

#### Interactive Virtual Architecture as a tool for Online Branding of e-stores

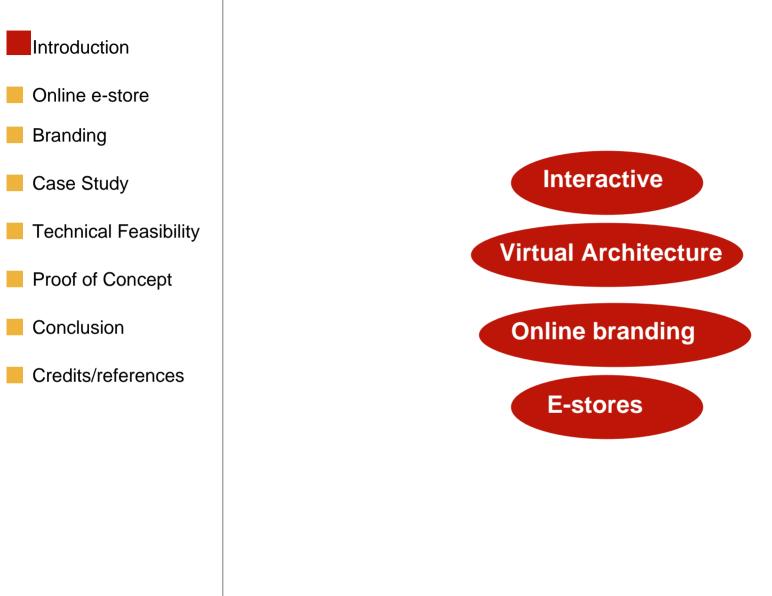
#### **M.S.** Thesis presentation

Arthi Amaran College of Architecture Texas Tech University October 1, 2004

#### **Thesis Committee**

Prof. Urs Peter Flueckiger (Thesis Chair) Prof. Glenn. E. Hill Dr. Saif Haq







- Online e-store
- Branding
- Case Study
- Technical Feasibility
- Proof of Concept
- Conclusion
- Credits/references

#### Online shopping is on the rise...

#### The numbers...

By 2008, Forrester research says, online shopping will account for 10 percent of all purchases and involve 63 million U.S. homes

American consumers spent nearly **\$6.2 billion online in November** (2002), up 22% from \$ 5.1 billion spent in the same period last year (2001) in the U.S., according to a report from Harris Interactive, Goldman Sachs, and Nielsen/ Net Ratings.



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### Shopping online...

- •Log in
- •Compare prices
- •Check availability at a local store
- •Calculate Shipping and Handling
- •Have it door delivered

#### **Exclusive internet offers like online rebates**

All from the comfort of 'home' Harsh weather no longer deters

No more walking from store to store

#### Welcome to the world of Online shopping!

Why?

Online e-store

Branding

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#### **Branding is important**

With more and more people thronging the online stores...

Internet is becoming a potential Marketing and Branding Zone

Branding of the website is becoming important

Branding is the way a company communicates with the customer.



Branding

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#### Branding

Reflects the unique identity of a brand Strengthens the Brand

**Increases Sales** 

#### Nike

→ Product placement (celebrity endorsements) [ADVERTISEMENTS]

In the **1984 Summer Olympics**, with 58 Nike supported athletes taking home **65 medals**, International sales increased **70%** (\$158 million)



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#### **Architecture and Branding**

Architecture, layout, lighting

Reflect Brand values (Visual Identity)

#### **Examples:**

NikeTown

**Prada Flagship Store** 

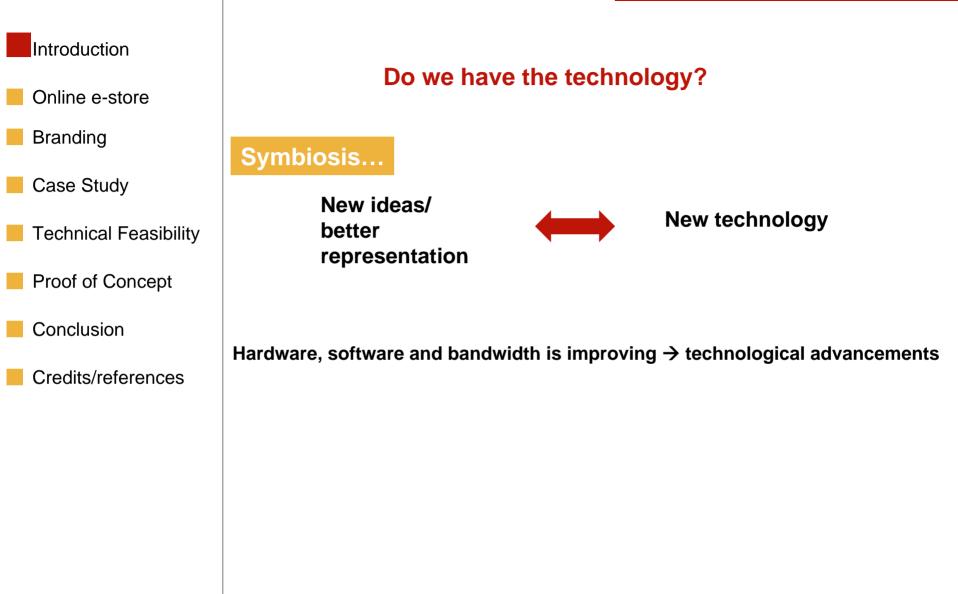
These stores create unique brand experiences

