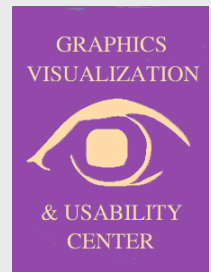


InfoCanvas: Information Conveyance through Personalized, Expressive Art



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College of Computing/GVU Center
Georgia Institute of Technology



Peripheral Awareness Information



- Peripheral to a person's main job
- Desirable to maintain some awareness
- Large amounts now easily accessible

Yahoo! Finance - ^IXIC - Netscape

File Edit View Go Communicator Help

Location: <http://quote.yahoo.com/q?s=^IXIC&d=1d>

Monday, March 26 2001 8:06am ET - U.S. Markets open in 1 hour a

NAS/NMS COMPOSITE (NasdaqSC: ^IXIC) - More Info: [News](#) - [T](#)

Last Trade Mar 23 · 1928.68	Change 0.00 (0.00%)	Prev Cls 1928.68	Volume N/A
Day's Range 0.00 - 0.00	Bid N/A	Ask N/A	Open N/A
52-week Range 1794.21 - 5022.23	Earn/Shr N/A		

Copyright 2001 Yahoo! Inc. Prev (Sp:

Netscape

File Edit View Go Communicator Help

Location: [AMS=on&SPDS=on®ION=OVERVIEW](#)

Yahoo! ...

Login Message

Friends Y! Help

Message Chat Call

Friends for - Kiawah2

- doctoverne
- frauen1
- gt8167c (Idle)**
- hrichter
- khai_truong

Yahoo! Help

Status I'm Available

Connected

weather.com - Local Weather - Atlanta, GA (30309) - Netscape

File Edit View Go Communicator Help

Location: <http://www.weather.com/weather/local/30309>

34 °F **Wind:** From the North at 12 mph gusting to 20 mph **UV Index** 0 Minimal

Dew Point: 13 °F **Humidity:** 42 % **Visibility:** Unlimited **Barometer:** 30.17 inches and rising

Fair Feels Like 19 °F

Temperature Converter - Enter a number and click outside the box

F: C: reset

[Averages and Records](#) | [Detailed Local Forecast](#) | [Hour by Hour Details](#) | [Regional Audio Forecast](#)

1d | [5d](#) | [3m](#) | [1y](#) | [2y](#) | [5y](#) | [max](#)

Basic

Compare

Dem Post It 2000 light

To Do:

- Call Mother
- Write report
- Wash car
- Buy groceries
- Study
- Book flight
- Return movie

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Williams

Williams

hut Truo

rominkpen

Elaine May Hu

Heather Richt

Michael Andre

Linda Williams

1324/4086K/0K

Stephen Geer, Thu...

10 Day Forecast

Atlanta, GA (30309)

Monday, March 26, at 7:34 AM Eastern Standard Time

	Hi (°F)	Lo (°F)
Today	54 °F	30 °F
Mar 26	Partly Cloudy	UV Index: 8 High
Tue	55 °F	33 °F
Mar 27	Sunny	UV Index: 8 High
Wed	59 °F	44 °F
Mar 28	Partly Cloudy	UV Index: 7 High
Thu	60 °F	51 °F
Mar 29	Rain	UV Index: 4 Low
Fri	67 °F	50 °F
Mar 30	Showers	UV Index: 5 Moderate
Sat	72 °F	52 °F
Mar 31	Mostly Cloudy	UV Index: 7 High
Sun	73 °F	55 °F
	Mnstrly Cloudy	

Explore Related Sites

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NotCard | [As low as 2.99% Intro APR-Rewards Points-Apply Now!](#)

ClassMates [Your 24 hr/7 day a week High School Class Reunion on the Net](#)

Go Shopping

Maps

Doppler Radar 600 Mile

Precipitation Intensity

Light Heavy

Show map in motion Click to enlarge

How to read this map Go to maps index

Doppler Radar 600 Mile

to purchase. Thursday, and may well times and markets.

to propose rate hike

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ay, three-state tour

l week preview, 10 a.m. EST

N's News Site, 10:30 a.m. EST

ovie reviewer Paul Clinton, 11:30 a.m. EST

Paul Vercammen: [The Academy Awards](#)

NETBALL

Illinois

ite holds off Temple

n takes initiative just in time

business world

computing

Problem



- Display overload
- Checking information distracts people from their work
- Requires a cognitive context switch

Possible Solution

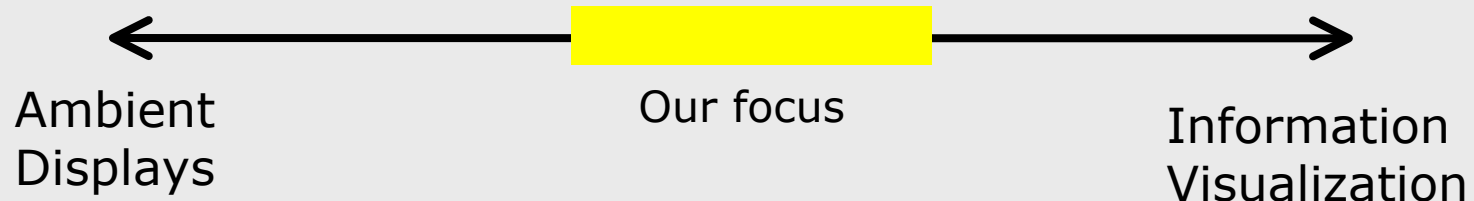


- Ambient displays
 - Off the computing desktop
 - Physically based (eg. Moving lights, water lamp, bubble chambers)
 - Characteristics
 - Low bandwidth
 - Predetermined source of information
 - Non-distracting?

