THE FIRSTNESS OF THIRDNESS

Paul Ryan

For this issue of The Anxious Prop, we turn to both to the writings and techniques of Paul Ryan. Ryan's life-long work is of particular relevance for it is in large part dedicated to developing models of notation and performance in human relations and the natural

Alain Badiou's writings on models We recently asked him about his current work, and where he would position Black Swans within it, particularly in terms

to ground our lives in bioregions rather than continuing to 'live' in nation states under the digital count." the differences between Badiou and Peirce. Badiou builds from set theory, a theory friendly to digital devices. Badiou uses Cantor's transfinite sets as given and celebrates the non-oneness of multiplicity. Peirce critiques Cantor and works toward a diagrammatic, non-algebraic notion of topology. Although aware of multiplicity, Peirce celebrates continuity, a continuity that could give us a way for no other reason than his integration of poetic, metaphoric thinking with philosophic concern. For myself, I would ground engagement with Black Swan Theory in [Charles S.] Peirce's 'firstness of thirdness.' Given our 'digital age,' I would want to understand a clear understanding of 'forcing' might help me figure out whether and in what ways 'forcing' might be a viable way to introduce the practice of Threeing in human affairs. Regarding Black Swan Theory, Badiou would be a fecund resource for engaging the theory, if He responded: "I am trying to understand how Badiou uses Paul Cohen's mathematical notion of 'forcing' My motivation here is that

the kinks of our collective process, especially with regard to the questions we want to raise about Black Swans, as metaphor and as topology. As such, hoping to trigger that curiosity further, we reprint a section of his "Introduction to the Earthscore Notation System for Orchestrating Perceptual Consensus about the Natural World." Enjoy Threeing. Luis Berrios-Negrón We incorporated Ryan's notational models into the development of this iteration of The Anxious Prop, which helped us work through

Video recording and playback, with its possibilities of time lapse and slow motion, enables us to understand natural patterns in a non-verbal way. Think of time lapse film studies of budding flowers and slow motion studies of insects. Watching these moving images, it is pos-

sible to understand the pattern presented in a single gestalt without rational inference using language. The moving image allows the natural event to occur in the mind like a fist in the hand. There is a spontaneous, intuitive appreciation of a pattern in nature. Peirce would call this

"the firstness of thirdness." This intuitive appreciation of natural patterns through perception is the fourth component of the Earthscore Notational System. It is important to understand how the firstness of thirdness relates to the categories of firstness, secondness and thirdness.

In Peirce's categories, firstness is not separated from secondness, nor is firstness separated from thirdness. There is a firstness of secondness. The "ouch" sounded by someone struck with a thrown rock is an instance of the firstness of secondness. The brute fact of the rock hitting the person is actually there, secondness. It is not constructed or determined by the person's feelings alone. Yet for the person a feeling attaches to the brute fact, a feeling evident in the involuntary cry.

breaks, i.e., only seven elementary catastrophes. Thom named these seven as follows: fold, cusp, swallowtail, butterfly, no more than four dimensions, there are that in natural phenomena controlled by the equilibrium is broken, catastrophe or smooth surfaces of equilibrium. the topologist, Rene Thom (1975). Canature can also be understood in a forwere ever all off the ground at the same time, is an instance of such firstness of photos of a running horse, don wager about whether the four ceptibility of law. Muybridge's famous of thirdness, that is, the immediate perhence only seven possible discontinuous only seven possible equilibrium surfaces, discontinuity occurs. Thom has proven The theory models the states of nature as for modeling discontinuous phenomena tastrophe theory is a qualitative method mal way using wager about Peirce provided as well for the firstness The firstness of thirdness in the catastrophe theory of eliptic umbilic done on a hooves When

domain in which catastrophe theory has not yet been very helpful. To my knowledge, the formal interrelationship of parabolic umbilic

of flow. Changes in these dimensions oc-cur because of changes in the shape of the streambed and variations in the amount score Notational System, so these seven elementary models of discontinuity conpolygons (equalsided, two dimensional shapes) only three (hexagon, square, and solid objects, catastrophe theory provides a formal understanding of events dimensions: length, width, depth, and rate smooth water. The flow of water has four in which there is a continuous flow of reader to imagine a section of a Earthscore Notational System, suggest how these notes function in the stitute the basic "notes" of the system. To cuit constitutes the "staff" of the Earthless. Just as the continuous relational cirnomena controlled by four dimensions or discontinuity possible in any natural phetitude that there are only seven kinds of camera knows with mathematical cersomeone observing nature with a video to edge. triangle) cal certitude that of all possible regular with tiling a wall knows with mathemation Euclidean Geometry, someone faced 1.e, or changes from states of equilibrium, mal understanding of geometric surfaces Just as Euclidean geometry offers a formonitor and record events (Cavell: 1982). video what Euclidian geometry is to the medium of paper. Television and video Catastrophe theory is to the medium of discontinuous phenomena. can fill the plane packed edge Based on catastrophe theory, I ask the stream Based

surface half way between the upper and lower surfaces, a pocket, on which the droplet could form. The swallowtail and increases the water may jump into the air as if jumping over a *cusp*. If a twig catches the water as it comes down, you the water can be mapped, only seven basic "figures of regulation" for the water's row very gradually, suddenly a fold will appear in the water's shape. If both the larly useful in approaching turbulence, a (Gleick: 1987). Chaos theory is particudeveloped recently called chaos theory way of modeling water flow which has behavior. I should note in passing another corresponding changes in the behavior of only seven possible surfaces on which the controlling dimensions change, there are similar manner. Whatever way the four the three umbilical models function in a fly is a like a cusp except it has another map on the butterfly model. The butterlet formation in-between surfaces would In catastrophe theory such periodic dropthe twig before it falls to the next surface. may get a droplet forming at the end of rate of flow and the depth of the stream the width of the streambed begins to naraction of the water itself. For example, if behavioral surface for the discontinuous The models provide both a control surface for the changing dimensions and a changes in the way the water behaves how changes in these dimensions control of rainfall. Catastrophe theory can model