Creating Mind Maps using Freemind

Dr. Astha Saxena

Consultant, CIET, NCERT

Theoretical Basis of Mind Mapping & Concept mapping

- Jean Piaget's theory of Individual Constructivism (Piaget, 1954, 1963, 1970)emphasized the role of 'schema' in children's mind to understand a particular concept

- **'Schema' refers to the concepts or basic structures for organizing information which form the mental schemes of identification and understanding a given phenomenon.**

- The processes of assimilation and accomodation further refine and rebuild the schema to make it more complete and complex

- **Schemas could be personal or common**

Theoretical Basis of Mind Mapping & Concept mapping

- According to Information processing theoretical model, information is retained for a longer time if it is presented in an organized way to the learners.

- **Mind maps and concept maps help in better visual organization of the content and conceptual details and help in retention of information.**

- Jerome Bruner's Discovery Learning approach (1961), also emphasized concept learning and development of thinking where concept maps and mind maps can serve as learning aids

About Mind-Maps

- Mind-map is a diagram to visually organize and present information

- **There is usually one central and big idea at the center of the mind map**

- The related ideas, concepts, terms, examples can be connected to this central idea in a logical manner

- **A mind-map can be drawn simply or could also be branched for connecting concepts, sub-concepts, related definitions, ideas, etc.**

- Mind maps usually acquire a radial hierarchy

Uses of Mind Maps

Mind maps for Teachers

- For organizing lesson and lesson planning
- **For preparing teaching notes**
- For concept building in a stage-wise manner
- **As a tool to assess learners on their learning**
- Identify learners' misconceptions and alternative frameworks
- **Can be used as an active learning & collaborative tool**

Uses of Mind Maps

Mind maps for Students

- As a self-learning tool
- **Understanding difficult concepts by breaking them into simpler sub-concepts and linking with the big idea**
- Understand the gradation in a concept and how one simple concept is linked to a complex concept
- **Build a learning log and revise for later use**
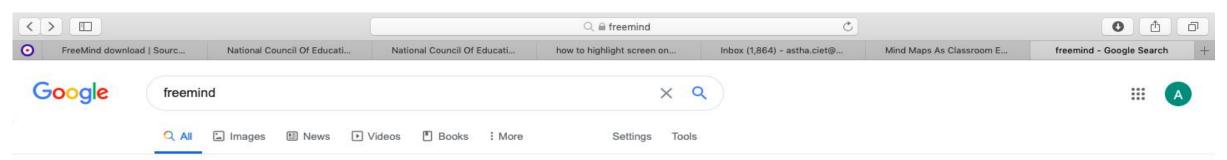- Self-assessing one's own learning

Research on Mind Maps

- Studies have found positive effects of mind mapping on students' academic achievement, attitude and retention (Batdi, 2015).

- **Mind maps help in supporting and enhancing learning along with other visualization formats such as concept maps, conceptual diagrams and visual metaphors (Eppler, 2006).**

- A positive correlation between students' mind maps and their scores has also been proved by some studies (Mchmet,1999).

- **Knowledge maps or mind maps help in scaffolding learning and building conceptual understanding (O'Donnell et al., 2002)**

Freemind: a FOSS tool

- Freemind application is written in Java and is licensed under GNU, General Public License
- **The tool can be downloaded on any OS such as Windows, Mac OS, Linux, etc.**
- The tool can be searched on any browser and can be downloaded easily

< > ⬚   Q 🔒 freemind   ↻   ⬇ ⬆ ⬜

⦿   FreeMind download | Sourc...   National Council Of Educati...   National Council Of Educati...   how to highlight screen on...   Inbox (1,864) - astha.ciet@...   Mind Maps As Classroom E...   freemind - Google Search   +

