

Inputted text to Animated Sign Language, interactive interface, a Self-learning with fun.

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Abstract

To bridge a disability divide digitally, an animated sign language, an interactive self learning tutor, is an online website as well as a offline software helps the people to learn sign language by allowing converted typed text to sign language animation sequence.

Learning sign language is “time consuming, confusing and boring.” says a mother whose son has hearing and Speech impaired. Our tool offers users a chance to enjoy an interactive animated sign language sequence of the worlds they have typed from the keyboard. We want to empower people with disabilities to enjoy their ICT experience by making the interface like a chat browser between people-computer-people. Additionally we would like to demonstrate how this human computer interaction can strengthen the awareness of computers among the people with hearing and spoken disability.

Key words: Human computer interaction, education, Sign language, Animation.

1. Introduction:

With the goal of digitally bridging a disability divide, animated sign language, an interactive self learning tutor, is an online website as well as some offline software. It helps people to learn sign language by converting typed text to an animated sign language sequence.

To learn the sign language either we have to learn it from the book, which turns out to be boring, and also it is hard to understand the movement of hands from the static graphic. If you higher the teacher to learn will be time consuming and costly as well.

2. Scenario on the web for ASL Learning:

We have extensively researched on the current scene of Websites that teach American Sign Language. All of them have static graphics like books. These are time consuming, confusing, and it is difficult to understand and comprehend the sign language. They just present information about the particular sign with arrows and don't attract the users with interactivity.

3. Approach:

We try to solve this problem -by developing a simple but effective interface, which converts the inputted text to sign language word by word.

With the help of scripting from Flash and the html we have designed a platform independent interactive system. Further more, this system can be used in mobile, palmtop, desktop, simputer or Laptop contexts, and that makes it more flexible for any hardware devised, without any other additional supports.

4. Design solutions.

Figure 1, Websites engine lay out/
www.geocities.com/ruehue15

5. Advantages:

Simple websites that use the flash plug-in that is freely available for download. There can be off line as well as online versions. It is also platform independent, like computer, Laptop, Palm top, mobile etc. as well as Operating system independent, Window, Mac, Linux, Etc. No extra hardware specifications or other external accessories are required to use the software.

Reference:

Multimedia is a perfectly natural way to learn this Completely updated and redesigned version of the American Sign Language Dictionary, by Martin L.A. Sternberg, Ed. D.