Playing in Traffic

Building a Stronger Community Through Playful Transportation

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Introduction

"Hi, I'm certainly glad you could join me today." - Bob Ross

Thursday, April 23, 2009

Bob Ross was a painter with a TV show on PBS in the 80s and early 90s. He was an inspiration for us on this project, and we will be sharing a few more of his quotes with you. While this is a quote, we also are certainly glad you could join us today!

We define citizenship as encouraging behaviors that enhance the Bloomington community, where community means the complete, multifaceted experience of this regional location. This goal is consistent with the mission of BEAD, which seeks to "bring the business and creative sectors together to advance commerce and culture, build community, and spur economic









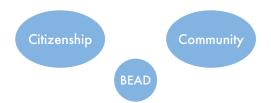


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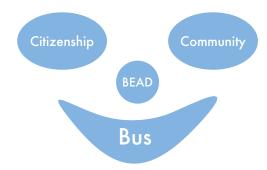
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BEAD: focus on the "get people here" core value - want to get people downtown, not just anyone, but students, visitors, new transient populations, who are walkingl and more apt to make a purchase experience downtown

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Citizenship Community
BEAD



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experience downtown

also "keep bloomington bloomington"

Thursday April 23 2009

...by utilizing the existing communal public transportation system. We believe we can not only "keep Bloomington Bloomington" but also make Bloomington MORE Bloomington by using digital wayshowing to design a more Bloomington bus system.

Thursday, April 23, 2009

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Predispositions

"Anybody can paint a picture that they're proud of."

— Bob Ross

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Some assumptions we can make about community...

Connecting with a new community can be difficult.



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While there may be plenty of information available about a community, the only way to really appreciate it is to know that community.

To be a part of a community, one must interact with it.



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A community isn't just about location, size, infrastructure, etc... it's about the people living in it. You can't have a community without people, and you can't know a community without knowing the people

Buses Are Community Spaces



 $_{\mbox{\scriptsize Our opportunity space.}}^{\mbox{\scriptsize Thursday, April 23, 2009}}$ our opportunity space. 'nuff said.

Research

"It helps when you're doing these kind of things, maybe make up a little story in your mind." — Bob Ross

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We did primary, secondary, and existing technology research.

Primary Research

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We rode the bus multiple times...

Planning

Trip planning can be difficult and time consuming.



Waiting

Waiting for a bus can cause undue stress and anxiety.



Boarding

The social norms and customs associated with riding the bus can be mysterious to new riders.



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...taking routes we were unfamiliar with. Even after deciding where to go, it took us quite some time to find out how.

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Riders waiting for their bus have many questions on their mind. "when will my bus be here? did I miss it? where is the bus now?" among others. This "unknown" element of riding the bus could be a roadblock for some.

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This was my first trip on a city bus. Having ridden the IU bus before and seeing the utter confusion on the driver's face when I presented my ID, I did not have my ID out when the Bloomington bus pulled up. The bus driver was forgiving, but irritated. "n00b!"

Riding

While some interaction between acquaintances does occur, most riders tend to keep to themselves.



Disembarking

When visiting a new location, it can be difficult to know the appropriate time to disembark.



Errors can be costly.



Most people were reading, doing homework, listening to music, and otherwise giving off a "leave me alone" vibe. We broke a lot of social norms while riding by taking pictures, talking

Our maps were out and we were obviously new to the route. Likely because of this, a stranger offered help when we seemed unsure when to disembark.

We learned the hard way that small errors can result in drastically compounded loss of time when we misread the bus schedule and had to wait an hour for the next bus. Had we taken the wrong bus or stop we could have ended up miles from where we needed to be.

Secondary Research

We found some surprising facts while conducting secondary research. :)

Attitudes

Riders don't mind spending time in transit, but dislike waiting. Reliability is more important than time.



People are generally comfortable with spending time inside of vehicles, but seek to minimize time spend outside of vehicles waiting, of walking to and from locations. Currently, cars offer best options for minimizing out-of-vehicle travel time.

People are more interested in being able to get to a destination reliably on time, than in minimizing total travel time. People are more likely to choose a slow but reliable method than a fast but variable method.

Benefits

Not only is public transit a benefit for those without means of private transportation, it provides conveniences for others in the community as well.

Information **Systems**

Information should be presented at the point of decision. Accuracy is vital.



Information is not useful or relevant to passengers after they have made decisions about which route to take and when

Passenger information systems that offer unreliable estimates, or are unclear about the nature of information being presented, increased passengers' uncertainty and arxiety.

The Transportation Landscape



Exemplar, or existing technologies research. There's some neat stuff out there!

Google **Transit**

www.google.com/transit



Thursday, April 22, 2029
Google Transit is a program that allows public transportation authorities to import their route information and schedules into Google Maps. Citizens can enter their starting and ending points, and Google Maps will guide them to the necreal bus stop, list the next arrived line, and even help them novigate bus transfers. Boulder, Colorade's a only a bit larger than Bloomington and hosts a large University, and their transit unitary but interpreted their system with Google Maps.

