

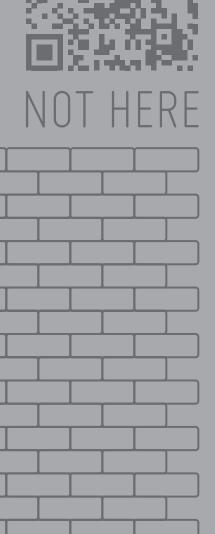




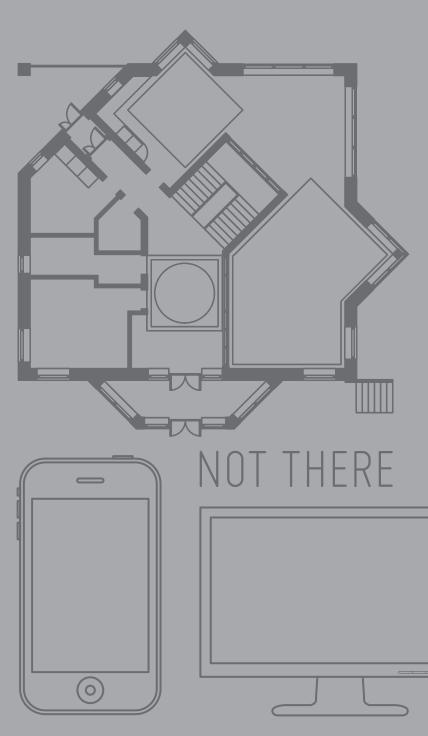


LEONARDO ELECTRONIC ALMANAC





VOL 19 NO 2 VOLUME EDITORS LANFRANCO ACETI AND RICHARD RINEHART EDITORS ÖZDEN ŞAHİN, JONATHAN MUNRO AND CATHERINE M. WEIR This LEA publication has a simple goal: surveying the current trends in augmented reality artistic interventions. There is no other substantive academic collection currently available, and it is with a certain pride that LEA presents this volume which provides a snapshot of current trends as well as a moment of reflection on the future of AR interventions.













Copyright 2013 ISAST Leonardo Electronic Almanac Volume 19 Issue 2 DATE OF PUBLICATION April 15, 2013 ISSN 1071-4391 ISBN 978-1-906897-23-9 The ISBN is provided by Goldsmiths, University of London.

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Leonardo Electronic Almanac is published by:

Leonardo/ISAST

211 Sutter Street, suite 501

San Francisco, CA 94108

Leonardo Electronic Almanac (LEA) is a project of Leonardo/ The International Society for the Arts, Sciences and Technology. For more information about Leonardo/ISAST's publications and programs, see http://www.leonardo.info or contact isast@leonardo.info.

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# Not Here Not There

**VOLUME EDITORS** 

LANFRANCO ACETI AND RICHARD RINEHART

**EDITORS** 

ÖZDEN ŞAHİN, JONATHAN MUNRO AND CATHERINE M. WEIR

The Leonardo Flectronic Almanac acknowledges the kind support for this issue of









# Not Here, Not There: An **Analysis Of An International Collaboration To Survey Augmented Reality Art**

Every published volume has a reason, a history, a conceptual underpinning as well as an aim that ultimately the editor or editors wish to achieve. There is also something else in the creation of a volume; that is the larger goal shared by the community of authors, artists and critics that take part in it.

This volume of LEA titled Not Here, Not There had a simple goal: surveying the current trends in augmented reality artistic interventions. There is no other substantive academic collection currently available, and it is with a certain pride that both, Richard Rinehart and myself, look at this endeavor. Collecting papers and images, answers to interviews as well as images and artists' statements and putting it all together is perhaps a small milestone; nevertheless I believe that this will be a seminal collection which will showcase the trends and dangers that augmented reality as an art form faces in the second decade of the XXIst century.

