



曹翔 (Xiang Cao)

Human-Computer Interaction Group

Microsoft®

**Research**

微软亚洲研究院



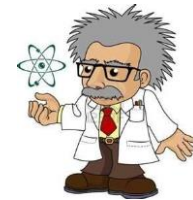
- An inexpensive depth camera



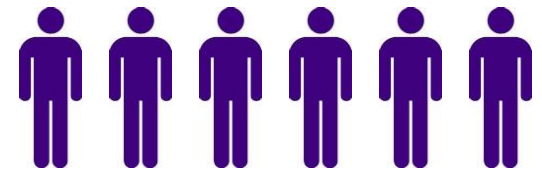
- A cool gaming gadget



- A powerful research platform



- A new element of your life!



# *Kinect'ing Your Life*

曹翔 (Xiang Cao)

Human-Computer Interaction Group

Microsoft®

**Research**

微软亚洲研究院

# ***Kinect'ing Your Life***

- Work
- Learning
- Education
- Cultural Heritage

# ***Kinect'ing Your Life***

- **Work**
- Learning
- Education
- Cultural Heritage





# SemanticMap

Sergio Paolantonio et al.





# ***Kinect'ing Your Life***

- Work
- **Learning**
- Education
- Cultural Heritage





# SpatialEase

Darren Edge et al.



# ***Kinect'ing Your Life***

- Work
- Learning
- **Education**
- Cultural Heritage





accent  
on

Book 1  
The Very Young  
PIANIST

by Jane Smisar Bastien



COMPOSERS IN FOCUS  
VALERIE BOTH ROUBOS  
Travel Tunes

THE 12  
USING THE MUSICAL ALPHABET

Right hand (the thumb always plays the lowest note of the chord)

Triads	Quads
1 C D E F G	1 C D E F G A
2 D E F G A	2 D E F G A B
3 E F G A B	3 E F G A B C
4 F G A B C	4 F G A B C D
5 G A B C D	5 G A B C D E
6 A B C D E	6 A B C D E F
7 B C D E F	7 B C D E F G
8 C D E F G	8 C D E F G A

Left hand (the thumb always plays the lowest note of the chord)

Triads	Quads
1 C D E F G	1 C D E F G A
2 D E F G A	2 D E F G A B
3 E F G A B	3 E F G A B C
4 F G A B C	4 F G A B C D
5 G A B C D	5 G A B C D E
6 A B C D E	6 A B C D E F
7 B C D E F	7 B C D E F G
8 C D E F G	8 C D E F G A

PLAYING

- 1. Play all of the triads in the key of C.
- 2. Play all of the quads in the key of C.
- 3. Play all of the triads in the key of D.
- 4. Play all of the quads in the key of D.
- 5. Play all of the triads in the key of E.
- 6. Play all of the quads in the key of E.
- 7. Play all of the triads in the key of F.
- 8. Play all of the quads in the key of F.
- 9. Play all of the triads in the key of G.
- 10. Play all of the quads in the key of G.
- 11. Play all of the triads in the key of A.
- 12. Play all of the quads in the key of A.
- 13. Play all of the triads in the key of B.
- 14. Play all of the quads in the key of B.





EnseWing  
In collaboration with  
Chinese Academy of Sciences





# ***Kinect'ing Your Life***

- Work
- Learning
- Education
- **Cultural Heritage**



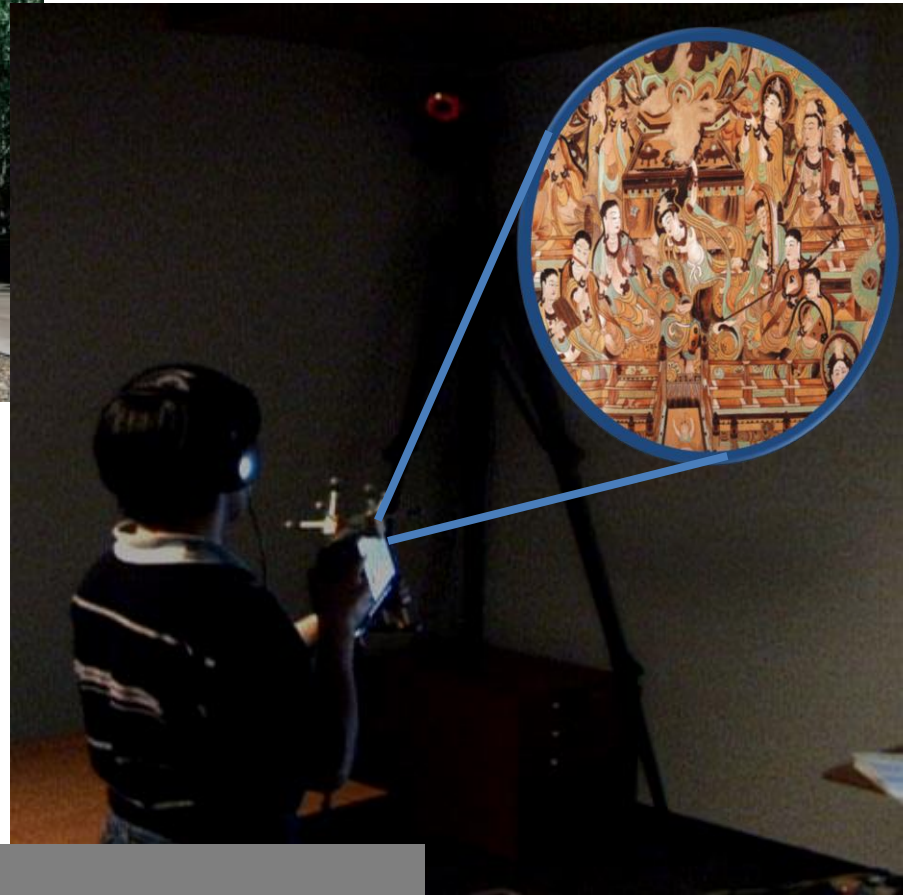




# ***“E-Heritage”***



Dunhuang Academy



# Virtual Dunhuang

Xiang Cao et al.

# Calibrated Room

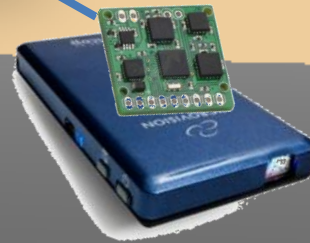


Kinect



Kinect

Orientation Sensor



Handheld Projector

A virtual experience for visiting  
Dunhuang caves using handheld  
projectors

# *Your Kinect'ed Life*

