# Introducing Scalar: Designs for Innovation

Reimagining the Archive / UCLA / November 13, 2010

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Scalar



### Scalar multiplication

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(December 2009)

In mathematics, scalar multiplication is one of the basic operations defining a space in linear algebra (or more generally, a module in abstract algebra). In an ingeometrical context, scalar multiplication of a real Euclidean vector by a positive number multiplies the magnitude of the vector without changing its direction. The "scalar" itself derives from this usage: a scalar is that which scales vectors. Scalar multiplication is different from the scalar product, which is an inner product betwee vectors.

#### Definition

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In general, if K is a field and V is a vector space over K, then scalar multiplication function from  $K \times V$  to V. The result of applying this function to c in K and v in V denoted cv.

Scalar multiplication obeys the following rules (vector in boldface):

- Left distributivity: (c + d)v = cv + dv;
- Right distributivity: c(v + w) = cv + cw;
- Associativity: (cd)v = c(dv);
- Multiplying by 1 does not change a vector: 1v = v;
- Multiplying by 0 gives the null vector: 0v = 0;
- Multiplying by -1 gives the additive inverse: (-1)v = -v.

Here + is addition either in the field or in the vector space, as appropriate; and 0 additive identity in either. Juxtaposition indicates either scalar multiplication or the multiplication operation in the field.

Scalar multiplication may be viewed as an external binary operation or as an activate field on the vector space. A geometric interpretation to scalar multiplication stretching or shrinking of a vector.

As a special case, V may be taken to be K itself and scalar multiplication may to taken to be simply the multiplication in the field. When V is  $K^n$ , then scalar multiplication is defined component-wise.