As editor, I did not want to shy away from more critical essays and opinion pieces, in order to create a documentation that reflects the status of the current thinking. That these different tendencies may or may not be proved right in the future is not the reason for the collection, instead what I believe is important and relevant is to create a historical snapshot by focusing on the artists and authors developing artistic practices and writing on augmented reality. For this reason, Richard and I posed to the contributors a series of questions that in the variegated responses of the artists and authors will evidence and stress similari-

ties and differences, contradictions and behavioral approaches. The interviews add a further layer of documentation which, linked to the artists' statements, provides an overall understanding of the hopes for this new artistic playground or new media extension. What I personally wanted to give relevance to in this volume is the artistic creative process. I also wanted to evidence the challenges faced by the artists in creating artworks and attempting to develop new thinking and innovative aesthetic approaches.

The whole volume started from a conversation that I had with Tamiko Thiel - that was recorded in Istanbul at Kasa Gallery and that lead to a curatorial collaboration with Richard. The first exhibition Not Here at the Samek Art Gallery, curated by Richard Reinhart, was juxtaposed to a response from Kasa Gallery with the exhibition Not There, in Istanbul. The conversations between Richard and myself produced this final volume - Not Here, Not There - which we both envisaged as a collection of authored papers, artists' statements, artworks, documentation and answers to some of the questions that we had as curators. This is the reason why we kept the same questions for all of the interviews - in order to create the basis for a comparative analysis of different aesthetics, approaches and processes of the artists that work in augmented

When creating the conceptual structures for this collection my main personal goal was to develop a link - or better to create the basis for a link - between earE DITORIAL

lier artistic interventions in the 1960s and the current artistic interventions of artists that use augmented reality.

My historical artist of reference was Yayoi Kusama and the piece that she realized for the Venice Biennial in 1966 titled Narcissus Garden. The artwork was a happening and intervention at the Venice Biennial; Kusama was obliged to stop selling her work by the biennial's organizers for 'selling art too cheaply.'

"In 1966 [...] she went uninvited to the Venice Biennale. There, dressed in a golden kimono, she filled the lawn outside the Italian pavilion with 1,500 mirrored balls, which she offered for sale for 1,200 lire apiece. The authorities ordered her to stop, deeming it unacceptable to 'sell art like hot dogs or ice cream cones.'" 1

The conceptualization and interpretation of this gesture by critics and art historians is that of a guerrilla action that challenged the commercialization of the art system and that involved the audience in a process that revealed the complicit nature and behaviors of the viewers as well as use controversy and publicity as an integral part of the artistic practice.

Kusama's artistic legacy can perhaps be resumed in these four aspects: a) engagement with audience's behaviors, b) issues of art economy and commercialization, c) rogue interventions in public spaces and d) publicity and notoriety.

These are four elements that characterize the work practices and artistic approaches – in a variety of combinations and levels of importance - of contem-

1. David Pilling, "The World According to Yayoi Kusama," The Financial Times, January 20, 2012, http://www.ft.com/ cms/s/2/52ab168a-4188-11e1-8c33-00144feab49a. html#axzz1kDck8rzm (accessed March 1, 2013).

porary artists that use augmented reality as a medium. Here, is not perhaps the place to focus on the role of 'publicity' in art history and artistic practices, but a few words have to be spent in order to explain that publicity for AR artworks is not solely a way for the artist to gain notoriety, but an integral part of the artwork, which in order to come into existence and generate interactions and engagements with the public has to be communicated to the largest possible audience.

"By then, Kusama was widely assumed to be a publicity hound, who used performance mainly as a way of gaining media exposure." 2 The publicity obsession, or the accusation of being a 'publicity hound' could be easily moved to the contemporary group of artists that use augmented reality. Their invasions of spaces, juxtapositions, infringements could be defined as nothing more than publicity stunts that have little to do with art. These accusations would not be just irrelevant but biased – since – as in the case of Sander Veenhof's analysis in this collection – the linkage between the existence of the artwork as an invisible presence and its physical manifestation and engagement with the audience can only happen through knowledge, through the audience's awareness of the existence of the art piece itself that in order to achieve its impact as an artwork necessitates to be publicized.