And the amount of time a shopper spends in a store depends on how comfortable and enjoyable the experience is. –Paco Underhill "Why we buy? The science of shopping"



home

	Introduction
<ul> <li>Introduction</li> <li>Online e-store</li> <li>Branding</li> <li>Case Study</li> </ul>	Online Branding Webpage design → reflects brand values →brand experience
Technical Feasibility	
<ul> <li>Proof of Concept</li> <li>Conclusion</li> <li>Credits/references</li> </ul>	Interactive Virtual Architecture →new tool → new brand experience Virtual Architecture → Visual Identity Interactivity → Non Visual Identity
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#### **Thesis Claim**

Interactive Virtual Architecture is a new tool for Online Branding

Method:

Logical argumentation and case study method

**Evidence:** 

**Advertisements and Branding** 

Architecture and Branding

**Online Branding** 

**Technical feasibility** 

Proof of concept: Design of an e-store for Swatch with •Virtual Architecture •Interactivity •Multimedia

#### Target Audience:

Broadband users and the tech savvy populace

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•components of e-store

•e-store guidelines

•summary



#### **Components of an e-store**

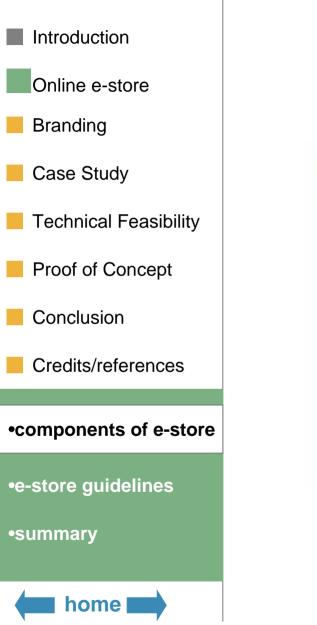
#### The fundamentals [Front end]

#### **Product:**

2d image /3d product simulation

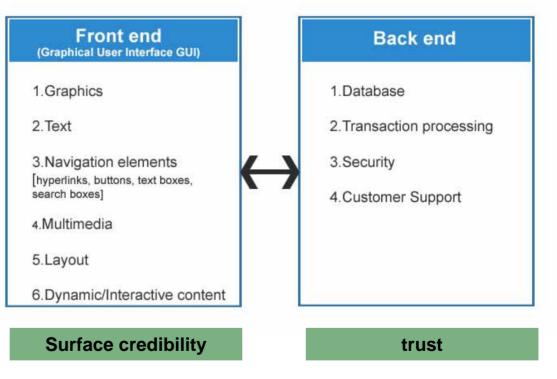
**Environment:** 

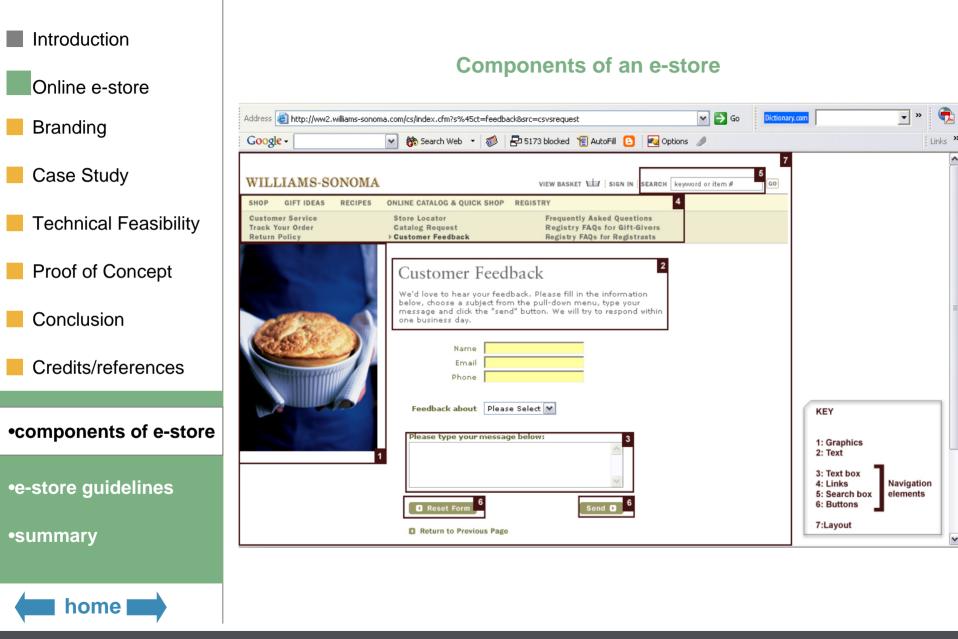
Visual design [Interface] with the navigation tools like links.



