplane scripts folder**



Learning Objectives

- ▶ **Learn about Groovy script**
- ▶ **Write Groovy scripts**
- ▶ **Add the Groovy scripts to the Freeplane scripts folder**
- ▶ **Run the script in the Freeplane interface**



Learning Objectives



Learning Objectives

- ▶ **Add child nodes to a map using the script**



Learning Objectives

- ▶ **Add child nodes to a map using the script**
- ▶ **Add a hyperlink to a node using script**



System Requirements



System Requirements

- ▶ **Ubuntu Linux v16.04 OS**



System Requirements

- ▶ **Ubuntu Linux v16.04 OS**
- ▶ **Freeplane v1.7.10**



System Requirements

- ▶ **Ubuntu Linux v16.04 OS**
- ▶ **Freeplane v1.7.10**
- ▶ **Firefox web browser v78**



System Requirements

- ▶ **Ubuntu Linux v16.04 OS**
- ▶ **Freeplane v1.7.10**
- ▶ **Firefox web browser v78**
- ▶ **A working Internet connection**



Pre-requisites



Pre-requisites

- ▶ **Learner must be familiar with the Freeplane interface**



Pre-requisites

- ▶ **Learner must be familiar with the Freeplane interface**
- ▶ **For pre-requisite tutorials, please visit this site**
<https://www.spoken-tutorial.org>



Download and Example Link



Download and Example Link

- ▶ Link for the Groovy website is,
<https://groovy-lang.org/>



Download and Example Link

- ▶ Link for the Groovy website is, <https://groovy-lang.org/>
- ▶ Link for simple example scripts for use in Freeplane is <https://www.freeplane.org/wiki/index.php/Scripting>



Possible Uses



Possible Uses

Teachers can extend the Groovy scripting method to import,

- ▶ **Student names**



Possible Uses

Teachers can extend the Groovy scripting method to import,

- ▶ **Student names**
- ▶ **Marks and grades**



Possible Uses

Teachers can extend the Groovy scripting method to import,

- ▶ **Student names**
- ▶ **Marks and grades**
- ▶ **To collate results**



Groovy



Groovy

- ▶ **Groovy is an object oriented programming language based on Java platform**



- ▶ **Groovy is an object oriented programming language based on Java platform**
- ▶ **Groovy scripts can be executed in the nodes in Freeplane**



Adding Student Names



Adding Student Names

- ▶ A teacher want to add 20 students as 20 child nodes to a language class



Adding Student Names

- ▶ **A teacher want to add 20 students as 20 child nodes to a language class**
- ▶ **They need to be named as student 1 to student 20**



Scripts folder



Scripts folder

- ▶ **We must close and reopen Freeplane for the scripts folder to be read**



Scripts folder

- ▶ **We must close and reopen Freeplane for the scripts folder to be read**
- ▶ **Then, the newly added script will be read when Freeplane starts**



Summary



Summary

- ▶ **Learned about Groovy script**
- ▶ **Wrote Groovy scripts**
- ▶ **Added the Groovy scripts to the Freeplane scripts folder**



Summary



Summary

- ▶ **Executed the scripts in the Freeplane interface to add**
 - ▶ **Child nodes**
 - ▶ **Hyperlink to a node**



Assignment



Assignment

- ▶ **Write a Groovy script of your choice and execute it in Freeplane**



About the Spoken Tutorial Project

- ▶ Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project



About the Spoken Tutorial Project

- ▶ Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project
- ▶ If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to contact@spoken-tutorial.org



Forum questions

- ▶ Questions in **THIS Spoken Tutorial?**
- ▶ Visit <https://forums.spoken-tutorial.org>
- ▶ Choose the minute and second where you have the question
- ▶ Explain your question briefly
- ▶ The Spoken Tutorial project will ensure an answer

You will have to register to ask questions



Acknowledgements

Spoken Tutorial Project is supported by

- ▶ **National Mission on Education through ICT (NMEICT)**
- ▶ **Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)**

MHRD, Government of India