Even if, I do not necessarily agree with the idea of a 'necessary manifestation' and audience's knowledge of the artwork – I believe that an artistic practice that is unknown is equally valid – I can nevertheless understand the process, function and relations that have to be established in order to develop a form of engagement and interaction between the AR artwork and the audience. To condemn the artists who seek publicity

in order to gather audiences to make the artworks come alive is perhaps a shortsighted approach that does not take into consideration the audience's necessity of knowing that interaction is possible in order for that interaction to take place.

What perhaps should be analyzed in different terms is the evolution of art in the second part of the XXth century, as an activity that is no longer and can no longer be rescinded from publicity, since audience engagement requires audience attendance and attendance can be obtained only through communication / publicity. The existence of the artwork – in particular of the successful AR artwork – is strictly measured in numbers: numbers of visitors, numbers of interviews, numbers of news items, numbers of talks, numbers of interactions, numbers of clicks, and, perhaps in a not too distant future, numbers of coins gained. The issue of being a 'publicity hound' is not a problem that applies to artists alone, from Andy Warhol to Damien Hirst from Banksy to Maurizio Cattelan, it is also a method of evaluation that affects art institutions and museums alike. The accusation moved to AR artists of being media whores – is perhaps contradictory when arriving from institutional art forms, as well as galleries and museums that have celebrated publicity as an element of the performative character of both artists and artworks and an essential element instrumental to the institutions' very survival.

The publicity stunts of the augmented reality interventions today are nothing more than an acquired methodology borrowed from the second part of the XXth century. This is a stable methodology that has already been widely implemented by public and private art institutions in order to promote themselves and their artists.

Publicity and community building have become an artistic methodology that AR artists are playing with by

making use of their better knowledge of the AR media. Nevertheless, this is knowledge born out of necessity and scarcity of means, and at times appears to be more effective than the institutional messages arriving from well-established art organizations. I should also add that publicity is functional in AR interventions to the construction of a community – a community of aficionados, similar to the community of 'nudists' that follows Spencer Tunic for his art events / human installation.

I think what is important to remember in the analysis of the effectiveness both in aesthetic and participatory terms of augmented reality artworks – is not their publicity element, not even their sheer numbers (which, by the way, are what has made these artworks successful) but their quality of disruption.

The ability to use – in Marshall McLuhan's terms – the medium as a message in order to impose content bypassing institutional control is the most exciting element of these artworks. It is certainly a victory that a group of artists - by using alternative methodological approaches to what are the structures of the capitalistic system, is able to enter into that very capitalistic system in order to become institutionalized and perhaps – in the near future – be able to make money in order to make art.

Much could be said about the artist's need of fitting within a capitalist system or the artist's moral obligation to reject the basic necessities to ensure an operational professional existence within contemporary capitalistic structures. This becomes, in my opinion, a question of personal ethics, artistic choices and existential social dramas. Let's not forget that the vast majority of artists – and AR artists in particular – do not have large sums and do not impinge upon national budgets as much as banks, financial institutions, militaries and corrupt politicians. They work for years

<sup>2.</sup> Isabelle Loring Wallace and Jennie Hirsh, Contemporary Art & Classical Myth (Farnham; Burlington, VT: Ashgate, 2011), 94.

with small salaries, holding multiple jobs and making personal sacrifices; and the vast majority of them does not end up with golden parachutes or golden handshakes upon retirement nor causes billions of damage to society.

The current success of augmented reality interventions is due in small part to the nature of the medium. Museums and galleries are always on the lookout for 'cheap' and efficient systems that deliver art engagement, numbers to satisfy the donors and the national institutions that support them, artworks that deliver visibility for the gallery and the museum, all of it without requiring large production budgets. Forgetting that art is also about business, that curating is also about managing money, it means to gloss over an important element – if not the major element – that an artist has to face in order to deliver a vision.