#### **Components of an e-store**

#### The skeletal structure





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#### e-store design guidelines

Some important considerations while designing a website (e-store)

- •Loading time
- •Ease of Navigation
- •Language and Communication
- •Layout
- Interactivity

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"The one-second response-time limit is required for users to feel that they are moving freely through the information space. Staying below the 10-second limit is required for users to keep their attention on the task." -Jakob Nielsen

#### Loading time

Don't make the users wait too long for the page to download

Faster the page loads  $\rightarrow$  more customers

#### e-store design guidelines

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#### e-store design guidelines

#### **Ease of navigation:**

Where am I? Where have I been? Where can I go?

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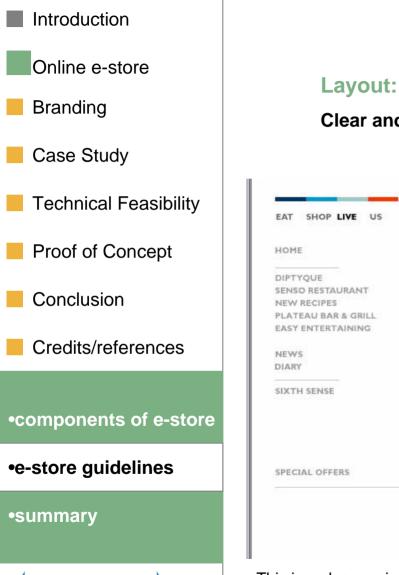
According to a survey by Georgia Tech's Graphics, Visualization and Usability (GVU) Center in October 1997, 'The number one request that scares the user is 'please enter your credit card information' followed by 'tell us more about yourself'

#### e-store design guidelines

#### Language and Communication

No Jargon No verbosity –Keep it Simple

www.conran.co.uk



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e-store design guidelines

#### **Clear and consistent**



This is a clear navigation, which highlights the segment (link) the user is in and also has links to the other segments of the website.

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#### e-store design guidelines

#### Interactivity:

#### Unique to the Online media as

User takes control and participates than being a passive observer Virtual Host Chat windows Interactive product simulation

#### http://www.alicebot.org/





## Introduction Online e-store Branding Case Study **Technical Feasibility Proof of Concept** Conclusion Credits/references components of e-store design •e-store guidelines summary home

#### **In Summary**

•Effective Front End and Integrated back end •Interface [Front end] with •less load time, •easy navigation, •simple language, •clear layout and •interactive content are fundamental structure of an e-store design

HOME: High Quality content Often Updated Minimal download time Ease of Use -Nielsen

Branding is a layer added to the skeletal system

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#### What is a brand?

#### Brand:

"A mixture of tangible and intangible attributes, symbolized in a trademark, which, if properly managed, creates influence and generates value. It is a 'relationship', a 'reputation', a 'set of expectations', a 'promise'."

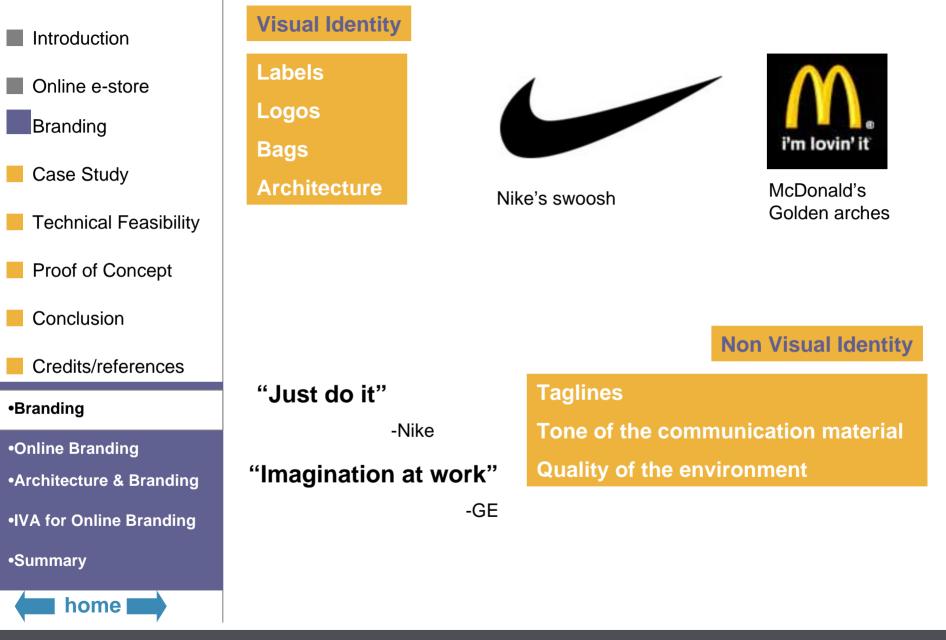
#### What is a branding?