Google

freemind   ✕   Q   ⦂⦂⦂   A

Q All   🖼 Images   📰 News   ▷ Videos   📖 Books   ⋮ More   Settings   Tools

About 41,00,000 results (0.47 seconds)

freemind.sourceforge.net › wiki › index.php › Main_P... ▾
FreeMind: Main Page
Feb 11, 2016 - **FreeMind** is a premier **free mind**-mapping software written in Java. The recent development has hopefully turned it into high productivity tool.
Download · Alternatives to FreeMind · Freemind Collaboration · Mind map gallery

sourceforge.net › ... › To-Do Lists ▾
FreeMind download | SourceForge.net
Dec 11, 2019 - Download **FreeMind** for free. A premier mind-mapping software written in Java. A mind mapper, and at the same time an easy-to-operate ...
★★★★★ Rating: 4.8 - 252 votes - Free - Multimedia
Download · FreeMind - Browse /freemind ... · Freemind-browser · Freemind-unstable

freemind.sourceforge.net › wiki › index.php › Download ▾
Download - FreeMind
Aug 17, 2014 - Installing **FreeMind**. **FreeMind** is written in Java, so it will run on almost any system with a Java runtime environment. In order to make things ...
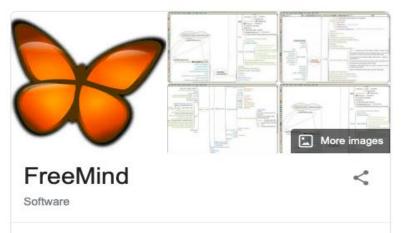Installing FreeMind · Download
You've visited this page 3 times. Last visit: 22/5/20

sourceforge.net › ... › To-Do Lists ▾
Download FreeMind from SourceForge.net
FreeMind Overview. A premier mind-mapping software written in Java. A mind mapper, and at the same time an easy-to-operate hierarchical ...

en.wikipedia.org › wiki › FreeMind ▾
FreeMind - Wikipedia

FreeMind
Software

More images

FreeMind is a free mind mapping application written in Java. FreeMind is licensed under the GNU General Public License Version 2. It provides extensive export capabilities. It runs on Microsoft Windows, Linux, and macOS via the Java Runtime Environment. Wikipedia

License: GNU GPL

Developer(s): Jörg Müller, Daniel Polansky, Petr Novak, Christian Foltin, Dimitri Polivaev, et al

Stable release: FreeMind 1.0.1 / April 12, 2014; 6 years ago

Platform: Java

Programming language: Java
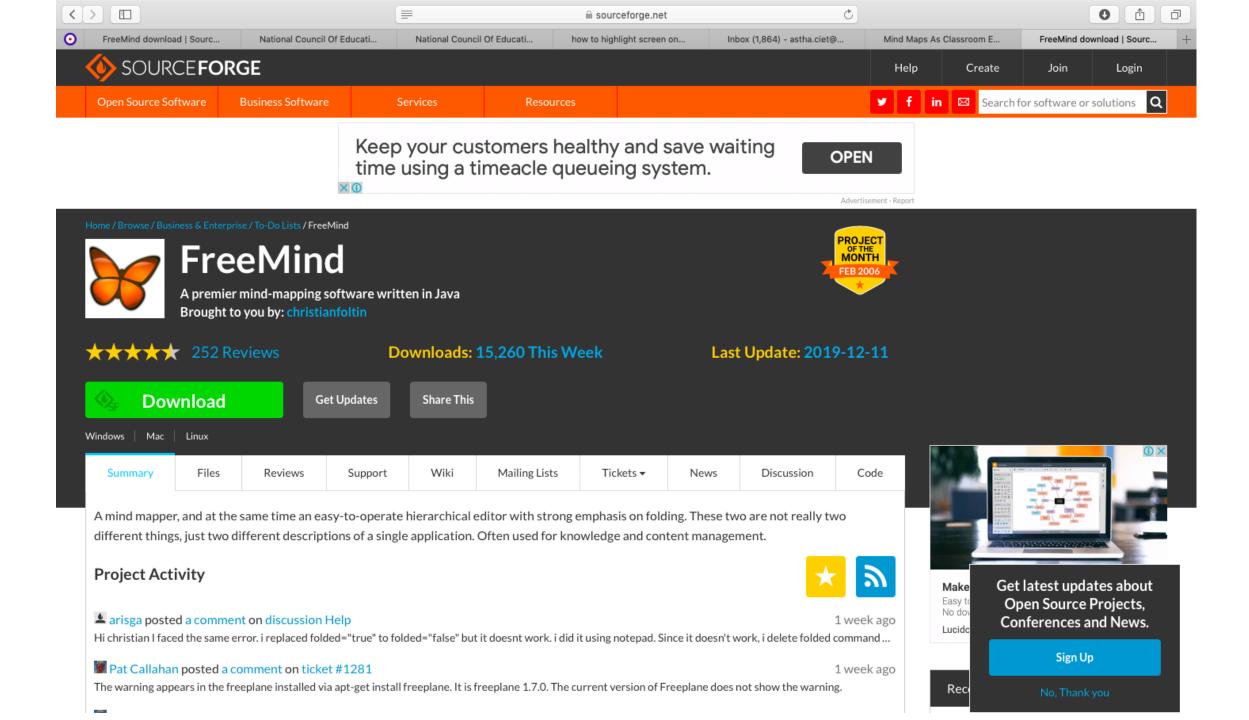
People also search for
View 15+ more

