Hooking up Web Audio to WebGL Typography

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ABSTRACT
This demo introduces programmable text rendering that enables temporal typography in web browsers. Textual interaction is seen not only as a dynamic but interactive process facilitating both scripted and live musical expression in various contexts such as audio-visual performance using keyboards and live coding visualization. We transform plain text into a highly audiovisual medium and a musical interface which is visually expressive by transforming textual properties using real-time web audio signal. Technical realization of the concept uses Web Audio API, WebGL and GLSL shaders. We show a number of examples that illustrate instances of the concept in various scenarios ranging from simple textual visualization, live coding environments and interactive writing platform.

WEB LINKS
http://livewriting.eecs.umich.edu/text-demo.html

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