

Thekwini

First Encounters With Thekwini

(sourced from the Thekwini documentation)

By Vusi Moloi © 1994-2004

zulumathabo@thekwini.com

Introduction to Thekwini

Humans display two types of behaviour i.e. rehearsed behaviour and less-rehearsed behaviour. While a rehearsed behaviour appears to be controlled by the individual the less rehearsed behaviour seemingly falls outside the domain of control. As a visual system Thekwini needs to engage a viewer's attention. Anecdotal accounts show that Thekwini's visual content, comprised by certain color frequencies and motion stimuli, is capable of sustaining attentional behaviour while effecting an efficacious mood change within a few seconds.

Engineered for therapeutics with a mood testing instrument and customization, Thekwini is a non-invasive therapeutic tool designed to engender a change in brain chemistry using color and motion stimuli. Intended to benefit a variety of users who suffer from anxiety, depression and other mood disturbances including persons with photo sensitive epilepsy, Thekwini's physics module makes it possible to compute correct frequencies which induce a therapeutic experience with a high degree of efficacy using non-invasive neural pathways.

Although begun in 1994 as a computer science project at Carleton University with the mentorship of Dr. Jansen Sedgewick of the School of Computer Science a variety of recent experimental studies by experts in neuroscience, psychology and psychiatry have confirmed that certain specific color wavelengths induce a change in brain chemistry similar to antidepressants without the concomittant adverse effects associated with the use of such drugs as reported in *Thekwini's Documentation including Color Medicine, Brief Notes on Thekwini, and Thekwini Psycho-Acoustic/Visual Therapy Software*.

Thekwini's Modules

Comprised by six modules Thekwini includes Visuals Module, Color Module, Sound Module, Physics Module, Psychology Module and Movie Module.

Visuals Module

Thekwini delivers two types of visuals i.e. artistic visuals and dynamic visuals also known as RTA. The artistic visuals are created manually by visual artists trained in the use of therapeutic visuals. The RTA visuals are created algorithmically and provide realistic simulation of natural phenomena like wood fire, gas fire, blowing snow and more. The basic version of Thekwini comes with visuals and the RTA module.

Color Module

Color medicine or the use of color for a therapeutic experience is core to Thekwini and the color module makes this possible. The coloring module provides advanced color features like rotating hue, scaling or offsetting RGB values, luminosity to add x-ray color effects, saturation and more. Thekwini already provides core coloring in the form of color

matrix but the coloring module adds more sophisticated coloring to the visuals. This module is optional.

Sound Module

Sound adds more efficacy to a therapeutic experience. Thekwini boasts a sophisticated sound engine Izelhemud which provides motorized logarithmic fading, multi-channel or multi-track sound experience, sound segmentation with smooth fading, highly customizable playlists, mixer sounds and sound objects called VOS and more. Thekwini comes with basic sound support which allows for a full therapeutic experience. The izelhemud sound module is optional.

Physics Module

The physics module enables Thekwini to realistically simulate natural phenomena like fire and more. The module natively computes color wavelengths as spectra and performs conversion into RGB for display with the result of a highly realistic color visualization. The spectral analysis with full graphing is the result of the physics module. The physics module was inspired by great physicists like the Nobel Prize winning German scientist Dr. Max Planck and Balmer. In fact the mathematics of both these physicists provide the backbone of the physics module.

Psychology Module

The psychology module is essentially an analytical tool which provides a mood testing instrument as well as a mood diary system. This makes it possible to measure the efficacy of Thekwini's color medicine on the user. This module is only available in the professional version.

Movie Module

The movie module makes it possible for Thekwini's therapeutic content to be accessible to the residents of nursing homes, and other facilities where computers are either not available or accessible. This module outputs a therapeutic content to a movie file which can then be edited in a video editing software and formatted for VHS, DVD, VCD or other popular formats. This module is only available on the professional version of Thekwini.