

| Technical Specifications                                       | Bubbl.us         | Cmap Tools | Mindmeister   | Mindomo          | Xmind |
|--|------------------|------------|---|------------------|-------|
| <b>FUNCTIONALITY (32)</b>                                      | 2.13             | 2.5        | 2.88  | 3.56             | 3.44  |
| Insert topics/subtopics  | Y                | Y          | Y   | Y                | Y     |
| Topic box formatting (i.e. shape, color, placement, size, etc) | Y (color only)   | Y          | Y   | Y                | Y     |
| Floating topics  | Y                | Y          | Y   | Y                | Y     |
| Boundary lines   | N                | N          | Y (limited)   | Y                | Y     |
| Relationship lines   | Y                | Y          | N   | Y                | Y     |
| Relationship labels  | Y                | Y          | N   | Y                | Y     |
| Line formatting  | Y (arrows only)  | Y          | N   | Y                | Y     |
| Icons/Markers  | N                | N          | Y   | Y                | Y     |
| Add notes, comments, or text                                   | N                | Y          | Y   | Y                | Y     |
| Add docs or multimedia   | Y*               | Y          | Y (from web is free, uploading/integrations is premium) | Y                | Y     |
| Edit Text (i.e. edit, color, font, etc.)                       | Y                | Y          | Y   | Y                | Y     |
| Select or Lasso Tool/Function                                  | Y                | Y          | Y   | Y                | Y     |
| Copy   | Y                | Y          | Y   | Y                | Y     |
| Paste  | Y                | Y          | Y   | Y                | Y     |
| Cut  | Y                | Y          | Y   | Y                | Y     |
| Undo   | Y                | Y          | Y   | Y                | Y     |
| Redo   | Y                | Y          | Y   | Y                | Y     |
| Select/Clear All   | N                | Y          | Y   | Y                | Y     |
| Zoom In & Out  | Y                | N          | Y   | Y                | Y     |
| Presentation Capability  | Y                | N          | Y   | Y                | Y*    |
| Templates  | N                | N          | Y   | Y                | Y     |
| Themes   | N                | Y          | Y   | Y                | Y     |
| Keyboard Shortcuts   | Y                | N          | Y   | Y                | Y     |
| Right Click Menus  | N                | Y          | Y   | Y                | Y     |
| Adjustable Map Size  | N                | N          | Y   | Y                | Y     |
| Save Maps  | Y (limited to 3) | Y          | Y (limited to 3)  | Y (limited to 3) | Y     |
| Map Management (i.e. organization, searchable, etc.)           | Y                | Y          | Y   | Y                | Y     |
| Audio Notes  | N                | N          | N   | Y*               | Y*    |
| Supports LaTeX   | N                | N          | N   | N                | N     |
| Tasks/Due Dates  | N                | N          | Y*  | Y                | Y*    |
| Assignments  | N                | N          | N   | Y*               | N     |
| Screencast   | N                | N          | N   | N                | N     |

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|--|-----------------|---------------------|---|--|---|
| <b>MAPPING TOOLS (4)</b>   | 2               | 1                   | 2   | 4                                      | 2.5                                       |
| Mind Mapping   | Y               | N                   | Y   | Y                                      | Y   |
| Concept Mapping  | Y               | Y                   | N   | Y                                      | Y   |
| Outlining  | N               | N                   | N   | Y                                      | N   |
| Task/To-Do List  | N               | N                   | Y   | Y                                      | Y*  |
| <b>COLLABORATIVE TOOLS (12)</b>  | 1               | 1.5                 | 3.17  | 2.83                                   | 1.17                                      |
| Group Messaging  | N               | N                   | Y*  | Y (not functional with mobile devices) | N   |
| Video Chat   | N               | N                   | Y* (integrated with Google Hangouts)                        | N                                      | N   |
| Audio Chat   | N               | N                   | N   | N                                      | N   |
| Screen Sharing   | N               | N                   | Y (can broadcast slideshow to any collaborators on the map) | N                                      | N   |
| Notifications (i.e. when changes are made)                                     | N               | N                   | Y   | Y                                      | N   |
| Sharing (i.e. email, public link, embedding, social media, etc.)               | Y               | Y                   | Y   | Y                                      | Y (collaborative sharing is PRO)          |
| Track Changes  | N               | N                   | Y   | Y                                      | Y   |
| Revision History   | N               | N                   | Y   | Y                                      | Y (limited to saved versions)             |
| Real-Time Edits  | N               | Y (desktop version) | Y   | Y                                      | N   |
| Multi-User Edits   | Y               | Y                   | Y   | Y                                      | N   |
| Comments   | N               | Y                   | Y   | Y                                      | Y   |
| Security/Privacy (i.e. guest, collaborator, viewer, commenter, password, etc.) | Y               | Y                   | Y   | Y                                      | Y (but unable to share for collaboration) |
| <b>OS COMPATIBILITY (4)</b>  | 4               | 3                   | 4   | 4                                      | 3   |
| Microsoft  | Y               | Y                   | Y   | Y                                      | Y   |
| Android  | Y               | N                   | Y   | Y                                      | N   |
| iOS  | Y               | Y                   | Y   | Y                                      | Y   |
| Linux  | Y               | Y                   | Y   | Y                                      | Y   |

