



Universiteit Leiden

# HCI

Concept idea

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**Version:** 1.0  
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**Project:** [Human Computer Interaction 2008](#)  
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## Summary

Project working title: World-Wide-Wii  
Theme: Exploratory Information Access by new Interactions

## Team information

Team 18: The Croquetteers

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## Implementation platform

Cross-platform Croquet - <http://www.opencroquet.org> - which is a framework for easy building and managing a virtual world, done using the programming language called Squeak.

## User group

The user group for this project consists of people who make daily use of the world-wide-web. They also need to own a Nintendo Wii including a balance board. Our aim is at computer users who have little or none computer experience, that want to accomplish a natural way of browsing a known subset of the world-wide-web. For example, when a person is done with his/her Wii workout and likes to check his email or read his/her favorite news site.

## Idea summary

“3D world-wide-web navigation by means of the wii-mote, balanceboard.”

Our HCI proposal is to build an interactive 3D environment. The user walks through a 3 dimensional world by use of the balance board. Using the wii-mote the user can control the view in all dimensions. The 3D environment can for example consist of hotels and buildings with electronic walls containing dynamic web page information. A gatekeeper can for example be used as authentication. An elevator for the sitemap. We basically like to transform the 'going online' experience to more day-to-day activities, like going to a mall or walking on the street. We will try to make the controls as natural as possible and use geo-structures to simulate natural actions, like sorting e-mail. As it is yet impossible to fully convert all 2D applications to the virtual world, we will try to find a hybrid solution, by the means of projecting

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the screen on some object and allowing a person to interact with the object in a more 'traditional way'. As a practical example, an (office)desk might contain a typewriter with some documents lying on the table which could be inserted into the type writer instead of using windows to manage the documents.

## Theme

One primary target of our research is whether new motion controls and virtual worlds allow users to have a better understanding in a complex digital world with icons, links and all other domain specific features which were developed at early days of computing, which we like to accomplish by translating the metaphors back to its original form and allowing users to interact with the system as if they are used to in 'normal' life.

## Document management

### Version history

Version	Date	Author	Comments
1.0	08-10-08	Rick van der Zwet, Frank de Boer	Concept

### Document distribution

Name / Lecturer / Assistant	Datum	Versie
Dr. Ir. Fons J. Verbeek	08-10-08	1.0
Job de Reus		

### Name / Members

Rick van der Zwet	08-10-08	1.0
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