Augmented reality artworks bypass these financial challenges, like daguerreotypes did by delivering a cheaper form of portraiture than oil painting in the first part of the XIXth century, or like video did in the 1970s and like digital screens and projectors have done in the 1990s until now, offering cheaper systems to display moving as well as static images. AR in this sense has a further advantage from the point of view of the gallery – the gallery has no longer a need to purchase hardware because audiences bring their own hardware: their mobile phones.

The materiality of the medium, its technological revolutionary value, in the case of early augmented reality artworks plays a pivotal role in order to understand its success. It is ubiquitous, can be replicated everywhere in the world, can be installed with minimal hassle and can exist, independently from the audience, institutions and governmental permissions. Capital costs for AR installations are minimal, in the order of a few

hundred dollars, and they lend themselves to collaborations based on global networks.

Problems though remain for the continued success of augmented reality interventions. Future challenges are in the materialization of the artworks for sale, to name an important one. Unfortunately, unless the relationship between collectors and the 'object' collected changes in favor of immaterial objects, the problem to overcome for artists that use augmented reality intervention is how and in what modalities to link the AR installations with the process of production of an object to be sold.

Personally I believe that there are enough precedents that AR artists could refer to, from Christo to Marina Abramovich, in order develop methods and frameworks to present AR artworks as collectable and sellable material objects. The artists' ability to do so, to move beyond the fractures and barriers of institutional vs. revolutionary, retaining the edge of their aesthetics and artworks, is what will determine their future success.

These are the reasons why I believe that this collection of essays will prove to be a piece, perhaps a small piece, of future art history, and why in the end it was worth the effort.

# Lanfranco Aceti

Editor in Chief, Leonard Director, Kasa Gallery

# Site, Non-site, and Website

In the 1960's, artist Robert Smithson articulated the strategy of representation summarized by "site vs. **non-site**" whereby certain artworks were simultaneously abstract and representational and could be sitespecific without being sited. A pile of rocks in a gallery is an "abstract" way to represent their site of origin. In the 1990's net.art re-de-materialized the art object and found new ways to suspend the artwork online between website and non-site. In the 21st century, new technologies suggest a reconsideration of the relationship between the virtual and the real. "Hardlinks" such as QR codes attempt to bind a virtual link to our physical environment.

Throughout the 1970's, institutional critique brought political awareness and social intervention to the site of the museum. In the 1980's and 90's, street artist such as Banksy went in the opposite direction, critiquing the museum by siting their art beyond its walls.

Sited art and intervention art meet in the art of the trespass. What is our current relationship to the sites we live in? What representational strategies are contemporary artists using to engage sites? How are sites politically activated? And how are new media framing our consideration of these questions? The contemporary art collective ManifestAR offers one answer,

"Whereas the public square was once the quintessential place to air grievances, display solidarity, express difference, celebrate similarity, remember, mourn, and reinforce shared values of right and wrong, it is no longer the only anchor for interactions in the public realm. That geography has been relocated to a novel terrain, one that encourages exploration of mobile location based monuments,

and virtual memorials. Moreover, public space is now truly open, as artworks can be placed anywhere in the world, without prior permission from government or private authorities – with profound implications for art in the public sphere and the discourse that surrounds it."

ManifestAR develops projects using Augmented Reality (AR), a new technology that – like photography before it – allows artists to consider questions like those above in new ways. Unlike Virtual Reality, Augmented Reality is the art of overlaying virtual content on top of physical reality. Using AR apps on smart phones, iPads, and other devices, viewers look at the real world around them through their phone's camera lens, while the app inserts additional images or 3D objects into the scene. For instance, in the work Signs over Semiconductors by Will Pappenheimer, a blue sky above a Silicon Valley company that is "in reality" empty contains messages from viewers in skywriting smoke when viewed through an AR-enabled Smartphone.