Artsy Shelters



Artsy Shelters



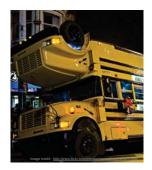
Shark Bus



A simple shelter in Seattle has become a noteworthy landmark with the addition of a creative Shelters take on a private feel. This "living room" is located on the island of Unst in Scotland.

Some buses are being used creatively for advertising. This design takes advantage of the

Topsy Turvy Bus



Insights

"We want happy paintings. Happy paintings. If you want sad things, watch the news." - Bob Ross

Make **Connections**

Encourage new Bloomingtonians to connect with the community via public transit.



Topsy Turvy Bus makes a political statement about the state of the US budget. Commissioned by Ben & Jerry's.

Build Character

Reflect the unique character of Bloomington.



Have Fun

Provide timely, accurate information in a fun and engaging way.



Concepts

"We don't make mistakes, just happy little accidents." - Bob Ross

Transportation systems do contribute to the character of a locale. Buses in Bloomington are much like buses in other cities, we have an opportunity to make Bloomington buses a unique community experience.

Propose unfamiliar with the norms of riding a bus can be confused and intimidated by the process of trying to ride a bus. Individuals do not have control over when or where a bus travels, so getting this information accurately is the key to avoiding and recovering from errors when traveling on a bus.

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Walking

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As Lorelei pointed out in our secondary research, bus transportation benefits non-riders, too. Quite a few of our concepts are aimed at bringing the presence of public transit in the community to the notice of the casual observer.

Art Shelter



Bus shelters could draw attention as public displays of art. This would bring notice not only to the art, but also to the presence of the bus system as a part of the community.

Art Shelter



The artwork used here is actually located on S. Washington street near Sahara Mart.

Contextual Ads



Contextual ads would change relative to the buses location, using GPS technology to display ads for nearby businesses to pedestrians.

Contextual Ads



Ads could also be time and area specific (IU campus in April).

Art Bus



The Art Bus could use LED technology to display works of art, bringing the art to the public.

Bus of a Different Color



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The bus of a different color would change colors to reflect the BEAD district it is currently in. It's a sign on the move! Imagine you are shopping in the market district and you see a green bus.

Bus of a Different Color



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While enjoying lunch on restaurant row, you notice the buses are pink.

Bus of a Different Color



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and as you walk to Kirkwood, you see the buses change to red!

Ad Bus



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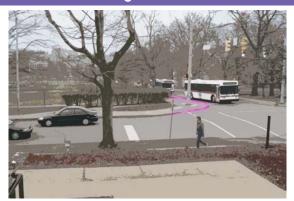
Funding for the art bus and bus of a different color is provided by...

Light Path



Thursday, April 23, 2009
Often pedestrians are unaware of the bus routes.

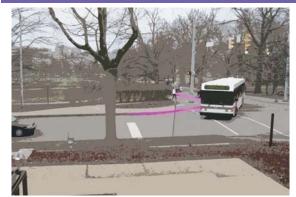
Light Path



Thusday, Jon 23, 2009

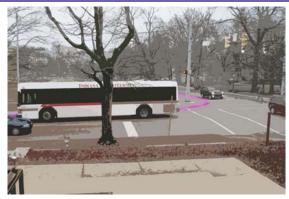
A light path would illuminate the path the bus takes, providing cars and pedestrians advance warning

Light Path



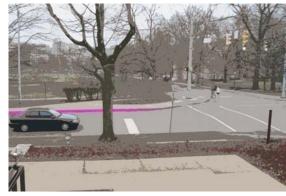
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Light Path



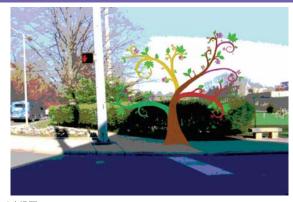
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as well as showing those waiting when their bus is coming

Light Path



Thursday, April 23, 2009 or whether they just missed it.

Bloomingtree



Another opportunity to display public art.

Root Path



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The light path might take the form of roots as lights leading toward...

Root Path



Thursday, April 23, 2009 ...or away from the tree.

Bloomingtree

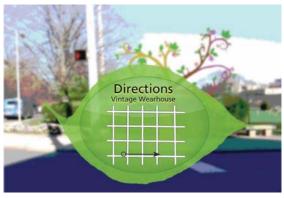


Bloomingtree



In case you are hungry, this really is the special for today (Thursday) at FARMBloomington!

Bloomingtree



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Information access could be limited to wayfinding in Bloomington specifically.

Planning



Google Transit



Will Google Transit be able to display real-time GPS in 10 years? A map displaying the real-time location of buses could be accessed by computer, smart phone, or at a display at the bus stop. Yes, those are mustaches. We'll get to that concept in a minute.