**Branding**, in all its shapes and forms, comes down to how an organization presents itself and more importantly, how its audience perceives it. It has grown beyond a simple visual depiction to more of an attitude, enforced through a series of interactions a person has with any one organization.

Branding

Non Visual identity

**Visual Identity** 



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#### Key Characteristics of great brands

- 1. Clarity of Vision
- 2. Consistency across media
- 3. Leadership

**Gillette**, a manufacturer of shaving accessories, has been remarkable successful at managing the brand for long-term strength. It is **clear** in positioning and values, **consistent** in brand presentation and personality, and **leads** technology and customer understanding in its sector.

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#### Branding strategies for various media [establishing a dialogue...]

Print – Frozen still image [strength of the visuals and tone of the language] Television –Visuals, motion, pause, voice, music

**Environmental design** – architecture, lighting, music, fragrance

Internet – Interactivity, visual design, multimedia



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#### **Online Branding**

#### Online Brands

YAHOO!

Yahoo ----- email

Google

Google ----- search

amazon.com.

Amazon---- books and e-commerce

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#### **Online Branding Strategies**

#### Visual Identity → Brand recognition

Visual Design (Color scheme, layout, typography, navigation)

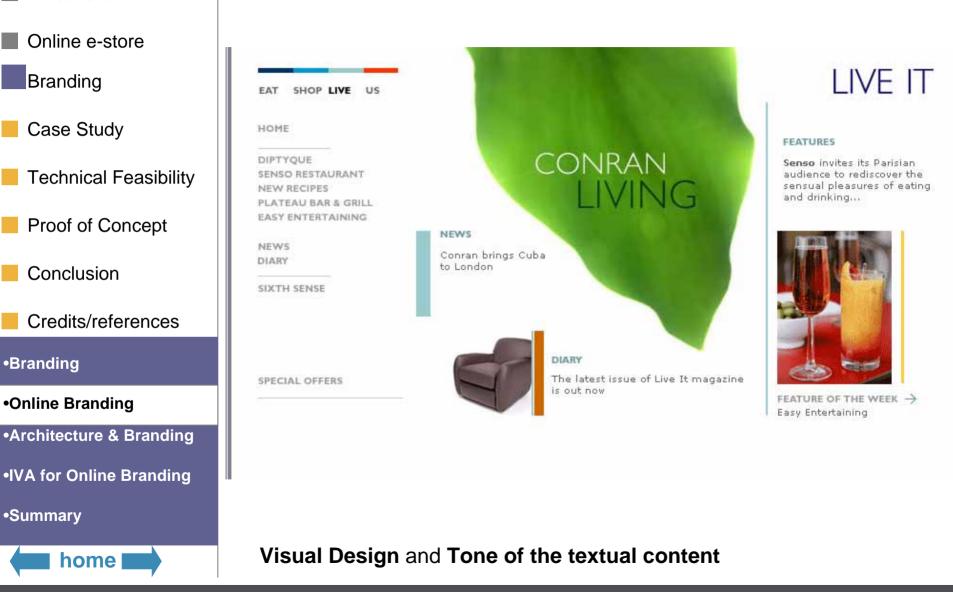
#### Non Visual Identity $\rightarrow$ builds relationship

Taglines, tone of the textual content, interaction design

'According to Jerry Johnston, president of Critical Mass, the Canadian based interactive shop that won the Nike ID redesign in May1999, mass customization defines the future of online branding. The brand would now adapt to the fit the individual and not the other way round.'