AR is being used to activate sites ranging from Occupy Wall Street to the art exhibition ManifestAR @ ZERO1 Biennial 2012 – presented by the Samek Art Gallery simultaneously at Bucknell University in Lewisburg, PA and at Silicon Valley in San Jose, ca. From these contemporary non-sites, and through the papers included in this special issue of LEA, artists ask you to reconsider the implications of the simple question wayn (where are you now?)

# Richard Rinehart

Director, Samek Art Gallery, Bucknell University

# **Leonardo Electronic Almanac**

# Volume 19 Issue 2

**EDITORIAL** Lanfranco Aceti

**INTRODUCTION** Richard Rinehart



**SPATIAL ART: AN ERUPTION OF THE DIGITAL INTO THE PHYSICAL** 

+ Interview Simona Lodi

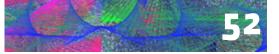






**LEAF++: TRANSFORMATIVE LANDSCAPES** 

+ Interview, Statement, Artwork Salvatore Iaconesi, Luca Simeone, Oriana Persico, Cary Hendrickson



# **AUGMENTED IRREALITY**

+ Interview, Statement, Artwork Chiara Passa

**NOT NOW, PERHAPS LATER: TIME CAPSULES AS COMMUNICATIONS WITH THE FUTURE** 

> + Statement Jo Ann Oravec

**MECHANICS OF PLACE: TEXTURES OF TOPHANE** 

+ Interview, Statement, Artwork Hana Iverson & Sarah Drury



"IMAGE AS PLACE": THE PHENOMENAL **SCREEN IN KIT GALLOWAY & SHERRIE RABINOWITZ'S SATELLITE ARTS 1977** 

Kris Paulsen



**LOCATION-BASED VIRTUAL INTERVENTIONS: TRANSCENDING SPACE** THROUGH MOBILE AUGMENTED REALITY **AS A FIELD FOR ARTISTIC CREATION** 

+ Interview, Statement, Artwork Alejandro Schianchi

**INVISIBLE - IN YOUR FACE** 

+ Interview, Statement, Artwork Sander Veenhof



**DISCOVERING THE NON-SELF: THE CONSTRUCTION OF LANGUAGE, TRANCE, AND SPACE** 

+ Interview, Statement, Artwork Judson Wright



Interview, Statement, Artwork

Maria Anwander

Interview, Statement, Artwork Ruben Aubrecht



Interview, Statement, Artwork A. J. Patrick Liszkiewicz

Interview, Statement, Artwork Mark Skwarek



Interview, Statement, Artwork Tamiko Thiel

Interview Patrick Lichty

# MARK SKWAREK

interviewed by Lanfranco Aceti & Richard Rinehart

Is there an 'outside' of the Art World from which to launch critiques and interventions? If so, what is the border that defines outside from inside? If it is not possible to define a border, then what constitutes an intervention and is it possible to be and act as an outsider of the art world? Or are there only different positions within the Art World and a series of positions to take that fulfill ideological parameters and promotional marketing and branding techniques to access the fine art world from an oppositional, and at times confrontational, standpoint?

I see the art world existing as the gallery system. I feel personally that I often operate outside of this closeknit group. Often times I'll make work without a show and give it back to the social network. The work lives there often times and on the web. Because my social network is so tied to the art world it feels as though the work exists, in a way, in the art world's conscious-

I like to see my work in the global community as well as the art world.

I'm not sure the idea of an art without Borders will exist forever. I think there will be Borders, and there currently are ones, such as the Korean DMZ, which block GPS signals and mobile Internet. An invisible border exists. I have seen this at government and military sites, and other locations as well. The technology is new, and they are working on ways to create laws to restrict its use. Image recognition would seem like a solution but advanced pattern recognition software could be incorporated into copyrights; at which point the rules of the game change. I personally would not want to turn my back on the art world; I'm regularly inspired by the community. I do feel it's important that my work does exist on some level in the art world.

