Abstract

WoPoss aims to study the evolutionary change in meanings of words from Latin over a long period of transition. They use a Pygmalion tool which visualizes the evolution of the words in two different ways; a network graph and arrows along the temporal axis mapping the meaning of a word and its terminology. The map displays examples of phrases, relationships between words, and the connection between different words in different languages. The second visualization showcases the connectivity between a word and its usage in other sentence structures. The Pygmalion tool itself tool is powerful but still has room for more improvement. The key does not give clear explanations on how to use the map and the graph. This can be addressed by using layman's terms to explain the map features. Its use of arrows along the horizontal axis effectively shows word progression; however, the arrows point out of the screen, which makes them impractical. The grouping and sorting buttons should be moved to the top of the map for better accessibility. The network graph is complicated because it has no clear purpose. In order to improve the effectiveness of the network graph, we must explore alternative designs, such as mind maps and flow diagrams, in order to get optimal results from the tool. We would like to add more accommodating features for those who use screen readers and incorporate alternative grouping methods (as opposed to color coding) for those with color blindness to help them with navigation. Our team would like to include self-assessment features such as flashcards or short quizzes to increase the educational interactivity on the website.