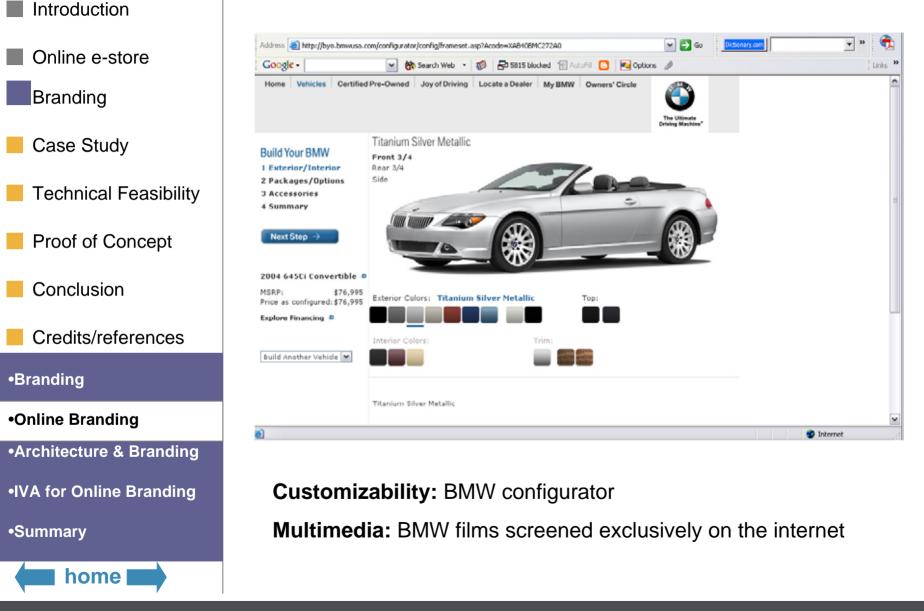
#### www.conran.co.uk

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#### www.bmwusa.com



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There is an acknowledgement of the need for Online Branding Technology is influencing communications Branding is extending into the Online Media

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#### **Architecture and Branding**

#### **Brand Experience**

[ Architecture, lighting, layout, color scheme, graphics, landscape, music, fragrance, interactivity ]

Staging the product is important, hence design of the context is important

Architecture becomes a billboard for the brand reflecting the personality of the brand in the architecture

Retailers such as Marchall Field's in Chicago and Wanamaker's in Philadelphia recognized, as nineteenth-century mercantilists had not, that seeing products was not merely a matter of placing items on shelves and waiting for consumers to buy them. Instead products had to be staged within culturally desirable spaces.

#### Branding...

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#### Prada Flagship store in SoHo district of New York

Confluence of architecture, media, technology and fashion Change is the constancy of the store



Architects: Rem Koolhaas and Kazuyo Sejima



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#### Architecture enhances the experience of the brand by

•Staging the product

•Branding to compliment the product

•Creating a Visual Identity for the brand

Extrapolating  $\rightarrow$  Online  $\rightarrow$  Virtual Architecture for Online Branding

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**Interactive Virtual Architecture for Online Branding** 

**Components of Interactive Virtual Architecture** 

#### Virtual Architecture [Visual Identity]

-creates a context

#### Interactivity [Non Visual Identity]

-engages the consumer

-establishes the dialogue

#### **Virtual Architecture**

•Reflect the brand

•create a brand statement

•Doesn't have to have semblance to real world counterpart

#### Interactivity

•Dynamic content [live chat, virtual host]

•Custom configuration

•Walk around the space, view product in 3d

#### Branding...

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#### Interactive Virtual Architecture is a promising tool

- •New media of expression
- Creates unique identity
- •Portrays the brand
- •Stages the product
- Facilitates interaction
- •Would let the customer sculpt the environment to their liking
- •Early adopters will establish themselves and stand out from the crowd And it opens a new market for architects to specialize in

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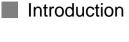
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#### In Summary...

#### Clarity, consistency and leadership across different media.

Media of communication	Visual Identity (Brand recognition)	<b>Non Visual Identity</b> (builds relationship)
Print	Image, graphics	Tone of the text, tagline
Television	Image, graphics, pause, motion	Music, tone, voice
Environmental design	Architecture, signage, graphics, lighting, layout, landscaping	Ambient music, fragrance, architectural experience, customer support
Online (Internet)	Visual design( color scheme, layout, typography, navigation), multimedia [IVA- Virtual Architecture]	Interactive experience design tone of the textual content, multimedia [ IVA-Interactivity ]



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•Online

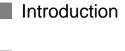
Summary



#### The case study will show

Innovative use of the channel → increases brand image → increase in sales
Early adopters of technology → set the brand apart from the crowd
Clarity of vision, consistency and leadership → success of brand





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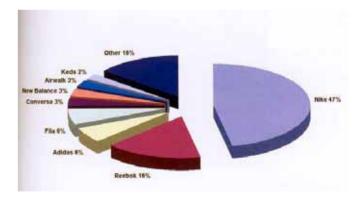


## Branding Strategy [clarity of vision]

Nike would not promote or sell shoes per se, but what they represented-"the athletic ideals of determination, individuality, self sacrifice and winning"

Kept it consistent across media

**Leadership** reflected in innovative design, out of the box campaigns, pushing the limits of technology



"It is Nike's shift "from pure performance to brand-conscious product development" that accounts for its stellar 47 percent share of the American sports apparel and shoe market."

