CULTURE PHOTOGRAPHY & VIDEO REPORT

# 'Clouds': an interactive documentary shot on Kinect proves the future of video is not at CES

By Joshua Kopstein (http://www.theverge.com/users/Joshua%20Kopstein) on January 9, 2013 07:00 am

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The camera of the future is not at CES (http://www.theverge.com/ces-2013) — it's at Eyebeam, an art and technology incubator in the Chelsea neighborhood of New York City, where two artists-in-residence are currently shooting a documentary that's probably better described as interactive software than a feature film.

Ever since their first meeting at a coding conference in Pittsburgh, James George (http://jamesgeorge.org/) and Jonathan Minard (http://www.deepspeedmedia.com/) have been perfecting their experimental filmmaking technique, which uses a DSLR + Kinect hybrid image capture process in conjunction with custom editing software. The results are two-fold: a distinct set of stuttered images that can be spatially manipulated by the viewer, and a free dev kit (http://www.rgbdtoolkit.com/) that allows anyone with the right equipment to play along — like Hollywood 3D's dirtier, open-source cousin made into a video game.

Clouds (http://www.kickstarter.com/projects/1636630114/clouds-interactive-documentary) , an upcoming documentary that was just funded on Kickstarter, is being shot entirely using this method, which George and Minard call RGB+D

(http://www.theverge.com/2012/5/2/2993117/3d-filmmaking-open-source-RGBD) . Set within the framework resembling a modern "choose your own adventure" game, the duo says the finished film (if you could call it that) will be almost game-like — an interactive narrative offering a reflective look at the culture of creative coding and software art, as told by a sizable cast of artists, journalists, and curators.

George and Minard explain that the concept came from a keynote address from sci-fi author Bruce Sterling — one of the subjects of the documentary — in which he tried to predict what the cameras of the future would be like, describing a device "that absorbed



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photons from all angles at all times, turning the act of taking a picture into a computational problem of choosing which angle at which moment to visualize."

With its noted hacker-friendliness and the ability to capture 3-dimensional images in 30 frames-per-second, the Kinect seemed an obvious choice to try and make that fiction a reality. George and Minard began beta testing their methods, using the process to document a Reddit AMA

(http://vimeo.com/35858119) and an art hackathon at nearby gallery space 319 Scholes (http://arthackday.net/project/7/).

But eventually the stylized footage led to bigger ideas.

"WE WANT 'CLOUDS' TO FEEL LIKE A CONTINUOUS REVELATION IN A SPACE OF IDEAS."

"The fact that we were already visualizing this data in a virtual environment resembling a video game, with unlimited possible camera positions and visual styles, had opened up our thinking," write George and Minard in an email interview. "It dawned on us that the conversation we were recording had begun to resemble an interconnected network."

The two artists have begun parsing the various nodes of that network into conversation "seeds," allowing the viewer to ask questions and follow various digressions as the conversation progresses. The end result will be an executable program generating a virtual space in which viewing angles can be changed and individual ideas pursued. Suddenly, the videography ceases to be a lightly-interactive depiction of events and starts to become more like a computer simulation, navigated in real time.

"The goal of building such a system is to leave the possibility space wide open, to create an experience that feels spontaneous and full of surprises ... We want *Clouds* to feel like a continuous revelation in a space of ideas."

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#### strife06 (http://www.theverge.com/users/strife06)

There can only be one Kevin Flynn, and you sir are not him.

Posted on Jan 13, 2013 I 12:16 PM (#137853031)



#### Markzzbr (http://www.theverge.com/users/Markzzbr)

The future of video will last only this documentary

Wow! That's really future.

No, it's not.

Posted on Jan 9, 2013 | 7:56 AM (#136977995)

#### widdershins40 (http://www.theverge.com/users/widdershins40)

So you don't think it's possible that some time in the future, realtime composite 3d video could be useful? Imagine skype, but you can see the person from any angle.

Posted on Jan 9, 2013 I 12:40 PM (#137017877)



#### HumanEvan (http://www.theverge.com/users/HumanEvan)

What would be the point of that unless you're shooting a porno via Skype.

That would be about as useless as 3D TV.

Posted on Jan 9, 2013 I 2:04 PM (#137039309)



#### wildpeaks (http://www.theverge.com/users/wildpeaks)

Ironically, I recorded a proof of concept movie using a similar method in early 2012 using the Kinect as well: https://vimeo.com/38635607 (https://vimeo.com/38635607)

(the multi-users part of the video is simulated though, they never implemented it).

Posted on Jan 9. 2013 | 8:00 AM (#136978187)



#### victorstuber (http://www.theverge.com/users/victorstuber)

I could definitely see this sort of technology being used in a movie. Imagine being able to interactively touch your ipad and pan around or zoom into the actor during the movie.

Posted on Jan 9, 2013 I 9:36 AM (#136984987)



#### Omen 20 (http://www.theverge.com/users/Omen 20)

That high pitch in the second video made me turn it off. Lord was that murder to my ears.

Posted on Jan 9, 2013 I 10:09 AM (#136989277)



#### Forbius (http://www.theverge.com/users/Forbius)

old

Posted on Jan 9, 2013 I 11:52 AM (#137007865)

#### widdershins40 (http://www.theverge.com/users/widdershins40)

God damn it I love Bruce Sterling. A disillusioned prophet.

Posted on Jan 9, 2013 I 12:29 PM (#137015327)

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#### notoriousyid (http://www.theverge.com/users/notoriousyid)

I do really think that this technology is the future of filmmaking, and is probably the seed of movies' and videogames' eventual convergence. Very exciting.

Posted on Jan 9, 2013 I 1:05 PM (#137024433)



Squarecat (http://www.theverge.com/users/Squarecat)

Sid the Science Kid: Home Edition (https://fxguide.com/featured/Sid\_the\_Science\_Kid/) ?

Posted on Jan 9, 2013 I 1:52 PM (#137035961)

#### jkl437 (http://www.theverge.com/users/jkl437)

How about thinking of the future in video via mobile apps?

In my opinion, ClipClock s the best video app in its category as it essentially acts as a social video hub where you can see all the videos your friends have posted and other viral videos.

Not only that, you can upload and share the best video moments, rather than entire videos via iPhone. Here's the download link: <a href="https://www.clipclock.com/download/5049">www.clipclock.com/download/5049</a> (http://www.clipclock.com/download/5049)

Posted on Jan 11, 2013 I 5:42 PM (#137517963)

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