## Graduate School of Science and Technology Master's Thesis Abstract

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Thesis title	Interactive applications based on text-to-image models		
	text-to-imageモデルを用いたインタラクティブなアプリケーション		

## Abstract

Since their inception, Generative Adversarial Networks (GANs) have shown a compelling performance in generating data from an existing dataset. One of their possible applications is the generation of images conditioned to textual input. These types of networks have incorporated distinct mechanisms over the years and are now capable of generating images with high detail from sentences. In this study, we present two interactive applications that utilize state-of-the-art GAN models. For our first application, we introduce Birdscribe, a web application that provides semantic feedback by generating high-quality images of birds from the user's text. Then, in our second application, Visualyre, we combine text-to-image generation with style transfer in a multi-modal approach to generate album arts, using textual information from lyrics and acoustic information from song files. We conduct experiments with a small group of musicians to evaluate the effectiveness and usability of album art generation.