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•Architecture

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# Nike- Advertising

## "Spirit of the sports"

Campaigns:

1983- City campaign with billboards across the city [visual presence]

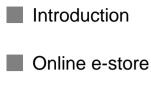
1984: 58 Nike endorsed athletes took home 65 medals. International sales increased 70%

1986: Michael Jordan becomes an icon for the brand. Revenues topped the billion-dollar mark, reaching \$1.07 billion

1996: "You don't win silver, you lose gold." tagline [non visual identity] for the Atlanta Olympics



City campaign



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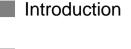
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## **Nike- Advertising**

## Reasons for the success of the strategy

- •Celebrity endorsements
- Product placement
- •Harnessing people's perceptions
- •Consistent Theme "spirit of sports"
- •Appeal to the individual's spirit of athleticism



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In essence, this (NikeTown) is fashion shop as excited advertisement, where vertiginous staircases, complex floor plates, explosive sounds and serial video screens are brought together to insert brand consciousness into the urban masses.

## **NikeTowns**

Consistent with the city campaigns, in 1991 Nike launched NikeTowns reflecting Nike's version of the city in the architecture of the space.

Nike- Architecture for branding



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## Advertising

•Architecture

•Online

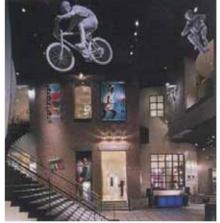
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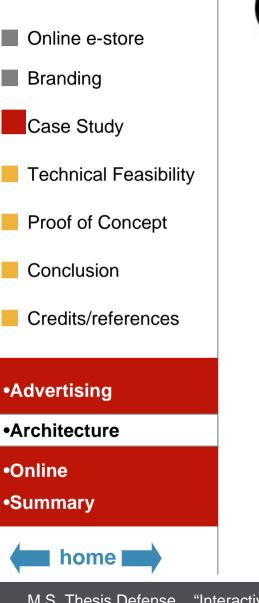
Nike- Architecture for branding

## NikeTown,Orange County, California





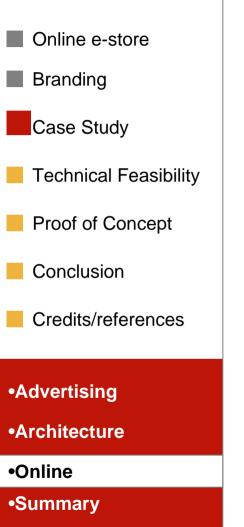
Town square theme Concrete floors Central space-several stories high, displays like storefronts Scattered movement corridors Outdoor court- 15deg cooler, artificial fragrance of mountain air



## Nike- Architecture for branding

Architecture for branding...

Strong themeing to reinforce the brand values





## Nike- Online branding

### Nike's website

Reflects the spirit of the times Early adopters of technology Reflects passion, speed, energy of sports Nikelab has a 3d virtual architecture and new interactive technology

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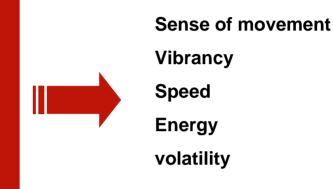
Sharp geometries Clean lines Acute angles Simulation of speed Upbeat music Voice-over High tech lab environment feel

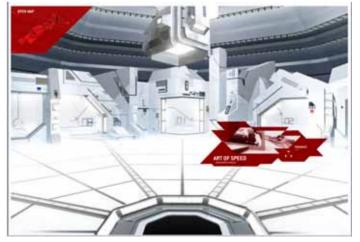
**3d Virtual Architecture** 

www.nike.com/nikelab

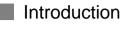
**Nike- Online branding** 

Design: R/GA, New York





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Nike- Online branding

**Product presentation** 

## **Peel away process**

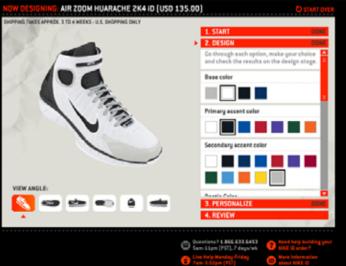
www.nike.com/nikelab

Design: Tronic, New York

## **Customizability-Nike ID**

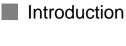
www.nike.com/nikeid





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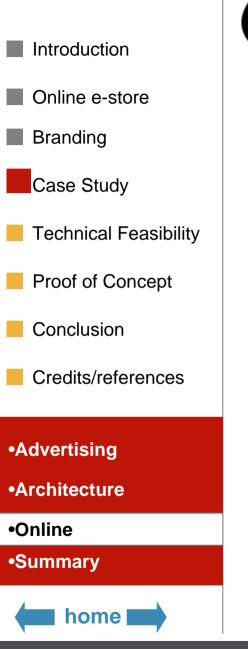
**Nike- Online branding** 