"In The Truth in Painting, Derrida describes the parergon (par-, around; ergon, the work), the boundaries or limits of a work of art. Philosophers from Plato to Hegel, Kant, Husserl, and Heidegger debated the limits of the intrinsic and extrinsic, the inside and outside of the art object." (Anne Friedberg, The Virtual Window: From Alberti to Microsoft (Cambridge, MA: MIT Press, 2009), 13.) Where then is the inside and outside of the virtual artwork? Is the artist's 'hand' still inside the artistic process in the production of virtual art or has it become an irrelevant concept abandoned outside the creative process of virtual artworks?

In my personal practice, which is basically entirely devoted to augmented reality, I treat the creation process almost the same as I would if I were making physical art objects. The thought process is very similar although the speed at which the AR works can be produced allows for quick production. A lot of the work I do involves the evolution of the idea.

As for the physical craft of the work, although created on computer, the work is quite labor-intensive and involves countless hours of the human hand manipulating image and form. In the future, I would say the tools will become closer to traditional sculpture tools and the parallel will seem much more obvious. In the construction of some of the more advanced 3-D objects, the tools get much closer to real ones.

Virtual interventions appear to be the contemporary inheritance of Fluxus' artistic practices. Artists like Peter Weibel, Yayoi Kusama and Valie Export subverted traditional concepts of space and media through artistic interventions. What are the sources of inspiration and who are the artistic predecessors that you draw from for the conceptual and aesthetic frameworks of contemporary augmented reality interventions?

One of the first experiences I had with art was through graffiti. I was lucky enough to see New York before the quality of life campaign. I remember driving into New York with my father and noticing the artwork on the side of the road and as we came into the city it was layered thick, everywhere; on the rooftops as far as the eye could see. The people creating these images took great care in their craft. One in particular was "Vert." I went home and quickly drew my first letters. The act of public intervention and briefly "claiming" a space was incredibly addictive. The public space becomes a canvas that you want to fill; the more dangerous the spot the better. Augmented reality would be a much watered down experience in terms of risk. At the same time the ability to place artworks in most physical spaces without breaking the law and, hopefully, no physical injury appeals to many artists. I very much enjoy making the works interact with the physical public space.

In the representation and presentation of your artworks as being 'outside of' and 'extrinsic to' contemporary aesthetics why is it important that your projects are identified as Art?

I think, often times, the idea is most important in the work; the medium is a secondary concern. Sometimes contrasting an idea with a medium like augmented reality creates a very interesting interplay; an artist should see it as another tool. Of course with practice one gets better with the tool. I think the ability to be

able to create anything almost anywhere opens so many possibilities to artists.

It would be nice. But I think it would be a lot of work to continuously update the models and software. I see the advances in his technology coming more quickly making the old hardware and software irrelevant. Within a year's time, I have seen a large group of models no longer function because of the recent update. Meaning the current lifespan if left unattended would be quite short for augmented reality art. I think the best way for my work to live beyond me would be as part of some foundation devoted to preserving this medium. Of course, not all works might be included but even if some of the important ones were that would be great. Ideally selling work to collectors would be ideal. A new type of digital art restorer would be needed to update the art at some standard to a functioning, current platform. Also, video documentation could show how the work was originally conceived. Viewing for future generations could give the work different context, so many variables would be involved. That would be easier to preserve. Maybe some program could be developed which continuously updates and reloads the models as the software updates. Most of my original work will look incredibly low resolution compared to what future generations will be used to seeing. We'll see if the work holds enough value to live on.

What has most surprised you about your recent artworks? What has occurred in your work that was outside of your intent, yet has since become an intrinsic part of the work?

This might not be the answer you want --

I enjoy the experience of the physical space, and react to it. --

When I made mainly virtual art I rarely left the computer. Working in AR changed this completely.