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|-----------------------------------|-----------------|-------------------|--------------------|-------------------------------|----------------------------------|
| <b>USABILITY (7)</b>              | 4               | 2.29              | 4                  | 3.71                          | 2.57                             |
|                                   | Y               | N                 | Y                  | Y                             | N                                |
|                                   | Y               | Y                 | Y                  | Y                             | Y                                |
|                                   | Y               | Y                 | Y                  | Y                             | Y                                |
|                                   | Y               | Y                 | Y                  | Y                             | Y (more complex than the others) |
|                                   | Y               | Y                 | Y                  | Y                             | Y                                |
|                                   | Y               | N                 | Y                  | Y (difficult on mobile web)   | N                                |
|                                   | Y               | N                 | Y                  | Y                             | Y                                |
|                                   | 0.67            | 3.56              | 2.44               | 2.89                          | 2.89                             |
| <b>IMPORT FEATURES (9)</b>        | N               | Y                 | Y                  | Y                             | Y                                |
|                                   | Y*              | Y                 | Y                  | Y                             | Y                                |
|                                   | N               | Y                 | N                  | Y*                            | Y (as attachment)                |
|                                   | N               | Y                 | Y                  | Y*                            | Y (as attachment)                |
|                                   | Y*              | Y                 | Y*                 | Y*                            | Y (as attachment)                |
| <b>IMPORT FEATURES (9, cont.)</b> | 0.67            | 3.56              | 2.44               | 2.89                          | 2.89                             |
|                                   | N               | Y                 | Y*                 | Y*                            | Y                                |
|                                   | Y*              | Y                 | Y*                 | Y                             | Y                                |
|                                   | N               | Y                 | Y*                 | Y                             | Y                                |
|                                   | N               | N                 | Y*                 | Y*                            | N                                |
| <b>DEVICE COMPATIBILITY (6)</b>   | 2.67            | 2.67              | 3.33               | 3.67                          | 1.33                             |
|                                   | Y               | Y                 | Y                  | Y                             | Y                                |
|                                   | Y               | N                 | Y                  | Y (not iPhone)                | N                                |
|                                   | Y               | Y (iPad only)     | Y                  | Y                             | N                                |
|                                   | Y               | Y                 | Y                  | Y                             | N                                |
|                                   | N               | Y                 | N                  | Y                             | Y                                |
| <b>EXPORT FEATURES (9)</b>        | N               | Y (iPad only)     | Y                  | Y                             | N                                |
|                                   | 0.89            | 0.89              | 1.78               | 2.44                          | 2.44                             |
|                                   | N               | N                 | Y*                 | Y*                            | Y*                               |
|                                   | Y               | Y                 | Y*                 | Y                             | Y                                |
|                                   | N               | N                 | N                  | Y*                            | Y*                               |
| PPT                               | N               | N                 | Y*                 | Y (only in presentation mode) | Y*                               |

