

## **Twitter Dynamic Word Cloud Generator**

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## ABSTRACT

Word clouds are used as a visual form of data analysis, mainly when it comes to looking at trends and opinions. Dynamic word clouds are animated word clouds that show changing trends over time. This have never before been developed, or at least made publicly available. This project's aim was to create an application that can generate a 'static' or 'dynamic' word cloud through use of input files while also allowing a certain amount of customisation. This was achieved by editing and building upon an open-source static word cloud generator KUMO. The placement algorithm was completely replaced with one similar to the popular word cloud creator Wordle. A GIF was created for the dynamic word cloud by calculating the word differences between the two input files, and then creating a set amount of frames between the two. Overall the application achieves the aims it set out to complete, along with giving font colour, size and GIF speed customisation options.



C Barnes, Twitter Dynamic Word Cloud Generator, Proc. 13th School Conf. for Annual Research Projects, V F Ruiz (Ed), pp. xx-yy, University of Reading, 34th May 2016.