Ticket Bundles



Pre-planned packages could bundle bus-rides with tickets and vouchers for restaurants and other destinations. Such a package could provide unfamiliar riders with the confidence and direction they need to discover this facet of Bloomington's character.

Waiting

Bus Cam



Bus Cam



5R Thurs

Bustache



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A mustache could identify specific routes or individual buses.

Bustache



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A fiber optic bustache glows in the dark.

Avatar Bus



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Represents an individual bus driver. Goal is to encourage riders to get to know their drivers as part of the community (and vice versa).

Boarding

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Mood Bus



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The driver wears a bio-metric harness which interprets vital signs into different moods, giving the rider fair warning!

Mood Bus



Thursday, April 23, 2009
Perhaps a sad face might stimulate conversation between rider and driver.

Mood Bus



Thursday, April 23, 2009
We might wait for the next bus.

Mood Bus



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A video camera records and filters a real-time video of the bus driver's face. This filter mimics the work of artist Chuck Close.

Inside Out Bus



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Riding

Thursday, April 23, 2009 "...The riders on the bus go up and down.." This song is surprisingly accurate.

Tree Branch



Thursday, April 23, 2009
"Happy little tree limb" – Bob Ross
Here we bring the theme of the Bloomingtree to the inside of the bus as an interactive hand hold that can provide limited locational information using simple light displays.

Hot Seat



Hot Seat



Bus Window



Bus Window



Disembarking



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How do you know which stop to take if you don't know the landmarks?

Bus Window



The interactive bus window could display a community-contributed photograph of landmarks near the stop you want.

Bus Window



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Using GPS, the bus window could display labels of landmarks as they approach. This labeling would benefit even those familiar with the community as they would learn the names of landmarks they might know by site but not by name.

Strategies

Strategies

"Ok, let's go back to the big brush."

– Bob Ross

- Take advantage of Google Transit
- Make the bus stops obvious and fun
- Incorporate local art
- Introduce Bloomingtrees in stages

Conclusion

"Decide where your little footy hills live."

— Bob Ross

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Some of the concepts we have presented are more feasible in the near future than others.

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Google transit is operational NOW, and requires only the route data to be helpful (no CPS required). Bus stops can be obvious and fun without OLED technology. Use local artists to bring "Bloomington" to the bus system. The Bloomingtree could be implemented first as an art piece, with the interactive technology added as it becomes commercially available and affordable.

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The bus system can become a major contribution to the character of this little town, creating conversation and engaging the community. What will this "more Bloomington" Bloomington look like? That is up to you, Bloomington!

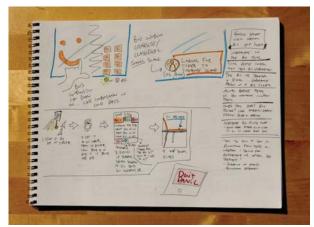
Thank You!

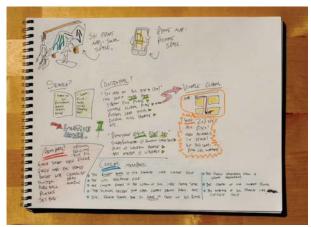
"Happy painting and God Bless, my friend."

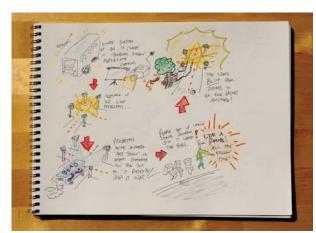
– Bob Ross



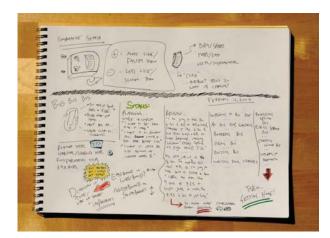
Thursday, April 22, 2009 81 Thursday, April 22, 2009 "Boy scout" Slides



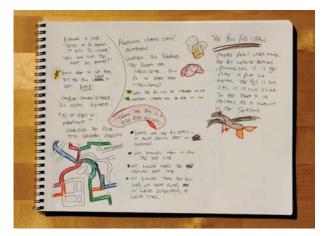




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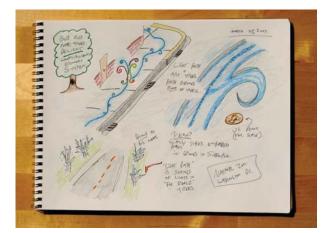


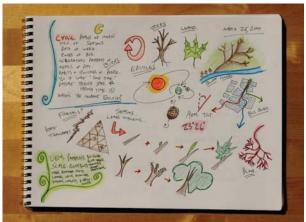




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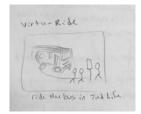


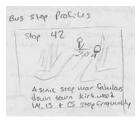




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