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| <b>EXPORT FEATURES (9, cont.)</b>   | 0.89   | 0.89       | 1.78  | 2.44  | 2.44                                    |
| Word                                | N  | N          | Y*  | Y*  | Y*                                      |
| Text                                | N  | N          | Y   | Y   | Y                                       |
| HTML/embed code                     | Y  | Y          | Y   | Y   | Y                                       |
| Video                               | N  | N          | N   | N   | N                                       |
| <b>USER/COLLABORATOR LIMITS (2)</b> | 4  | 4          | 4   | 3   | 0                                       |
| Unlimited Guest/Viewer              | Y  | Y          | Y   | Y*  | N                                       |
| Unlimited Collaborators             | Y  | Y          | Y   | Y   | N                                       |
| <b>INTEGRATIONS (7)</b>             | 0  | 0          | 0.86  | 1.43  | 0.57                                    |
| Google Drive                        | N  | N          | Y*  | Y*  | N                                       |
| OneDrive                            | N  | N          | N   | Y*  | N                                       |
| Dropbox                             | N  | N          | Y*  | Y*  | N                                       |
| Evernote                            | N  | N          | Y*  | Y*  | Y                                       |
| Office365                           | N  | N          | N   | Y*  | N                                       |
| LMS                                 | N  | N          | N   | Y*  | N                                       |
| Custom                              | N  | N          | N   | N   | N                                       |
| <b>COST (5)</b>                     | 2  | 4          | 1.2   | 1.2   | 1.2                                     |
| Free Plan                           | Y (limit 3 maps)   | Y          | Y (limit 3 maps)  | Y (limit 3 maps)  | Y                                       |
| Education Plan                      | Y (apply for 50% educational discount: support@bubbl.us) | N          | Y (Campus: \$1/mo, 20+ users; Pro: \$10/mo, multi-user license; Personal: \$6/mo, 1 user) | Y (basic: \$36/yr, 1 user; teacher: \$69/yr, 1 teacher + 50 students; school: \$395/yr, 10 teachers + 250 students) | Pro version at reduced cost of \$59     |
| Premium Plan                        | Monthly: \$6/mo; Annual: \$59/yr; Team: Varies           | N          | Personal: \$6/mo; Pro: \$10/mo; Business: \$15/mo   | Premium: \$36/6months; Pro: \$90/6mon; Team: \$162/6mon   | XMind 7.5 Plus \$79; XMind 7.5 Pro \$99 |
| Premium Plan Free Trial             | Y (credit card required)                                 | N          | N   | On request  | N                                       |
| Custom Plan                         | Y (team plan)  | N          | N   | N   | N                                       |

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| <b>TOUCH CAPABILITY (1)</b>   | 4  | 0   | 4   | 4   | 0   |
| Gesture Manipulation          | Y  | N   | Y   | Y   | N   |
| <b>SUPPORT (7)</b>            | 2.86   | 2.29  | 3.43  | 3.43  | 3.43  |
| FAQs                          | Y  | Y   | Y   | Y   | Y   |
| Tutorials                     | Y  | Y   | Y   | Y   | Y   |
| Direct Contact                | Y  | N   | Y   | Y   | Y   |
| Chat Support                  | Y  | N   | N   | N   | Y   |
| Documentation                 | N  | Y   | Y   | Y   | N   |
| Discussion Forum              | N  | N   | Y   | Y   | Y   |
| Continued Updates/Development | Y  | Y   | Y   | Y   | Y   |
| <b>NOTES</b>                  | Simple mind/concept mapping tool that is completely web-based. No collaboration tools aside from sharing link and "can edit" access. | Mac/PC and iPad only. Can use web-based version, but not designed for mobile. Very functional and ideal for creating and sharing concept maps. Less conducive to collaboration. | Paid feature: integrates with Google Hangouts for video conferencing. Also, MeisterTask for task management. Has 4 course training for using MindMeister. Similar to Mindomo however Mindmeister is dedicated to mind maps and a more limited free version. | Great overall mapping tool with a functional but limited free account. Can convert mind maps into outlines. Special education accounts and LTI integrations are ideal for instructional applications. | Can convert mind maps into Gantt Charts which are then auto-synced. Stand alone software for mac/PC only. Web version in the works. |