## **Multimedia**

Interactive story telling →story of the design concept of shoes Interactive games →entertainment Videos on the theme 'Art of Speed'



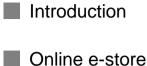
Art of speed -Nike



## Nike- Online branding

## **Nikelab**

3d Virtual Architecture → Visual Identity
Interactivity and Multimedia → Non Visual Identity
Shares the qualities of great brand
Clarity
Consistency
Leadership



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## In Summary...

## The case study showed that Nike

Innovatively used the channel → increasing brand image → increasing sales
Early adoption of technology → sets the brand apart from the crowd
Clarity of vision, consistency and leadership → success of brand

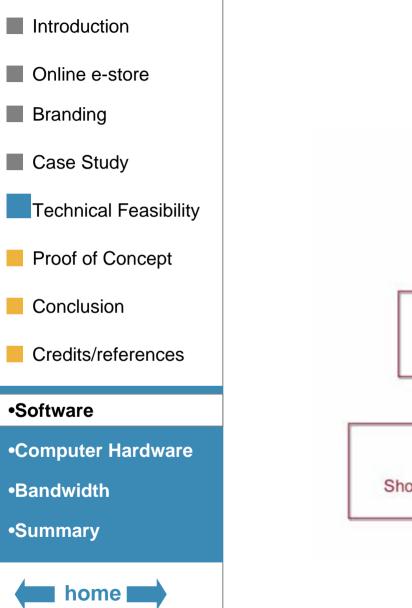
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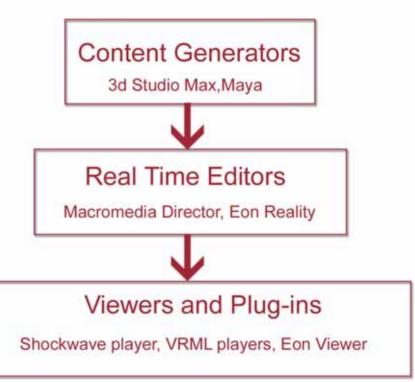


## **Technical Feasibility**

Real time technology: <a href="http://www.eonreality.com/">http://www.eonreality.com/</a>

- 1. Software
- 2. Computer Hardware
- 3. Bandwidth





**Software** 

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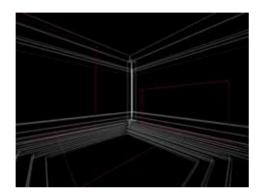
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### Software

- •Computer Hardware
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Wireframe model of the 3d geometry



3d Model with textures



3ds Max Maya

Rendered 3d model

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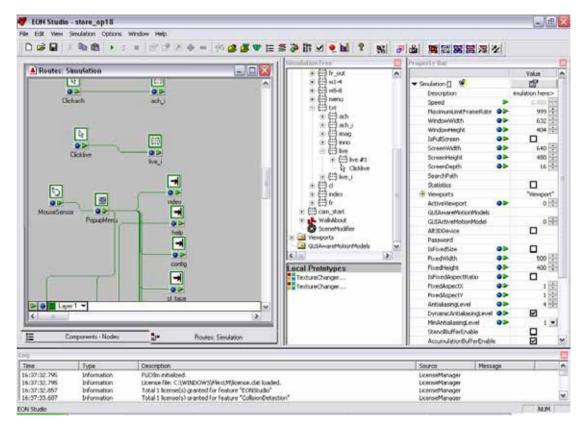
### Software

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## **Software- Real Time Editors**



### Eon Reality interface

**Macromedia Director** 

**Eon Reality** 

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•Computer Hardware

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## **Software- Viewers and Plug-ins**

Macromedia Director – **Shockwave Player** Eon Reality –**Eon Viewer** 

### the edge > 04. Bulletin: Microsoft Internet Explorer Browser Changes Percentage of Internet-enabled PCs 100 0 Macromedia Flash Player 97% Java 91% Active Content Adobe Acrobat Reader 81% Macromedia Shockwave Player 63% **Microsoft Windows Media Player** 59% **RealOne Player** 56% Apple QuickTime Player 41%

63% users have shockwave player installed

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## **Computer Hardware**

## **Processor Power**

More polygons  $\rightarrow$  more rendering time  $\rightarrow$  more processing power

