



# European Conference Smalltalk Technology





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# 21th International Smalltalk Conference

Anncy



## Multimedia Presentations at Adventure World German Presents Language in Köthen Castle

- Founded 7/7/1987 in Dortmund
  - Original Mission
    - Spread Smalltalk in Central Europe
- 1996
  - Georg Heeg AG Zurich
    - To serve the Swiss Market
- 1999
  - Subsidiary in Köthen (Anhalt)
    - To keep Family Heeg together



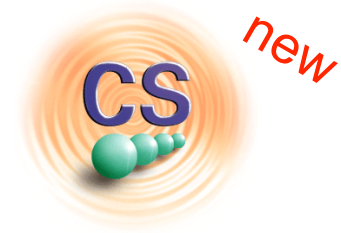


# Main Activities

- 100% Smalltalk



- Training
- Consulting
- Product development for customers
- Project support
- ERP System Component Studio



# Our Team

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- 14 Smalltalkers
  - 7 to 28 years of Smalltalk experience
  - 6 certified Scrum Masters
- 1 Web Designer
- 1 Sales Person
- 4 Craftspeople
- 1 Business Administration Manager



# April 27, 2013

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- Adventure World German Language opened at Köthen Castle as part of Köthen History Museum (<http://www.erlebniswelt-deutsche-sprache.de/> ).

# Welcome to Köthen Castle





# Let's enter Adventure World



# Welcome





- Traditional displays
- 3 self-service 42" touch monitors
  - visitors can interact
  - information systems providing different kind of information

# Let's go through the Exhibition

Herzlich willkommen in der

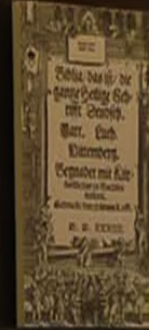
## Erlebniswelt Deutsche Sprache

Treten Sie näher ...

*Willkommen*

*Zeileste*

*So sprachen  
unsere Vorfahren*



Text block on a small white card.



**Frühneuhochdeutsch**  
Text block on a white card.

**Neuhochdeutsch**  
Text block on a white card.

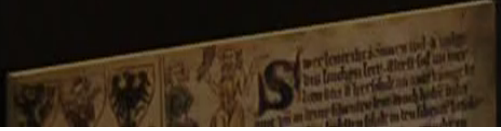
Text block on a white card.



Text block on a white card.



Text block on a white card.



Text block on a white card.



# Tasks

- The only tasks the developers needed to fulfill are:
  1. Easy to use by everybody without any explanation.
  2. Show information in good looking ways.



# How to Use the Surface

- All screens are Full HD 1080p
- $1920:1080 = (16:9) * 120$
- PowerPoint uses  $4:3 = 12:9$
- Control panel:  $4:9$  (25% of the width)
- 85% to 90% are right-handed

Herzlich willkommen in der

# Erlebnisswelt Deutsche Sprache

Treten Sie näher ...

*Willkommen*

*Denckring*

*Zeitleiste*

*What Browser*

*Fürst Ludwig*

*So sprachen  
unsere Vorfahren*

*Scrabble*



- Standard PC
- 2 Monitors
  - Primary to control
  - 42" Touch Monitor
- Windows 8
  - For gesture support
- VisualWorks 7.9.1



Herzlich willkommen in der

# Erlebnisswelt Deutsche Sprache

Treten Sie näher ...

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*Scrabble*

- VisualWorks Canvas
  - autoplaced on full second screen
  - configurable button pane (right)
  - exchangable subcanvas (left)
    - mostly Internet Explorer 10 in Active-X

# Inside the Subcanvas

- VisualWorks Application
  - Denckring
- External Web Site
  - Humboldt University Berlin
  - So sprachen unsere Vorfahren
- Converted PowerPoint presentations
  - e.g. Welcome

# Inside the Subcanvas II

- Seaside Application
  - Scrabble
    - Award winning
- SeaBreeze Applications
  - easier to make good looking (css)
    - Member and book databases
  - also as front-end to other web sites
    - Word creation machine



# Virtual keyboard

- VisualWorks window
- Controlled by seaSide apps
  - using call-backs



*Mitglieder der Fruchtbringenden Gesellschaft*

 (1585) Matthias Abele von und zu Lilienberg	 (1644) Hans Albrecht Achill von Sterling	 (181) Tobias Adami	 (1626) Christoph Albrecht von Adelheim	 (1879) Johann Georg Aeschel (Etzel)
				

Filter

Allgemein X

Familienname X

Mitgliedsnummer X

Sortierung

Nachname 1891

Vorname

Mitgliedsnr.

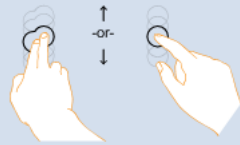
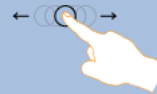
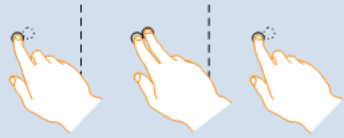

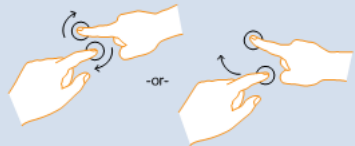
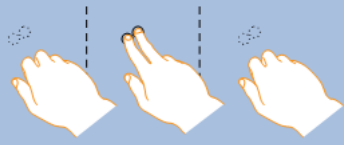
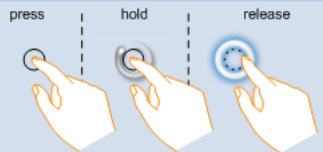
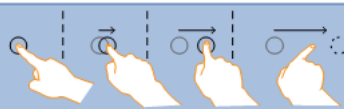
Denkring

Wortbildungs-  
maschine

Digitalisate

Mitgliedersuche

- Gesture Support
  - Windows Message WM\_GESTURE
  - GetGestureInfo() must be called in WndProc
    - to fill GESTUREINFO structure
- Dual Thread VM
  - only allows WndProc being implemented in C/C++

GESTURE	WINDOWS USAGE	GESTURE ACTION	ACTION (○= finger down   ◉= finger up)	Single Contact	Multi Contact
Tap / Double Tap	Click / Double Click			★	★
Panning with Inertia	Scrolling	Drag 1 or 2 fingers up and down			★
Selection / Drag (left to right with one finger)	Mouse Drag / Selection	Drag one finger left / right		★	★
Press and Tap	Right-click	Press on target and tap using a second finger			★
Zoom	Zoom (defaults to CTRL key + Scroll wheel)	Move two fingers apart / toward each other			★
Rotate	No system default unless handled by Application (using WM_GESTURE API)	Move two fingers in opposing directions -or- Use one finger to pivot around another			★
Two-Finger Tap	N/A – Exposed through Gesture API, used by Application discretion.	Tap two fingers at the same time (where the target is the midpoint between the fingers)			★
Press and Hold	Right-click	Press, wait for blue ring animation to complete, then release		★	★
Flicks	Default: Pan up/ Pan Down/ Back, and Forward	Make quick drag gestures in the desired direction		★	★

# Special Issue II

- Some gestures are unwanted
  - Ribbon effect moves the entire window
  - Two finger gestures modify the layout
- Filtering of events only option
  - must be implemented in C/C++



# Cinema



- Automatic scheduling of videos
  - every 30 minutes
- Dimming the lights
- Schedule of the rest of the day
  - when no video shown
  - show current time
- Manual control option



# Our Team made GH Show come true



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