

11. A method of non-visually displaying a multi-part information page containing two or more spatially located areas of separate content, as per claim 1, wherein said multi-part information page is visually displayed.

12. A method of non-visually displaying a multi-part information page containing two or more spatially located areas of separate content, as per claim 11, wherein said non-visual, abstract representation is synchronized with said visually displayed multi-part information page.

13. A method of non-visually displaying a multi-part information page containing two or more spatially located areas of separate content, as per claim 1, wherein said tactile output device comprises any one of a touch pad, a bracelet, a ring, a necklace or a laser pointer.

14. A system for non-visually displaying a multi-part information page containing two or more spatially located areas of separate content, said system comprising:

an intermediary, said intermediary generating a non-visual, abstract representation of said multi-part information page, said non-visual, abstract representation comprising non-visual display coordinates, said non-visual display coordinates comprising:

boundary coordinates defining boundaries between said two or more spatially located areas, said boundary coordinates associated with tactile feedback;

content coordinates defining said two or more spatially located areas, said content coordinates associated with auditory feedback, said auditory feedback representative of content meta-information;

a non-visual input/output interface;

said interface receiving said non-visual, abstract representation from said intermediary;

said interface receiving input position coordinates;

said interface mapping said position input coordinates to said non-visual display coordinates;

said interface generating a tactile output to cause a tactile output device to generate said tactile feedback for position input coordinates mapped to said boundary coordinates, and

said interface generating an auditory output to cause an auditory output device to generate said auditory feedback for position input coordinates mapped to said content coordinates.

15. A system for non-visually displaying a multi-part information page containing two or more spatially located areas of separate content, as per claim 14, wherein said content meta-information indicates any of area updated; area contains specific items designated of interest; kind of content within area; area is scrollable; area is visible in its entirety; number of hyperlinks in area; area contains content in a visually impaired user inaccessible form; or area contains content in a visually impaired user accessible form.

16. A system for non-visually displaying a multi-part information page containing two or more spatially located areas of separate content, as per claim 14, wherein:

said intermediary receives a request for said content in one of said areas;

said intermediary retrieves said requested content from said cached data, and

said intermediary transmits said content to a linear screen reader.

17. A system for non-visually displaying a multi-part information page containing two or more spatially located areas of separate content, as per claim 14, wherein:

said intermediary receives a request for said content in one of said areas;

said intermediary retrieves said requested content from said cached data;

said intermediary generates a non-visual representation of said content displayable by said tactile output device and said auditory output device, and

said intermediary transmitting said non-visual representation of said content to said interface.

18. A system for non-visually displaying a multi-part information page containing two or more spatially located areas of separate content, as per claim 14, wherein said multi-part information page is a web page containing frames.

19. A system for non-visually displaying a multi-part information page containing two or more spatially located areas of separate content, as per claim 14, wherein said tactile output device comprises any one of a touch pad, a bracelet, a ring, a necklace or a laser pointer.

20. A system for facilitating collaboration between visually impaired and sighted users including a computer-based device, said device providing representations to said visually impaired users of a multi-part information page's visual appearance by way of auditory and tactile feedback references indicating content layout and meta-information of content in a visually displayed multi-part information page, said system comprising:

a visual display, said display including a graphical representation, said graphical representation comprising one or more boundaries separating two or more content areas having distinct viewable content;

an electronic input device, said input device generating input position coordinates;

computer-based processor, said processor receiving said input position coordinates;

computer-based memory, said memory storing at least boundary coordinates corresponding to said visually displayed boundaries and content coordinates corresponding to said visually displayed content areas;

an auditory output device;

a tactile output device;

said computer-based processor comparing said stored coordinates with said input position coordinates;

said computer-based processor providing auditory feedback via said auditory output device representative of meta-information of viewable content in a content area for input position coordinates substantially equal to said content coordinates, and

said computer-based processor providing tactile feedback via said tactile output device for input position coordinates substantially equal to said boundary coordinates.