page   discussion   view source   history

Download

The latest stable release of FreeMind is 1.0.0. Downloading and installation instructions are given below.

Contents [hide]

Installing FreeMind

FreeMind is written in Java, so it will run on almost any system with a Java runtime environment.

In order to make things easier for you, we've prepared installers for the most common desktop environments: Windows, Linux and Macintosh OS X. You may choose a minimum install that gives you only the basic FreeMind package or a maximum install, which includes plugins for Scalable Vector Graphics (SVG), Portable Document Format (PDF), reminders and help files.

System requirements

Java Runtime Environment 1.6 or later. You can find a FreeMind installer including java here ⤤ or download Sun's Java from here ⤤.

Step-by-step overview

1. Install Java Runtime Environment if you do not have it.
2. Choose a FreeMind installation file by operating system.
3. Download the chosen installation file.
4. Install FreeMind.

Download

Choose among the following binaries of the current **FreeMind 1.0.1**, depending on your operating system:

OS	Download	Size (MB)	Note
MS Windows	Windows Installer Min ⤤	29	A smaller version without SVG export and PDF export.
MS Windows	Windows Installer Max ⤤	38	All-inclusive version
Mac OS X	MAC OS X ⤤	92	All-inclusive version. **Information for Mac Maverick (10.9) and Mountain Lion (10.8) Users:** After the download, the operating system reports the application to be broken.

Sidebar

freemind
- Site Map
- Main Page
- Downloads
- Asked questions
- Screenshots
- Documentation
- Accessories
- Scripting
- Plugins
- Linux
- Development
- Marketing
- Essays
- Stuff

search

Go   Search

toolbox
- What links here
- Related changes
- Special pages
- Printable version
- Permanent link

SOURCE FORGE

Help   Create   Join   Login

Open Source Software   Business Software   Services   Resources

Search for software or solutions

Home / Browse / Business & Enterprise / To-Do Lists / FreeMind

FreeMind

A premier mind-mapping software written in Java
Brought to you by: **christianfoltin**

PROJECT OF THE MONTH
FEB 2006

★★★★☆   **252 Reviews**   **Downloads: 15,260 This Week**   **Last Update: 2019-12-11**

Download   Get Updates   Share This

Windows | Mac | Linux

| Summary | Files | Reviews | Support | Wiki | Mailing Lists | Tickets ▾ | News | Discussion | Code |

A mind mapper, and at the same time an easy-to-operate hierarchical editor with strong emphasis on folding. These two are not really two different things, just two different descriptions of a single application. Often used for knowledge and content management.

Project Activity

⛄ **arisga** posted **a comment** on **discussion Help**   1 week ago
Hi christian I faced the same error. i replaced folded="true" to folded="false" but it doesnt work. i did it using notepad. Since it doesn't work, i delete folded command ...