The same idea goes through with no change if K is a commutative ring and V is

# Anatomy of a Scalar Book





Media

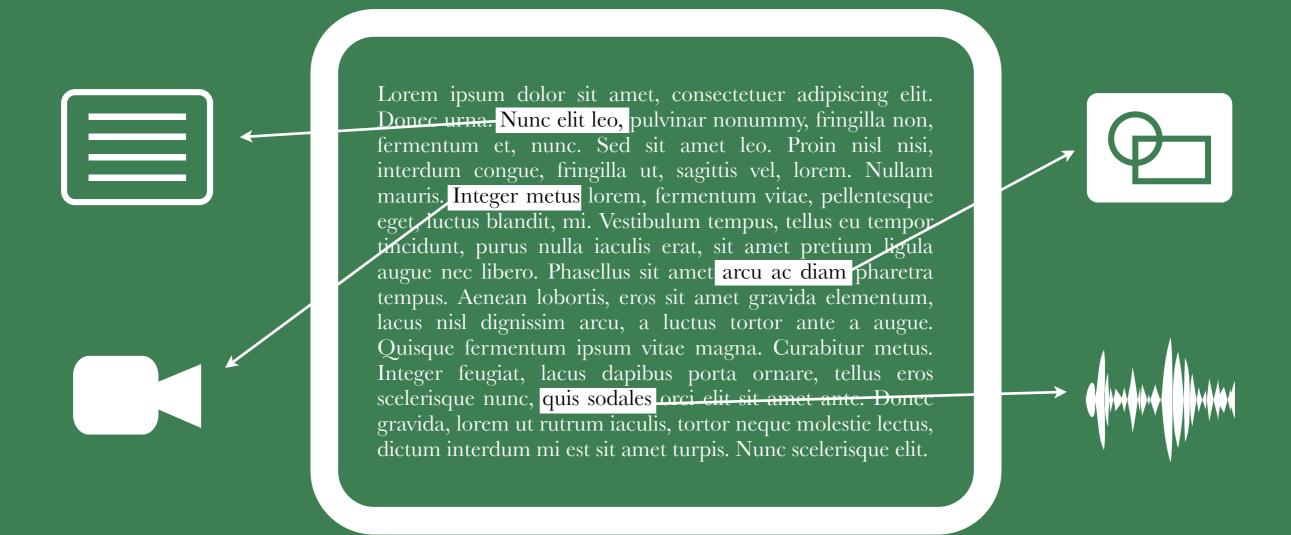


Paths



Tags

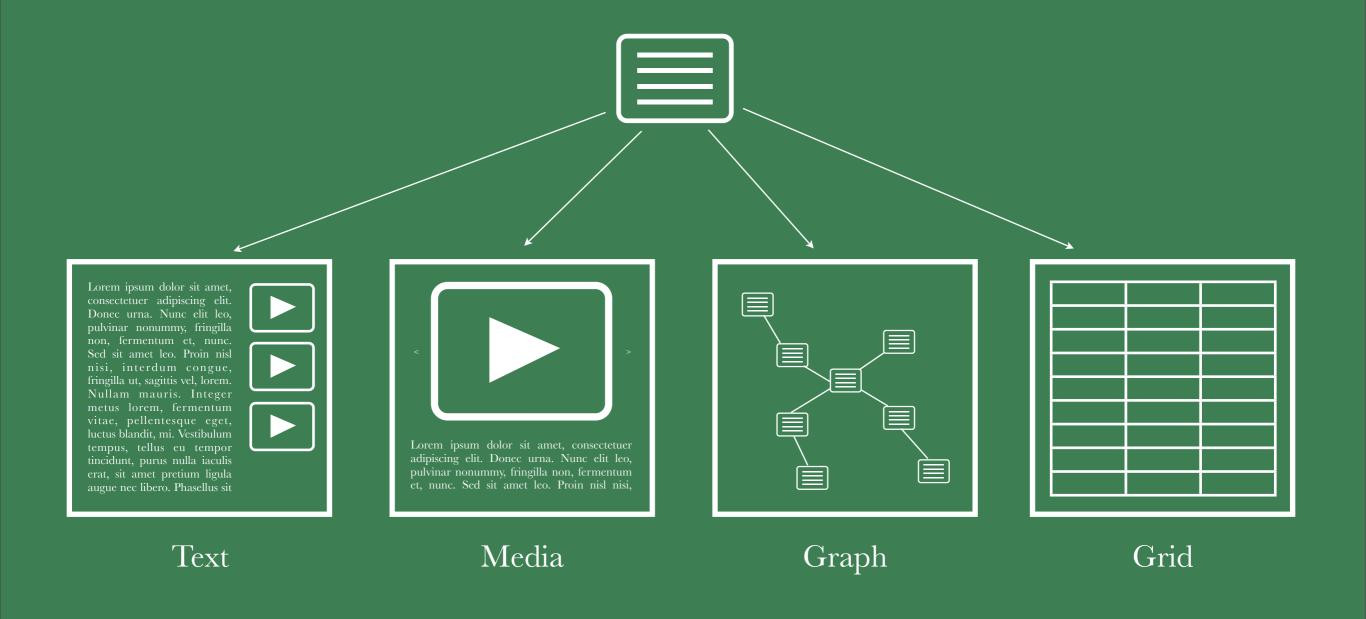
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### View

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## Views



and more...



### **Bodies in the Americas** Marcela Fuentes, Author

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Begin path D







Live

#### Hemispheric Digital Constellations

Contains 5 resources

Picture this: Activists from all over the world, who have never met in person, gather at the website of the Mexican government for a virtual sit-in organized by the Electronic Disturbance Theater to support the indigenous Zapatista rebellion.

Hemispheric Digital Constellations: Tracing Performing

Or this: A group of outraged New Yorkers denounces pervasive surveillance by performing mute versions of classics such as Waiting for Godot and 1984 in front of surveillance cameras in subway stations.

Or, in San Diego, a program developer cracks a Motorola phone turning it into a basic GPS that is part of a media arts piece engaging border politics.

Or, the case of Cuban-American performance artist Coco Fusco, who reenacts a real-life episode of labor abuse involving a maguiladora (assembly line factory) worker for online viewers.

This digital book explores practices of performance in which, artists and activists in the Americas use symbolic action as a means to intervene in conflict scenarios informed by failing states and virtual economies. The performances that are surveyed here rely on different platforms-the Internet, mass media, the street, and theatre-to bring awareness to the effects of neoliberalism and neoconservatism in the region.