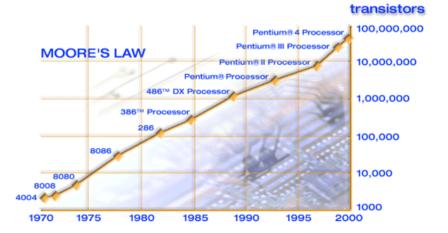
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- Credits/references
- •Software
- •Computer Hardware
- •Bandwidth
- •Summary



## **Computer Hardware**

Moore's law:

## Processing power doubles every 18 months



- Online e-store
- Branding
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## **Computer Hardware**

## Increased fidelity in Games



Image of Doom1(1993)



Image of Quake(1996)



Image of Doom3 (2003)



Prince of Persia (2003)

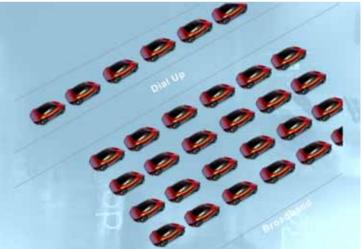
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## Bandwidth

"Bandwidth has the general meaning of how much information can be carried in a given time period (usually in a second) over a wired or wireless communications link. In digital systems, bandwidth is expressed as bits of data per second (bps)"

Dial up: 28.8-56kbps (Kilobits per second) [date transfer rate ]
Broadband: (1000kbps) [date transfer rate]
Cable
DSL
WiFi (Wireless)



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## Bandwidth

Jupiter analysts forecast that the **number of households** (in the US) accessing the Internet via **broadband** connectivity (cable, DSL, satellite or fixed wireless) will increase from 5.2 million in 2000 to 35.1 million in 2006, with cable modems leading the way. (Oct 2001)

US home broadband connections have increased from 38% in July2003 to 51% in July2004. (Nielsen/NetRatings, Aug 2004))

According to Nielsen /NetRatings, more than 50% of the Web-surfing public is doing so via broadband connections.

59% →18-20 year olds

58%  $\rightarrow$  2-11 year olds

55%→25-34 year olds

53%  $\rightarrow$  21-24 year olds

 $34\% \rightarrow 65-99$  year olds

-Aug 2004, Adage



M.S. Thesis Defense "Interactive Virtual Architecture as a tool for Online Branding of e-stores" © a r t h i a m a r a n 2004

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## **Issues and further research**

### Issues

- •Large File Sizes
- Internet Bandwidth
- •Human Computer Interactions (HCI)
  - **Research** is close to commercialization for the use of **tactile** and **olfactory** features

http://www.trisenx.com/product.html

http://www.immersion.com



Haptic mouse: Nostromo n30 Game mouse **(46\$)** 



Orbit 3d USB mouse: The Orbit® 3D takes your Web experience to a whole new level, by allowing you to actually feel buttons, icons, links and more as you scroll across them.

Online e-store

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**Design of the Swatch e-store** 

### **Online Branding:**

•Visual Design [Visual Identity]

•Interactivity [Non Visual identity]

•Multimedia [Visual identity, Non Visual identity]

The Swatch e-store has a Virtual Architecture, it is Interactive and has multimedia features to create Online Branding.

http://www.arch.ttu.edu/visualization/5345-VIZ-Studio-FA03/Amaran/thesis/final/swatch.html



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## Attributes of a great brand:

**Clarity, consistency and leadership** 

Online branding: Visual Identity → Brand recognition Visual Design (Color scheme, layout, typography, navigation, [IVA-Virtual Architecture] ), multimedia

Non Visual Identity → builds relationship Taglines, tone of the textual content, interaction design, multimedia, [IVA-Interactivity]

Interactive Virtual Architecture is a new visual design medium for online branding

We have the technology to realize Interactive Virtual Architecture



## Conclusion...

### Introduction

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### **Further Research**

- •Multi User Interface
- Intuitive User Interface for for better HCI in a 3dRT environment
  Integration of Virtual Host, Live Chat and Personal Digital Assistant
  Tactile and Olfactory features for a more immersive environment

Opens a new market for architects to specialize in Virtual Architecture design for the online media



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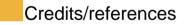
## And finally...

Walk into a virtual store, have a digital assistant assist you in your shopping, interact with other shoppers, interact with the product on display and interact with the architecture. Have the architectural style change to suit your taste, walk into a landscaped court, smell the fresh blossoms and feel the textures and get doused in the virtuality of the environment.

Step into the realm of Online Branding!



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home

## Thank you!

# Thanks to every soul\* that was associated with my thesis!

Please refer to the thesis manual for a complete list of references.

\* Includes Dell Dimension 8300, books, internet, music and nature and all the people who brightened up the days!