👤 **Pat Callahan** posted **a comment** on **ticket #1281**   1 week ago
The warning appears in the freeplane installed via apt-get install freeplane. It is freeplane 1.7.0. The current version of Freeplane does not show the warning.

Mind Map on Microbes

- **useful bacteria**
  - Lactobacillus — helps in curdling of milk
  - Rhizobium — soil bacteria that fixes Nitrogen
  - Decomposing bacteria — convert organic waste into manure
- **Harmful bacteria**
  - Streptococcus — causes Pneumonia
  - Salmonella — causes food poisoning
  - Helicobacter — causes stomach inflammation (gastritis)
  - Mycobacterium — causes Tuberculosis
- coccus or spherical shape
- spiral shaped
- bacillus or rod-shaped

Bacteria
- single-celled organisms

useful Fungi
- Penicillin — helps in preparation of antibiotics and curing diseases
- Yeast — used in fermentation process for breads and cakes

Harmful Fungi (cause diseases in plants, animals & humans)
- Aspergillus
- Fusarium
- Alternaria
- Mucor

Fungi

Microorganisms/Microbes

Protozoa
- harmful protozoans — E.g. Plasmodium (causes Malaria)
- useful protozoans — E.g. Zooplanktons which form a diet for blue Whale

Algae
- useful Algae — Blue-green algae
- harmful algae — Algal blooms on water bodies

Viruses
- they are different from other microorganisms
- they can thrive only inside a host
- they are mostly harmful and cause diseases
- can cause common cold, influenza, polio, chicken pox
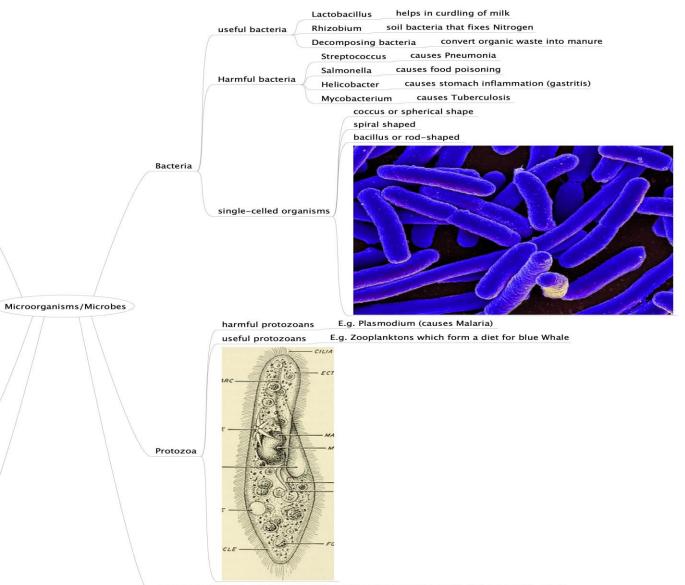
organisms that can only be seen with a microscope, could be unicellular or multi-cellular

References

- Veli Batdi (2015) A Meta-analysis Study of Mind Mapping Techniques and Traditional Learning Methods, The Anthropologist, 20:1-2, 62-68, DOI: 10.1080/09720073.2015.11891724

- John W. Budd (2004) Mind Maps As Classroom Exercises, The Journal of Economic Education, 35:1,35-46, DOI: 10.3200/JECE.35.1.35-46

- Eppler, M. J. (2006). A Comparison between Concept Maps, Mind Maps, Conceptual Diagrams, and Visual Metaphors as Complementary Tools for Knowledge Construction and Sharing. *Information Visualization*, *5*(3), 202–210. https://doi.org/10.1057/palgrave.ivs.9500131

- Bahar, Mchmet (1999) *Investigation of biology students' cognitive structure through word association tests, mind maps and structural communication grids.*PhD thesis, University of Glasgow.

- O'Donnell, A., Dansereau, D., & Hall, R. (2002). Knowledge Maps as Scaffolds for Cognitive Processing. *Educational Psychology Review, 14*(1), 71-86. Retrieved May 23, 2020, from www.jstor.org/stable/23363489

THANK YOU ALL