The peculiarity of these performances resides in a creative and disruptive use of media and space to produce what I call "embodied action as event," a specific disruption of the laws that script bodily behavior in a given space, where the body is supposedly excluded (as in the case of electronic media) or where it is contained by laws of civility (as in public space.) Performance is thus conceived as the manifestation of a certain expressivity through which participants act upon the



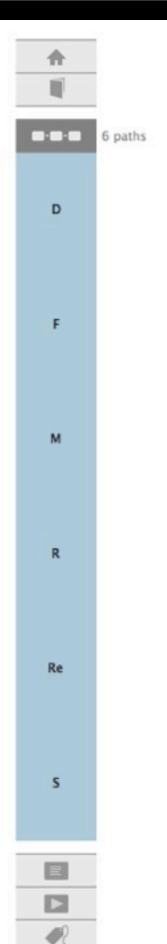
#### Surveillance Camera Players, Nineteen



Maximize







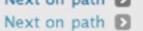
### We Are All Children of Algeria

Nicholas Mirzoeff, Author Live

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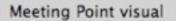
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Main Route, page 2 of 10 in path Demonstrating the demonstration, page 1 of 3 in path Next on path D





#### **Meeting Point**





Maximize

video



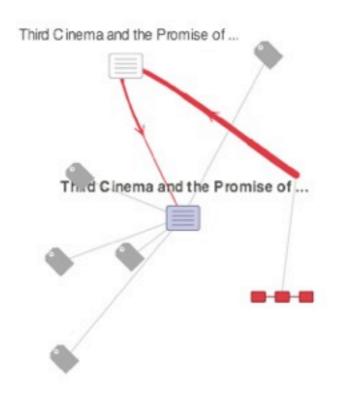
### This is the Meeting Point

This is a demonstration of the theme: "We Are All Children of Algeria," a project created for the NEH-Vectors Summer Institute "Broadening the Digital Humanities" at UCHRI in 2010. I explain the goals of the project in the video.

The project can be followed along the main route of the demonstration, or you can explore the feeder marches, and either get lost or end up back with the main crowd.