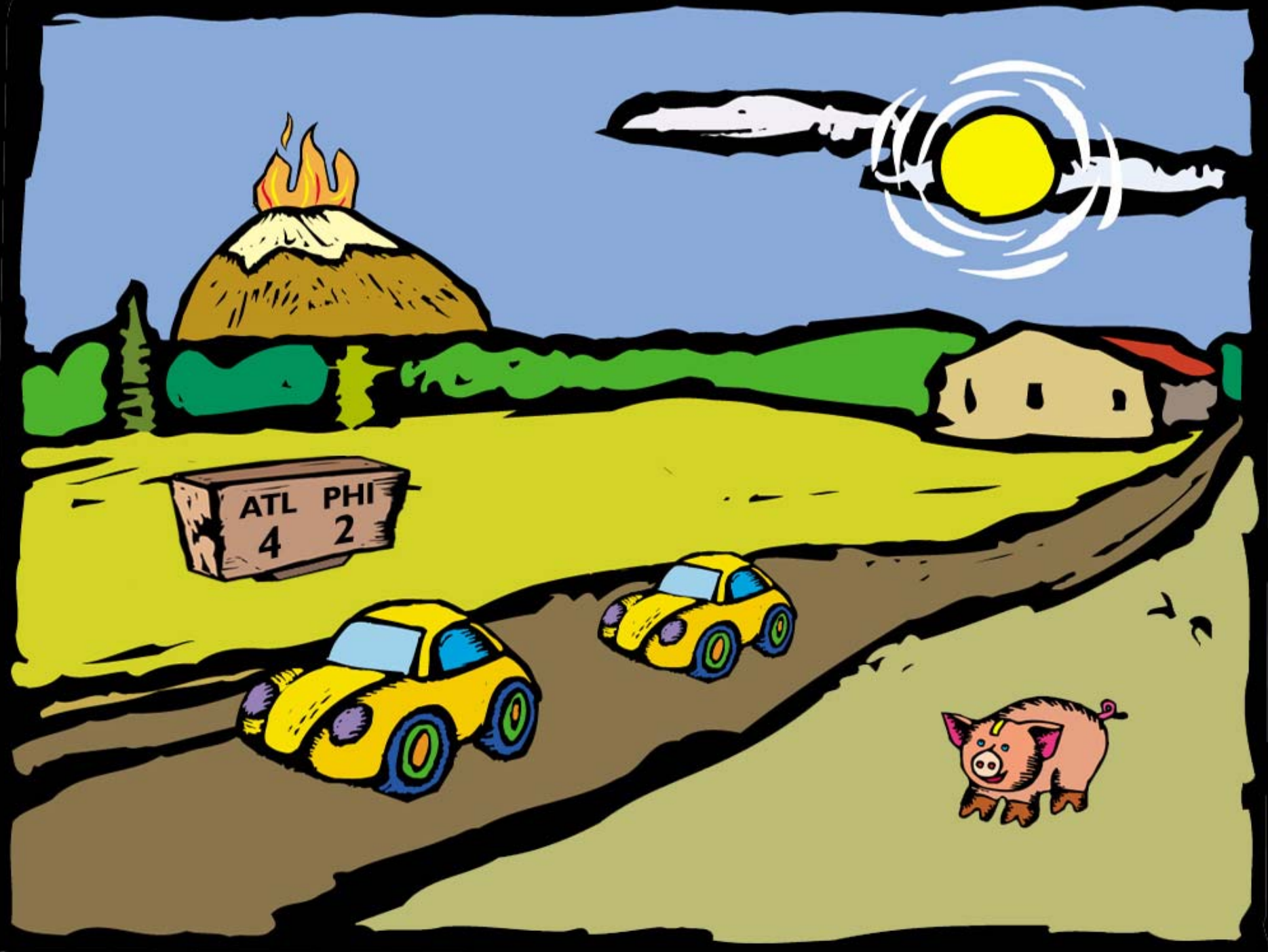
Information Art



- Hybrid ambient display
- User designed visual representation
 - Flat panel display
 - Mimics a painting hung on a wall
 - Personally relevant peripheral awareness information