I create a framework before the completed work; often times before I actually visit the physical location [due to distance]. When I do finally arrive at the physical site, one of my favorite parts is the reaction to the space. Almost every time the work changes. I go in with an idea and often times it's not possible, or something else presents itself. You can only get so much from a satellite view and a Google Street view. One of my favorite parts in the creation process is the unknown; not knowing what will happen.

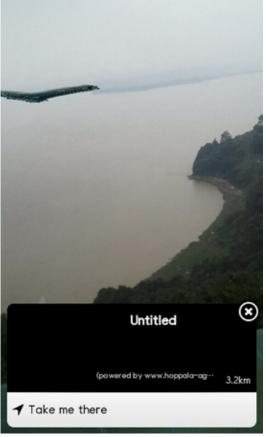
# MARK SKWAREK

statement & artwork

Mark Skwarek is new media artist working to bridge the gap between virtual reality and the physical world by using augmented reality.

He explores this intersection in his art practice as well as activist art related art projects. Mark's new work often draw's on the global community to help create the work. The communities' contribution to the work often takes place in the form of a realtime feed keeping the artwork in constant change. Mark's activist related work and seeks to raise awareness by often integrating the activist message into the viewer's everyday surroundings. This integration often takes place in the form of intervention. Much of Mark's work probes the boundaries of the physical and virtual world through interventions. The interventions often create relationships which make the viewer rethink their understanding of physical and global space. Mark has also been working to develop new tools for activists using augmented reality.

ARTWORK



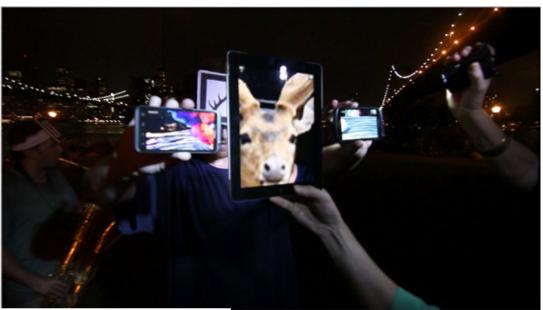
Korean Unification Project, 2011, Mark Skwarek, Augmented Reality.

This is the 1st augmented reality project in North Korea. The image shows a screen cap of an augment covering a small North Korean military structure. © Mark Skwarek, 2011.



Korean Unification Project, 2011, Mark Skwarek, Augmented Reality.

This project creates a vision of a unified Korea by erasing military structures. © Mark Skwarek, 2011.



Island of Fate, 2011, Mark Skwarek, Augmented Reality.

Live AR perforce at the Dumb Arts Festival where Mark Skwarek granted viewers' wishes on an AR island. © Mark Skwarek, 2011.



Jackpot!, 2011 Mark Skwarek, Augmented Reality.

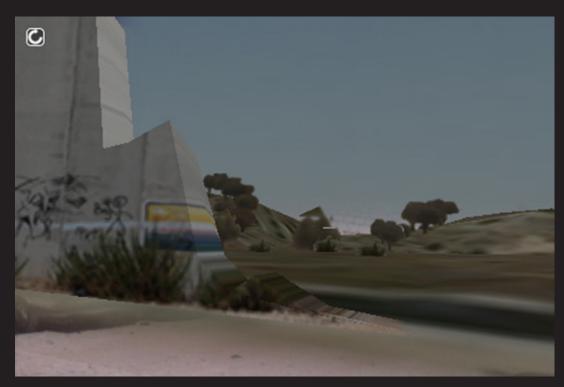
The arOCCUPY Wall Street's Jackpot turned the NYSE into a slot machine. © Mark Skwarek, 2011.

A\_R T W O R K A R T W O R K



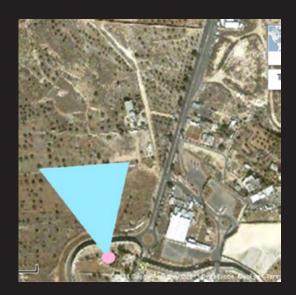
arOCCUPY Wall Street, 2011, Mark Skwarek, Augmented Reality.