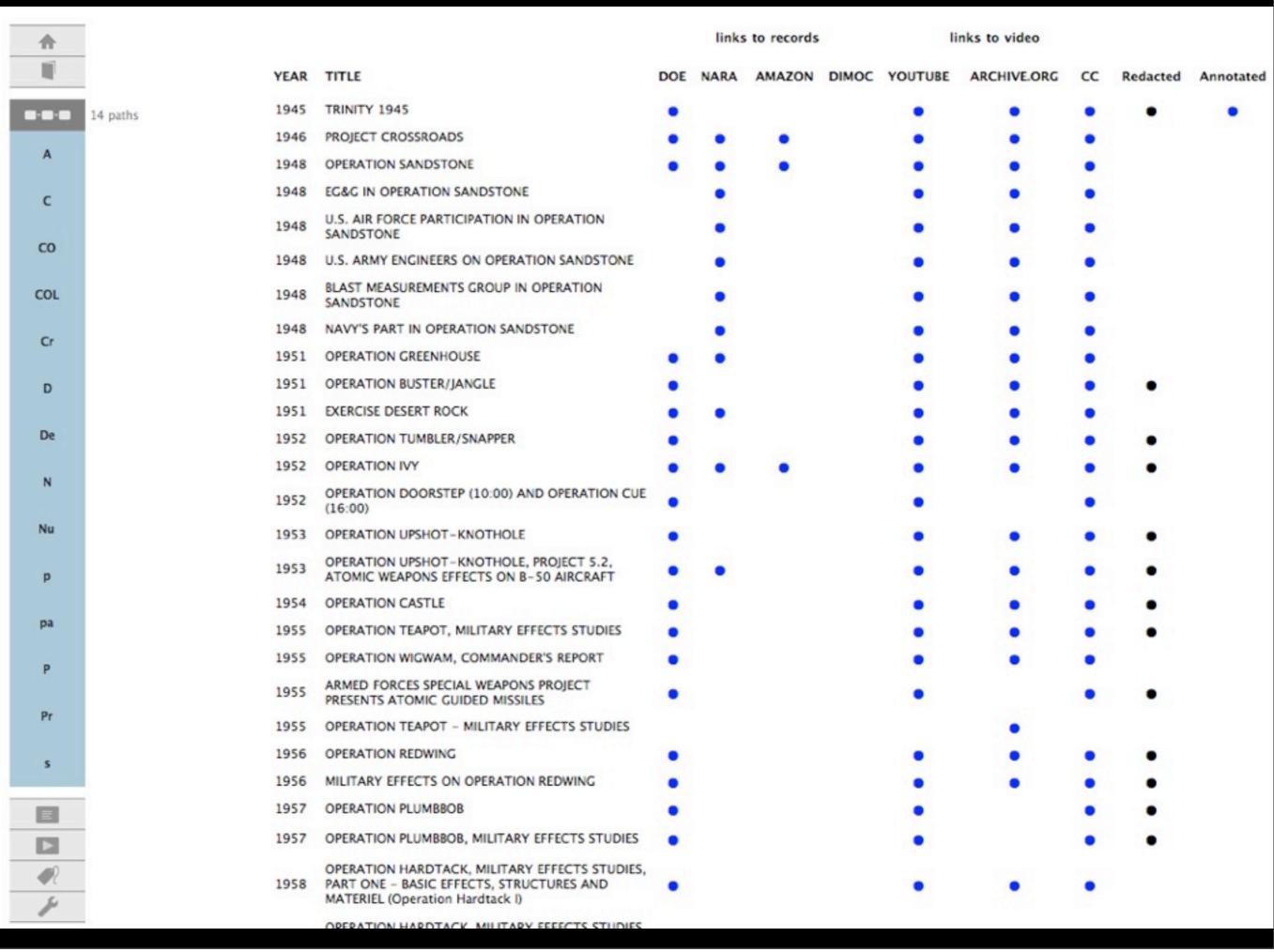




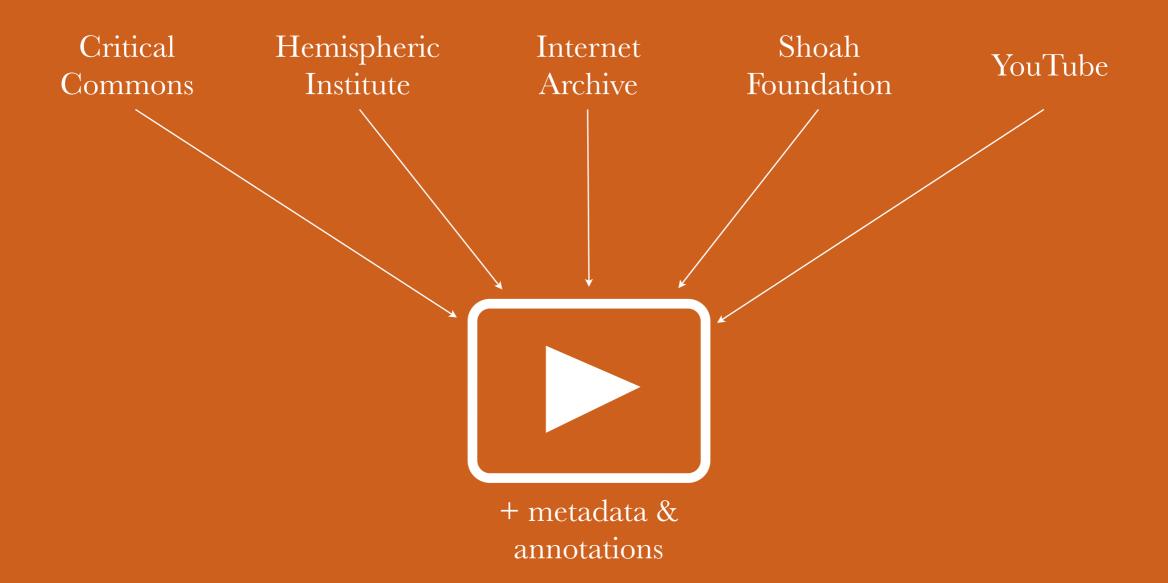


This project consists of 5 main paths. Some of those paths contain paths.

Looking at the current page in "graph view," the default view for this page, gives you a graphic representation of the pages, paths, and tags included in this page. Clicking on any of these elements of the project reveals their connections to the paths, pages, tags, media files, notes, and commentary included in the entire project. Though not the default view for most pages, graph view can be displayed by