Current Status

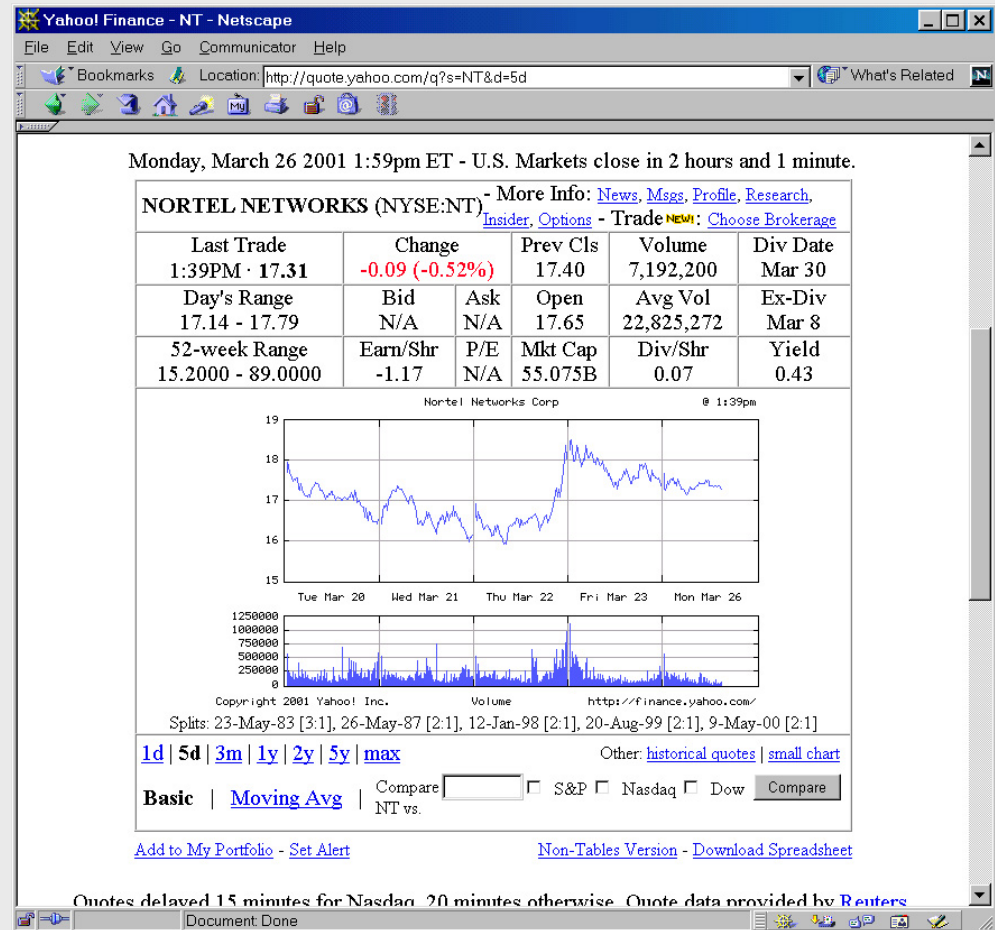


- Early system prototype
- Initial focus on email and web pages
- Simple information representations
 - Basic drawing tools
 - Imported icons and images

Short Example



1. User finds information
2. Defines it for the InfoCanvas
3. Paints a representation
4. InfoCanvas monitors and updates



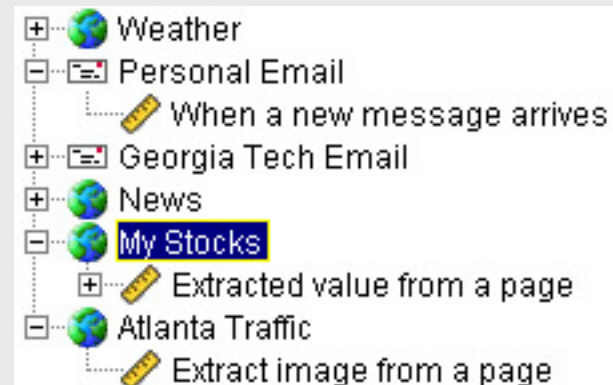
Short Example



1. User finds information
2. **Defines it for the InfoCanvas**
3. Paints a representation
4. InfoCanvas monitors and updates

Source name: My Stocks
URL: http://quote.yahoo.com/q?s=NT&d=5d
Cancel Ok

HTML prior to value: Last Trade
Minimum value: 0
Maximum value: 100
Cancel Ok



Short Example



1. User finds information
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Short Example



1. User finds information
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3. Paints a representation
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Related Work



- Play Institute - InformativeArt
 - Modifies existing abstract art
 - Minimal end-user customization
 - Particular sources of information
 - Email server flow, web site traffic

Redstrom, Skog, and Hallnas, DARE 2000

Future Work



- More sources of information
 - Sensors, PDA, ...
- More representations
 - Enable talented artists
- Robust implementation
- Evaluation

For more information



- tomiller@cc.gatech.edu
- www.cc.gatech.edu/gvu/ii/infoart/