

Josh Vienx

Graphic Design

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Batman Political Party 1007 Thomas Wayne Rd. Gotham City, NY www.batmanpolitics.com



Figure 1: Batman Letterhead

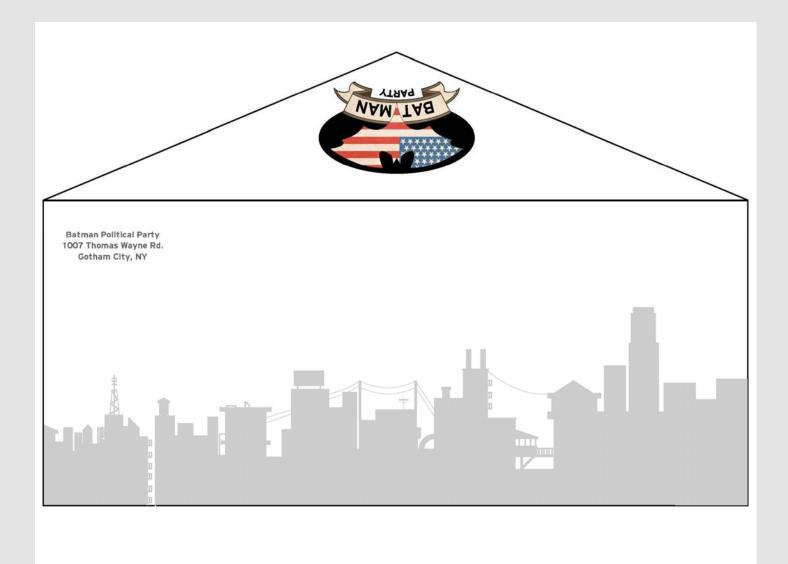
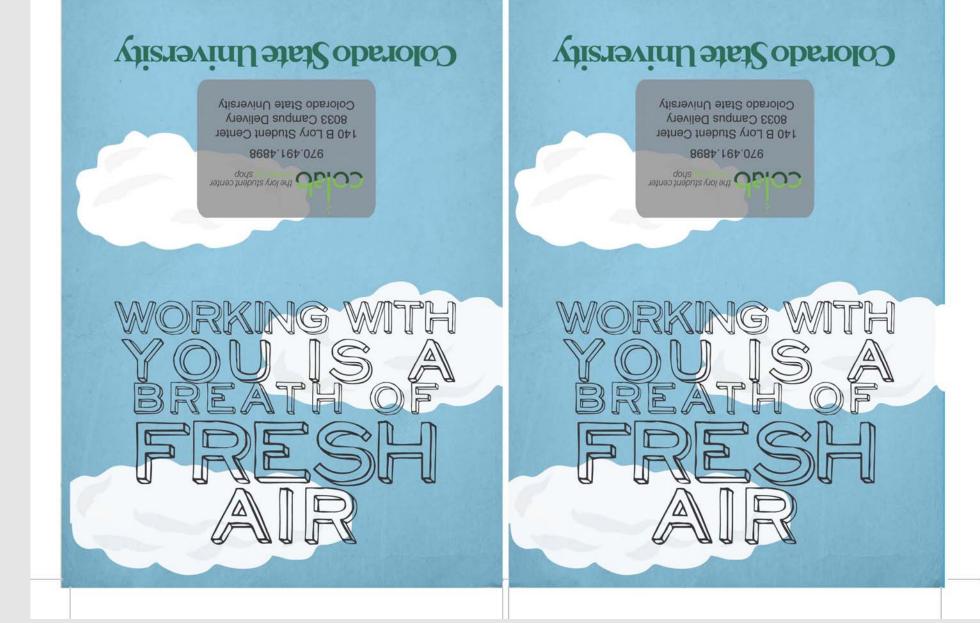




Figure 2: Batman Cards



Figure 3: CFG_C_InfographicV6



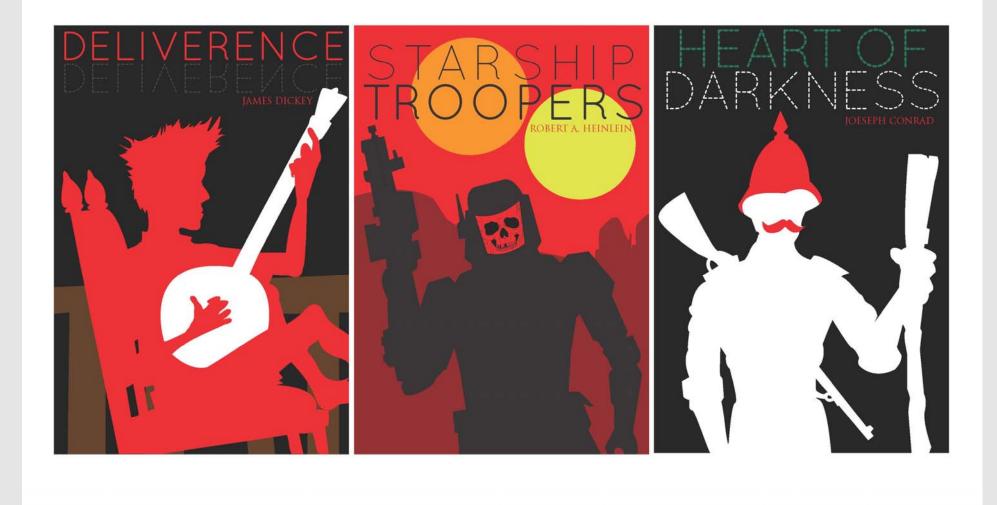


Figure 5: Covers Final



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MOLECULES, CARDIOVASCULAR MODELS & RESEARCH AT CSU MANKIND YOUR BODY IS A WORK OF ART. BLOOD IS THE MEDIUM

COLLOQUIUM COLLOQUIUM APRIL 4-5TH 2013 THE HILTON FORT COLLINS, 425 W. PROSPECT RD.

