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MindMapping
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MindMapping
MindMapping
Introduction

- Defined
- Brief History
- Subtopic 3
- Types
Defined

- A mind map is a diagram used to visually organise information. A mind map is often created around a single concept, drawn as an image in the center of a blank landscape page, to which associated representations of ideas such as images, words and parts of words are added. Major ideas are connected directly to the central concept, and other ideas branch out from those.
Brief History

- Early
- Tony Buzan
- Data Visualization
- Research
Early

- Radial Maps
- Spider Diagrams
Radial Maps
Spider Diagrams
Tony Buzan

- Video
Data Visualization

- Edward Tufte
- Napoleon Russian Invasion
- PowerPoint
Edward Tufte
Napoleon Russian Invasion

Carte Figurative des pertes successives en hommes de l'Armée Française dans la Campagne de Russie 1812-1813.

TABLEAU GRAPHIQUE de la température en degrés du thermomètre de Réaumur au dessous de zéro.

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A LINK to independent Living
Napoleon Russian Invasion

- The graph displays several variables in a single two-dimensional image:
  - the size of the army - providing a strong visual representation of human suffering, e.g. the sudden decrease of the army's size at the battle crossing the Berezina river on the retreat;
  - the geographical co-ordinates, latitude and longitude, of the army as it moved;
  - the direction that the army was traveling, both in advance and in retreat, showing where units split off and rejoined;
  - the location of the army with respect to certain dates; and
  - the weather temperature along the path of the retreat, in another strong visualisation of events (during the retreat "one of the worst winters in recent memory set in"[1]).
- Étienne-Jules Marey first called notice to this dramatic depiction of the fate of Napoleon's army in the Russian campaign, saying it "defies the pen of the historian in its brutal eloquence"[citation needed]. Edward Tufte says it "may well be the best statistical graphic ever drawn"[2] and uses it as a prime example in The Visual Display of Quantitative Information.
PowerPoint

- Its use to guide and reassure a presenter, rather than to enlighten the audience;
- Its unhelpfully simplistic tables and charts, resulting from the low resolution of early computer displays;
- The outliner's causing ideas to be arranged in an unnecessarily deep hierarchy, itself subverted by the need to restate the hierarchy on each slide;
- Enforcement of the audience's lockstep linear progression through that hierarchy (whereas with handouts, readers could browse and relate items at their leisure);
- Poor typography and chart layout, from presenters who are poor designers or who use poorly designed templates and default settings (in particular, difficulty in using scientific notation);
- Simplistic thinking---from ideas being squashed into bulleted lists; and stories with beginning, middle, and end being turned into a collection of disparate, loosely disguised points---presenting a misleading facade of the objectivity and neutrality that people associate with science, technology, and "bullet points".
Research

• Metastudy
• Medicine
A meta study about concept mapping concluded that concept mapping is more effective than "reading text passages, attending lectures, and participating in class discussions". The same study also concluded that concept mapping is slightly more effective "than other constructive activities such as writing summaries and outlines". In addition, they concluded that low-ability students may benefit more from mind mapping than high-ability students.
Recall of factual material improved for both the mind map and self-selected study technique groups at immediate test compared with baseline. However this improvement was only robust after a week for those in the mind map group. At 1 week, the factual knowledge in the mind map group was greater by 10% (adjusting for baseline) (95% CI –1% to 22%). However motivation for the technique used was lower in the mind map group; if motivation could have been made equal in the groups, the improvement with mind mapping would have been 15% (95% CI 3% to 27%).

Conclusion
Mind maps provide an effective study technique when applied to written material. However before mind maps are generally adopted as a study technique, consideration has to be given towards ways of improving motivation amongst users.

Types

• Concept Maps
• Idea Maps
• Project Timeline
• Fishbone
• Outline
Concept Maps

- In a concept map, each word or phrase connects to another, and links back to the original idea, word, or phrase. Concept maps are a way to develop logical thinking and study skills by revealing connections and helping students see how individual ideas form a larger whole.
Idea Maps

• Idea networking is a qualitative means of undertaking a cluster analysis or concept mapping of any collection of statements. Networking lists of statements acts to reduce them into a handful of clusters or categories.
Project Timeline

• Gantt Charts
• Critical Path (CPM)
Gantt Charts

WBS 1 Summary Element 1

WBS 1.1 Activity A
- 75% complete

WBS 1.2 Activity B
- 67% complete

WBS 1.3 Activity C
- START-TO-START
- 50% complete

WBS 1.4 Activity D
- FINISH-TO-START
- FINISH-TO-FINISH
- 0% complete

WBS 2 Summary Element 2

WBS 2.1 Activity E
- 0% complete

WBS 2.2 Activity F
- 0% complete

WBS 2.3 Activity G
- 0% complete

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13

TODAY
Gantt Charts

• Gantt charts can be used for scheduling generic resources, so as well as their use in project management, they can also be used in scheduling production processes and employee rostering.[6] In the latter context, they may also be known as timebar schedules.
Critical Path (CPM)

- Earliest start & finish
- Latest start & finish
- DUR = duration
- TF = total float
- DRAG = delay amount
- F, G, H, E, A, B, C, D
- CPM diagram
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Critical Path (CPM)

• The critical path method (CPM) is an algorithm for scheduling a set of project activities.[1]
Fishbone

Factors contributing to defect XXX

- Measurements
  - Calibration
  - Microscopes
  - Inspectors
  - Humidity
  - Temperature
  - Environment
- Materials
  - Alloys
  - Lubricants
  - Suppliers
  - Angle
  - Engager
  - Brake
  - Methods
- Personnel
  - Shifts
  - Training
  - Operators
  - Blade wear
  - Speed
  - Machines

→ Defect XXX
Fishbone

• Ishikawa diagrams (also called fishbone diagrams, herringbone diagrams, cause-and-effect diagrams, or Fishikawa) are causal diagrams created by Kaoru Ishikawa (1968) that show the causes of a specific event
Outline

• An outline, also called an hierarchical outline, is a list arranged to show hierarchical relationships and is a type of tree structure. It is used[1] to present the main points or topics of a given subject, often used as a rough draft or summary of the content of a document.
Overview

• Mindmap Creation
• Reading a Mindmap
Mindmap Creation

• Central Topic
• Subtopics
• Organization
Central Topic
Subtopics

•
Organization

•
Reading a Mindmap
Tools

- Paper
- Post-it
- Software
Paper

- Unruled Paper
- Color Markers
Post-it
Software

- Resource
- XMind
- Inspiration
FreeMind

• Free
• Open Source
• 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 mgmt.
FreePlane

• Free
• Open Source
• Application for Mind Mapping, Knowledge Management, Project Management. Develop, organize and communicate your ideas and knowledge in the most effective way.
XMind

- Free
- Open Source
- Paid Version available
Inspiration

• Low Cost
• Designed for Education
Examples

• Brainstorming
• NoteTaking
• Organization
• Mapping
Brainstorming
NoteTaking
Organization
Mapping
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