SFSKids: Fun and Games with Classical Music

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Overview

– A brief tour of SFSKids (2013)
  – highlighting innovations and competitive advantages
– Guided tour and walkthrough of SFSKids
– Expanding the scope and reach of SFSKids to diverse, global audiences with multiple musics
  – through externally funded partnerships
SFSKIDS: Portal for 8-13 year old students

**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?
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 STANDARDS FOR MUSIC EDUCATION

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](http://example.com) Education Reform, Standards, and the Arts—Summary Statement to the
- [National Standards for Arts Education: Introduction](http://example.com)
- [National Standards for Arts Education: A Brief History](http://example.com)
- [National Standards for Arts Education](http://example.com) (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
Conduct Music
At the Symphony Hall

Sergei Prokofiev
Dance of the Knights
from Romeo and Juliet
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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