# Media



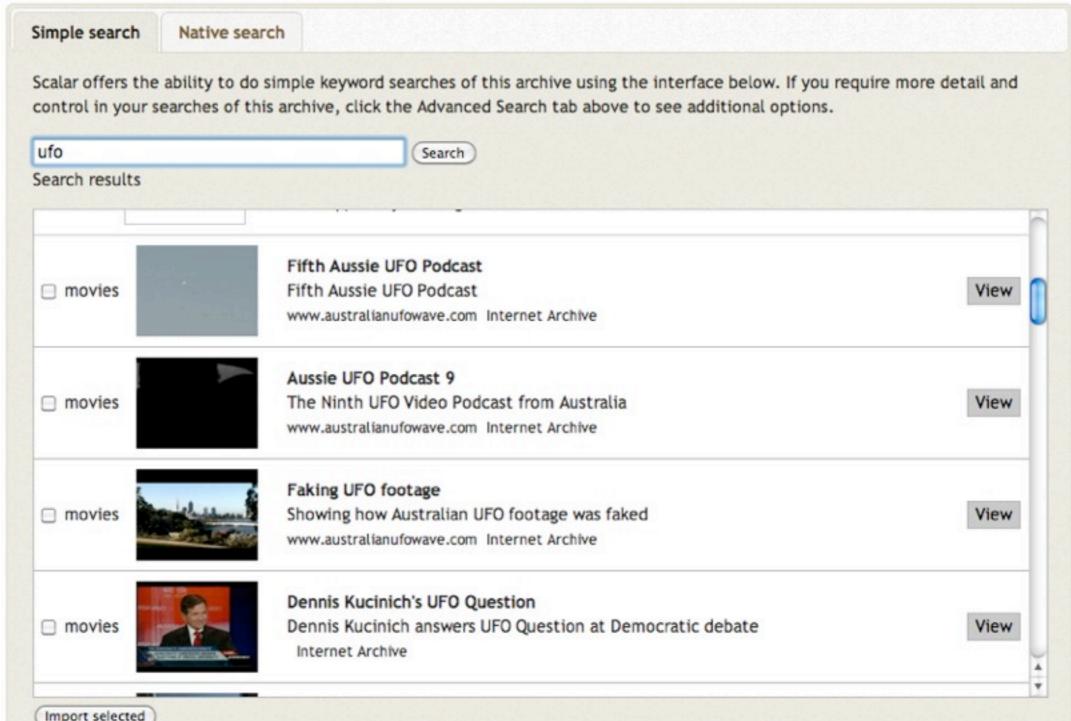




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#### Internet Archive

The Internet Archive is a non-profit digital library with the stated mission: "universal access to all knowledge." It offers permanent storage and access to collections of digitized materials, including websites, music, moving images, and books. The Internet Archive was founded by Brewster Kahle in 1996. (From Wikipedia)





#### Stored to Forget

Kevin Hamilton and Ned O'Gorman, Authors

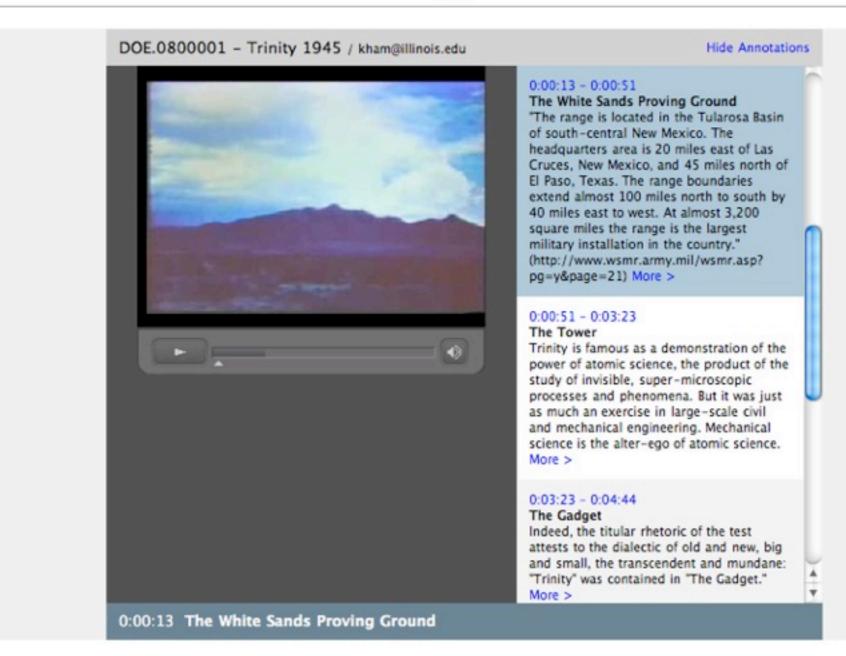
Live

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Department of Energy - Declassified Films, page 1 of 71 in

