

SFSKids: Fun and Games with Classical Music

Walt Scacchi and Alex Szeto

Institute for Software Research

and

Institute for Virtual Environments and Computer Games

University of California, Irvine

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Overview

- A brief tour of SF SKids (2013)
 - highlighting innovations and competitive advantages
- Guided tour and walkthrough of SF SKids
- Expanding the scope and reach of SF SKids to diverse, global audiences with multiple musics
 - through externally funded partnerships

SFSKIDS: Portal for 8-13 year old students

SFSKIDS

FUN & GAMES WITH MUSIC

Discover Music

Under the Sea of Knowledge.



Play with Music

Above the Musical Skies



Perform Music

In the Instrument Garden



Conduct Music

At the Symphony Hall



Compose Music

Atop the Mountain of Muses



Competitive landscape: who competes with *SFSKids*?

- Other orchestra portals?
 - *NYPhil, Dallas, Nashville, (Carnegie Hall)?*
- Online music education portals?
 - *Music Learning Community, Piano Education, MTNA, World Music Daria, PBSKids?*
- Games with/for Music?
 - *CreatingMusic? Harmonix/Disney Fantasia: Music Evolved? (video)*

Innovative challenges addressed in *SFSKIDS*

- Non-Functional Requirements
- Playful user interfaces
- Gesture control
- Real-time DSP in Web browser
- Persistence without storage
- Design for extensibility

Accommodating Non-Functional Requirements

- SFSKids must be *fun* for 8-13 year old students
- SFSKids must operate on older or slower personal computers
 - enabling young people in underserved communities
- SFSKids aligned with *National Music Education Standards*

Align with National Music Education Standards



National Association
for Music Education

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INFORMATION ON MUSIC EDUCATION

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GENERAL MUSIC

1. Singing, alone and with others, a varied repertoire of music.
2. Performing on instruments, alone and with others, a varied repertoire of music.
3. Improvising melodies, variations, and accompaniments.
4. Composing and arranging music within specified guidelines.
5. Reading and notating music.
6. Listening to, analyzing, and describing music.
7. Evaluating music and music performances.
8. Understanding relationships between music, the other arts, and disciplines outside the arts.
9. Understanding music in relation to history and culture.

Related Links:

- [Summary Statement](#) Education Reform, Standards, and the Arts—Summary Statement to the
- [National Standards for Arts Education: Introduction](#)
- [National Standards for Arts Education: A Brief History](#)
- [National Standards for Arts Education](#) (complete K-12 standards, hosted by ArtsEdge)

Playful user interfaces

Discover Music

Under the Sea of Knowledge.



Gesture control (without costly devices)

Perform Music

In the Instrument Garden



Real-time DSP/Music Processing in Web browser

Conduct Music

At the Symphony Hall



Persistence without storage

SFSKids requires minimal service support: therefore no external database or content management servers

- Users can export (via email) *encoded URIs* that embed *music compositions* or *music (video) animations*
- Other users can receive and select encoded URIs, resume session or modify user created content

Anticipated extensions

SFSKids designed for extension, modding, or customization of:

- Recorded music catalog
- Music history
- Music genres (Opera, Jazz, World,...)
- Musical instruments
- User created music+imagery
- External content management
- Localization (internationalization)

Conclusions

- *Fun and games with music*: a challenging requirement!
- Technological innovations for online music education
 - playful user interfaces; gesture control;
 - real-time music processing; persistence without storage, etc.
- Enabling new (market) opportunities via a reusable, extensible platform!

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