# open.michigan

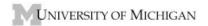
Author(s): University of Michigan School of Information, 2011

License: Unless otherwise noted, this material is made available under the terms of the Creative Commons Attribution–Non-commercial–Share Alike 3.0 License: http://creativecommons.org/licenses/by-nc-sa/3.0

We have reviewed this material in accordance with U.S. Copyright Law and have tried to maximize your ability to use, share, and adapt it. The citation key on the following slide provides information about how you may share and adapt this material.

Copyright holders of content included in this material should contact **open.michigan@umich.edu** with any questions, corrections, or clarification regarding the use of content.

For more information about how to cite these materials visit http://open.umich.edu/education/about/terms-of-use.





## MultiMice in Education

SI 575: Community Informatics Seminar November 19, 2010

# Summary

Using multiple mice on one computer is a relatively new idea, yet a simple and cost effective one. From a small group of children gathered around a music game after school in a developing country, to a teacher in the United States who embeds questions in her PowerPoint presentations, this technology has the potential for widespread use and misuse. Understanding how to apply it effectively is challenging. Software must be developed and chosen carefully, keeping in mind both the learning goals and the social interaction that the program facilitates.

#### Resources

- Try out the games yourself:
  - http://www.microsoft.com/multipoint/mouse-sdk/showcase.aspx
- Download the Microsoft PowerPoint extension:
  - http://www.microsoft.com/multipoint/mouse-mischief/default.aspx
- Download the Microsoft MultiPoint Mouse Software Development Kit (SDK):
  - http://www.microsoft.com/multipoint/mouse-sdk/default.aspx

## References

- "Amazing Concert Play" by AmazingEdu. Retrieved from http://www.amazingedu.com/amazingconcert/
- Infante, C., Weitz, J., Reyes, T., Nussbaum, M., Gómez, F., & Radovic, D. (2010). Co-located collaborative learning video game with single display groupware. *Interactive Learning Environments*, *18*(2), 177-195. Retrieved from http://dx.doi.org/10.1080/10494820802489339
- Microsoft. (2010). *Microsoft Mouse Mischief*. Retrieved from http://www.microsoft.com/multipoint/mouse-mischief/lessons.aspx
- Microsoft. (2010). *Top ten tips for using Microsoft Mouse Mischief*. Retrieved from http://download.microsoft.com/download/7/6/5/7658AF74-192E-42C4-A1E7-197A6E9D84A5/Top Ten Tips Mouse Mischief En-US.pdf
- "MultiMath in action." by sunilgarg CC:2.0G-NC-SA. Retrieved from http://www.flickr.com/photos/sunilonln/3503838712/
- Pawar, U., Pal, J., & Toyama, K. (2006). *Multiple mice for computers in education in developing countries*. Retrieved from http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=04085516
- Stanton, D., & Neale, H. R. (2003). The effects of multiple mice on children's talk and interaction. *Journal of Computer Assisted Learning*, 19(2), 229-238.

# **Complete References**

- "Amazing Concert Play" by AmazingEdu. Retrieved from
  - http://www.amazingedu.com/amazingconcert/
- "Aprender" by MHV CC:3.0-SA. Retrieved from\_
  - http://wikimediafoundation.org/wiki/File:Aprender.JPG
- "Bun Scrambling Competition 2010" by Tksteven CC:3.0U-SA. Retrieved from http://wikimediafoundation.org/wiki/File:Bun Scrambling Competition 2010.JPG
- "Catalan Climbers" by Steve Jurvetson CC:2.0G. Retrieved from http://wikimediafoundation.org/wiki/File:Catalan\_Climbers.jpg
- "Eyes Wide" by sunilgarg CC:2.0G-NC-SA. Retrieved from
  - http://www.flickr.com/photos/sunilonln/3503027923/in/photostream/
- Infante, C., Weitz, J., Reyes, T., Nussbaum, M., Gómez, F., & Radovic, D. (2010). Co-located collaborative learning video game with single display groupware. *Interactive Learning Environments*, *18*(2), 177-195. Retrieved from http://dx.doi.org/10.1080/10494820802489339
- "Keypads" by sunilgarg CC:2.0G-NC-SA. Retrieved from http://www.flickr.com/photos/sunilonln/3503837728/
- "Lightmatter Lab Mice" by Aaron Logan CC:1.0G. Retrieved from http://upload.wikimedia.org/wikipedia/commons/7/77/Lightmatter\_lab\_mice.jpg
- "Mouth Stick" by cobalt123 CC:2.0G-NC-SA. Retrieved from http://www.flickr.com/photos/cobalt/2461803744/
- Microsoft. (2010). Microsoft Mouse Mischief. Retrieved from
- http://www.microsoft.com/multipoint/mouse-mischief/lessons.aspx

  Microsoft. (2010). Top ten tips for using Microsoft Mouse Mischief. Retrieved from
  - http://download.microsoft.com/download/7/6/5/7658AF74-192E-42C4-A1E7-197A6E9D84A5/Top\_Ten\_Tips\_Mouse\_Mischief\_En-US.pdf
- "MRI Brain" by NASA Public Domain. Retrieved from http://wikimediafoundation.org/wiki/File:MRI\_brain.jpg
- "MultiMath in action." by sunilgarg CC:2.0G-NC-SA. Retrieved from http://www.flickr.com/photos/sunilonln/3503838712/
- Pawar, U., Pal, J., & Toyama, K. (2006). *Multiple mice for computers in education in developing countries*. Retrieved from <a href="http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=04085516">http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=04085516</a>
- "Olympische Sp. 1904" by Unknown Copyright Expired. Retrieved from

http://wikimediafoundation.org/wiki/File:Olympische\_Sp.\_1904.jpg

- Stanton, D., & Neale, H. R. (2003). The effects of multiple mice on children's talk and interaction. *Journal of Computer AssistedLearning*, 19(2), 229-238.
- "TiddlyWiki in a JAWS Screen Reader" by psd CC:2.0G. Retrieved from http://www.flickr.com/photos/psd/4476722372/
- "Varios ratones" by emijrp GNU:FDL. Retrieved from
  - http://commons.wikimedia.org/wiki/File:Varios\_ratones.jpg
- "Web 2.0 Map" by Markus Angermeier and Luca Cremonini CC:2.5G-SA. Retrieved from http://wikimediafoundation.org/wiki/File:Web\_2.0\_Map.svg
- "XO-Beta1\_mikemcgregor-2" by Mike McGregor CC:2.5G. Retrieved from http://commons.wikimedia.org/wiki/File:XO-Beta1-mikemcgregor-2.jpg