> Co-Chairs: Dr. Scott Earley Department of Biomedical Sciences; Dr. Frank Dinenno, Human Cardiovascular Physiology Lab

Colorado State University

Figure 8: Kinkos Print 2



Figure 9: Kinkos Print

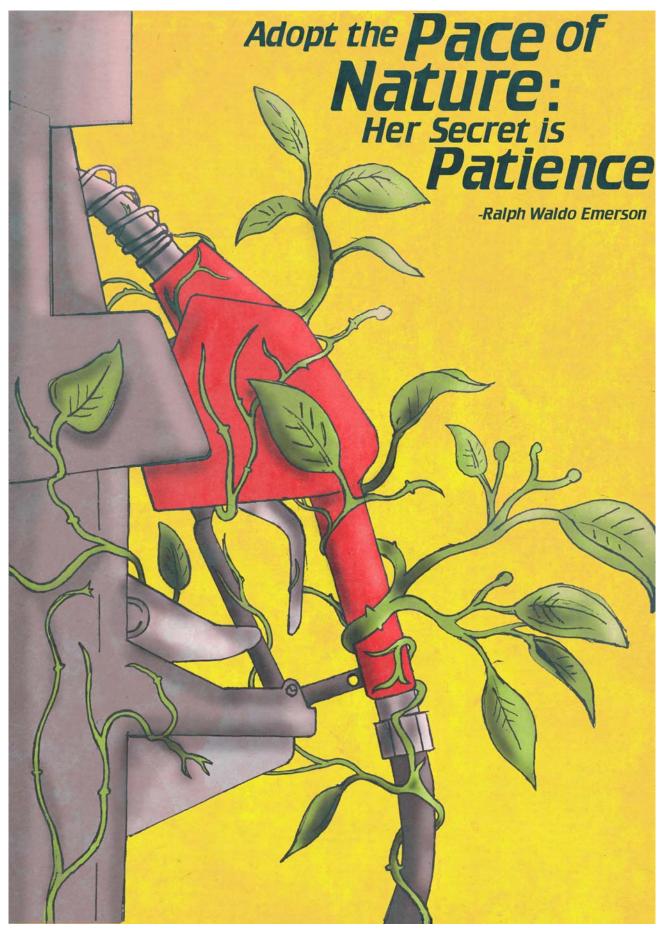


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SPECIAL EDITION ISSUE

CAME BACK? WE TAKE A LOOK AT THE ARTISTS WE LOST WE LOST TOOO EARLY

WHAT IF

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Figure 13: Skypal Logo

Atlantic Monthly





Ever since the Voder, Bell Labs' artificial-voice machine, blurted out a barely intelligible "Good evening, radio audience ..." at the 1939 New York World's Fair, voice engineers have been striving to generate lifelike synthetic speech. Unlike today's automated systems, the Voder needed an operator who knew which keys to press to elicit "speech" that, for all its marvels, sounded like it was coming from a tuba rather than a human being.

Scientists continued refining their synthetic voices through the 1960s. In the 1970s, advances in computers ironically brought human voices back into the mix, with digital recorded speech providing canned audio responses. Researchers began chopping up dialogue into the smallest units of speech, phonemes, and using software programs to re-form those bits into words, phrases, and sentences. Unfortunately, such utterances sounded pretty much the way "re-formed" chicken nuggets taste. Since the mid-1990s, expanding "digital libraries" have allowed for storage of more phonemes that could be split into even smaller units, adding authenticity to the "voice." But even today's state-of-the-art systems, like AT&T's Natural Voices, still don't capture the range of human emotion.

That's exactly what Gershon Silbert, a 61-year-old former concert pianist and the CEO of VivoText, an Israeli start-up he founded in 2008, hopes to achieve. VivoText's text-tospeech engine draws on two pieces of technology: a proprietary voice-sample database that enables the portrayal of "emotion"; and software that Silbert devised to generate virtual-music performances that capture the expressiveness of professional musicians.

Not that Silbert thinks the best text-tospeech platforms used in audio books, video games, and e-mail readers lack expressiveness. "The pitch goes up and down," he told me. "The timing changes. They do have expression; it's just that what they're expressing is sometimes inappropriate and inaccurate, and in many cases not enough."

Most phoneme databases have been created by voice actors who maintained a neutral tone to generate what Silbert calls "okay speech that works." But when generated through these machines, sentences that demand emotion tend to fall flat. Silbert also wants to move beyond the pre-programmed phrase templates of existing technologies and allow a more open-ended sentence structure. To do that, the VivoText software interprets... (Continued on the next page)