Screen capture of the AR OCCUPY Wall Street main layar movement organized by Mark Skwarek. © Mark Skwarek, 2011.



Erase the Separation Barrier, 2011, Mark Skwarek, Augmented Reality.

Screen capture of an AR hole through the Israeli / Palestinian Border Separation Barrier on site. © Mark Skwarek, 2011.



Erase the Separation Barrier, 2011,

Mark Skwarek, Augmented Reality. Satellite image of the Israeli /

alestinian Border Separation

Barrier. © Mark Skwarek, 2011.



arOCCUPY Wall Street, 2011, Mark Skwarek, Augmented Reality,

Flash Mob at Wall Street viewing the arOCCUPY Wall Street organized by Mark Skwarek. © Mark Skwarek, 2011.

R T W O R K
A R T W O R



14th St iPhone Store AR Intervention, 2012, Mark Skwarek, Augmented Reality.

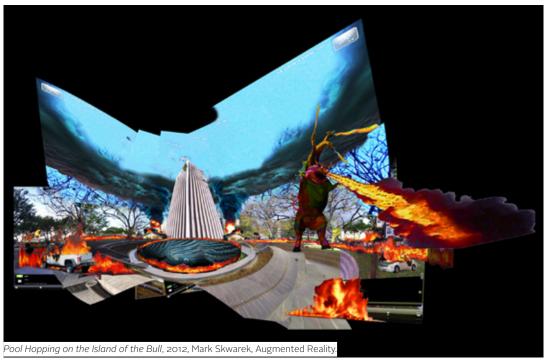
Augmented Reality Screen capture of the 14th St Apple store balcony view of the Foxconn suicide jumper.

© Mark Skwarek, 2012.



Pool Hopping on the Island of the Bull, 2012, Mark Skwarek, Augmented Reality.

Live performance at LA Bank of America Plaza. Skwarek partied in an augmented reality pool at the bank until he was kicked out. © Mark Skwarek, 2012.



Screen capture of AR performance at LA Bank of America Plaza. Skwarek partied in an augmented reality pool at the bank until he was kicked out. © Mark Skwarek, 2012.

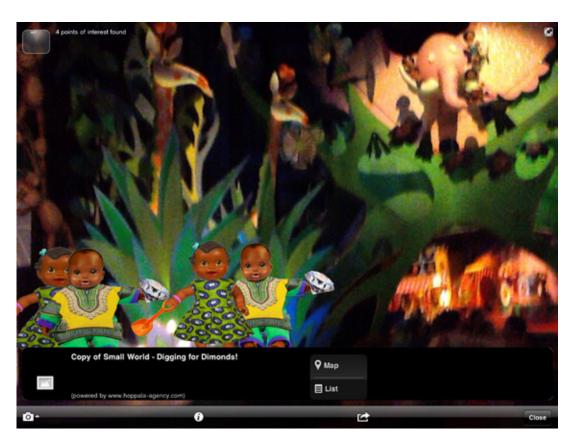


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Disney AR Intervention, 2012, Mark Skwarek, Augmented Reality.

[Screen capture.] This intervention added under -represented groups of children to Disney's Small World ride. © Mark Skwarek, 2012.



Disney AR Intervention, 2012, Mark Skwarek, Augmented Reality Augmented Reality.

[Screen capture.] This intervention added under -represented groups of children to Disney's Small World ride.

© Mark Skwarek, 2012.



Whitney Biennial Augmented Reality Intervention, 2012, Mark Skwarek, Augmented Reality.

[Screen capture.] This intervention flooded the 2012 Whitney Biennial and surrounding area. © Mark Skwarek, 2012.

# Deadly Cuts To The Arts

A New International Initiative of the Museum of Contemporary Cuts in collaboration with Operational and Curatorial Research

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Operational & Curatorial Research in Contemporary Art, Design, Science & Technology