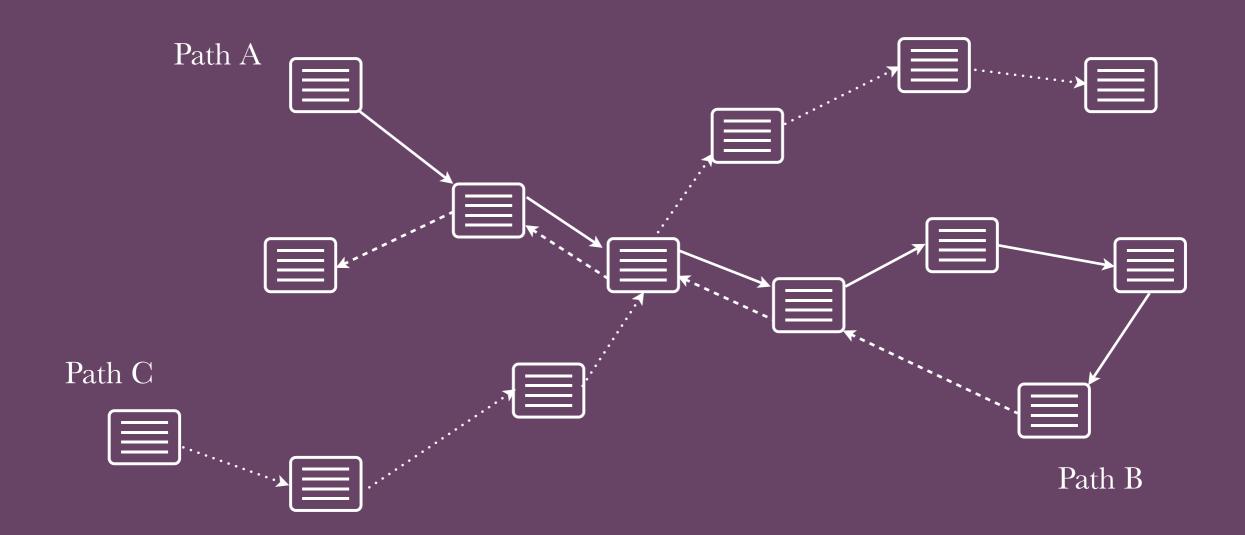
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path



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# Paths

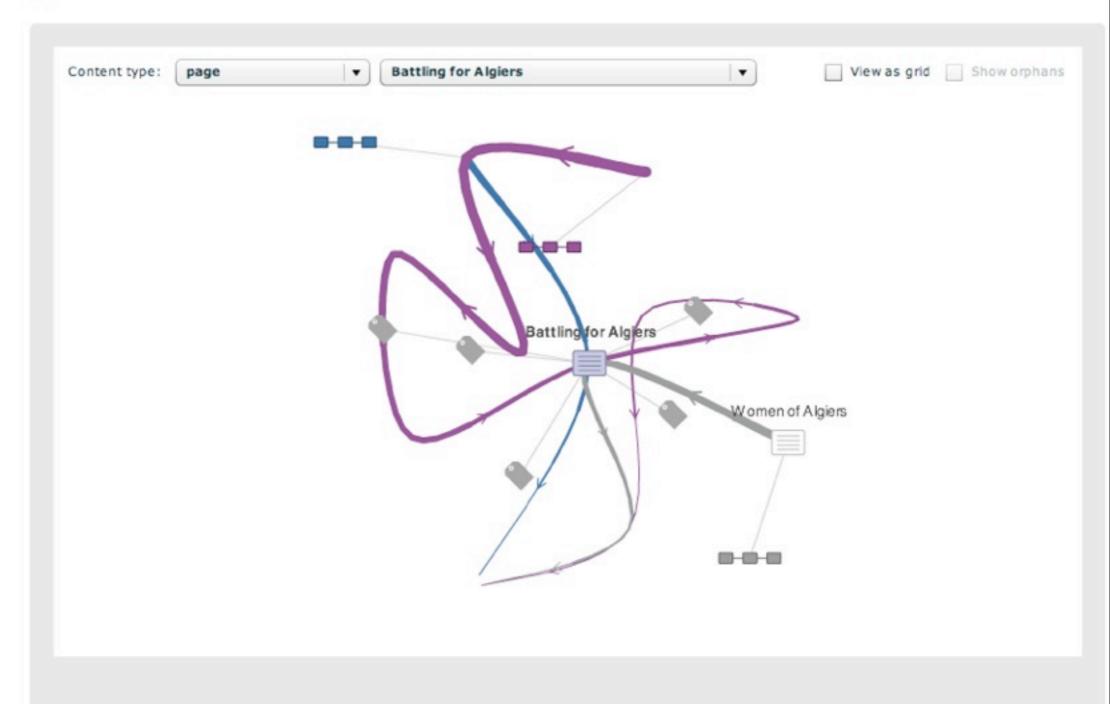


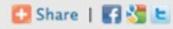


### We Are All Children of Algeria

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Nicholas Mirzoeff, Author Live





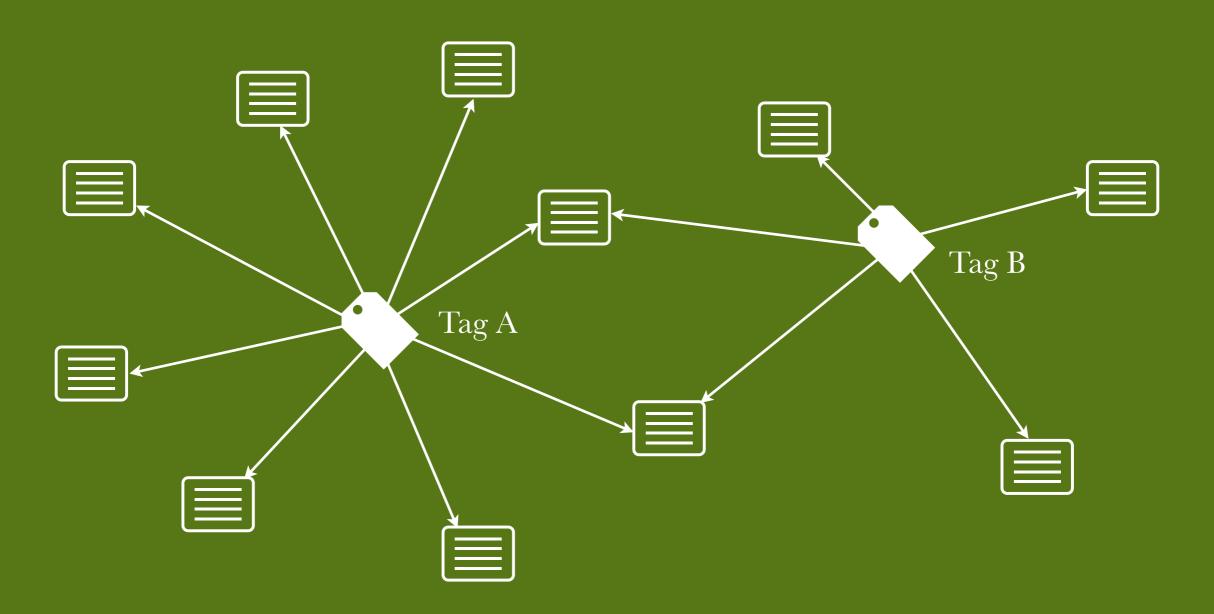


This is the live version of Resource Index.

We Are All Children of Algeria by Nicholas Mirzoeff.

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# Tags





### Hemispheric Digital Constellations: Tracing Performing **Bodies in the Americas**

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Marcela Fuentes, Author

#### Tags

spectacle poetic gesture hemispheric emergence performance art social ritual cultural agents resistance dematerialization taz situationism 404 file not found html conceptualism protocol demand justice rage stillness traffic jam minor transnationalism border thinking excess escrache do it yourself politics tactical media iterations humor theater of the oppressed state terrorism scandal alert memory Violence ethics of spectatorship dirty war disappeared paranoia magical realism insurrection threat simulation awe immigration virtual sit in digital zapatismo electronic civil disobedience semantic efficacy middle class distress uncertainty destruction betrayal values mobility migration exile digital capitalism surveillance creole democracy impurity cleansing face to face locative media arts crowd sourcing border art solidarity compassion conceptual art controversial de tenuring naivete politics of the question patriotism terror fear displacement forgetting assimilation nn red disruption parody







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