

Box 1- If the strip to the left is the hours of the day as measured by steps, the orb to the right are the hours of the day on a dial. Although they both count the hours, they add up differently (Jacques Lacan): a) as a sum of elements, b) as elements of a sum. The latter is synchronised to the former. This works for all polyhedra w/Euler characteristic. $\mathbf{X}=\mathbf{2}$. The strip and the orb are paired with a Möbius-strip and a Torus. While the M-strip models exchange and is non-orientable, the Torus is orientable but not in exchange. The Euler characteristic is calculated with this equation: $\mathbf{X}=\mathbf{V}-\mathbf{E}+\mathbf{F}$ (Vertices, Edges, Faces). $\mathbf{X}=\mathbf{2}$ goes for a range of polyhedra and includes the sphere. Which means that any number of steps with roundups can be modelled in this way. The strip and orb are paired with topological entities with $X=0$ (which includes the $M$-strip, the Torus and the Klein's bottle). The point of the present diagram and body text is to study how the swap between $S$ and S' works (frontline to deskfront) and what can be done to get around it.
If we take the sign $\approx$ to determine resemblance, it covers this range: the same, similar, different \& other (in the sense that all these are included). Which is the specific sense in which $\approx$ determines something else than simple equality. In sum, the expression $\mathrm{Fx}(\mathbf{a}): \mathrm{Fy}_{\mathbf{y}}(\mathbf{b}) \approx \mathrm{Fx}_{\mathrm{x}}(\mathbf{b}): \mathrm{Fa}^{-1}(\mathbf{y})$-which follows Lévi-Strauss from Mythologiques to La potière jalouse-says: what $\mathrm{Fx}_{(a)}$ is to $\mathrm{F}_{\mathrm{y}}(\mathbf{b})$ resembles what $\mathrm{Fx}_{\mathrm{x}}(\mathrm{b})$ is to $\mathrm{Fa}^{-1}(\mathbf{y})$; where $\mathrm{F}_{\mathrm{a}-1}(\mathrm{y})$ is the opposite to $\mathrm{Fx}(\mathbf{a})$. So, here opposition is complex, rather than elementary (as in propositional logic): derived from the Klein's group $\mathbf{x}, 1 / \mathbf{x},-\mathbf{x},-1 / \mathbf{x}$.

So, Lévi-Strauss' (L.S.) formula is not a direct extension of the Klein's group: a term, its opposite and their inversions (the four elements above). The reason is that L.S.-contrary to Klein, who is a mathematician - is working with signifiers (i.e. myths mainly and masks in his later works). So, in Lacanian terms, $\mathbf{a}$ and $\mathbf{b}$ would be $\mathbf{S}_{1}$ and $\mathbf{S}_{\mathbf{2}}$ : a signifier and the signifier of that signifier. In L.S.' formula they are linked up with two different functions, called $\mathbf{x}$ and $\mathbf{y}$. Let us say, then, that $\mathbf{x}$ and $\mathbf{y}$ (to keep it straightforward) are $\$$ and (objet petit) a. If applicable, what do we have then?

What the /function of the split subject $\$$ applied to the signifier $\mathbf{S}_{1}$ / is to /the function of a applied to the signifier $\mathbf{S}_{2} /$ resembles what /the split subject $\$$ applied to the signifier of the signifier $\mathbf{S}_{2} /$ is to / the functional application of the inversion of $\mathbf{S}_{1}$ applied to $\mathbf{a}$. The latter is taken to be the opposite of $\mathbf{\$}$ applied to $\mathbf{S}_{\mathbf{1}}$. What L.S. did was conceivably to find a formal language that could be linked up to mathematics (Klein), in which opposite is not


Terms: \$ = subject
$a=$ surplus iouissance $S_{1}=$ master sianifier $\mathrm{S}_{2}=$ knowledge really opposite, but other. What is called the opposite in math is the other in natural history.

But from the vantage point of resemblancewhich now clearly emerges as the [forbidden] trope of contingency-the opposite determines the other: in the scope of contrasting qualia that make up resemblance ( $\approx$ ): the same, the similar, the different and other. That is, under some circumstances, contingencies features in clusters of variety that we call resemblance. So, either we have math rotely applied to the analysis of contingencies (restricted option), or we have a type of machine learning which either is powered by human agency, or is disempowering it (expanded option). In this re/configuration the focus will be on the communicative aspects of all human behaviour (Leach's ritual) or on a disembodied symbolism (myth). Opening and closing: 1 and 0.
Box 2. Lacan was concerned with discours, I am asking what the implications might be that we instead concern ourselves with parcours. This alternative follows from the twotiered analysis of the strip and orb of polyhedra, designed as topological models.
Hence my concern is with the parcours of the master, the parcours of hysteria, and the parcours of the university. And also of the overall parcours involving mastery, hysteria, analysis and university: as the standard life-cycle of anaptúxis. When the positions are held by the terms, we are in a training phase. While when the terms are held by the positions we are in an enabling phase, where explanation and materialisation conjoint.

Which brings us to how the quadrant $\$->\left[\mathbf{S}_{1}->\right.$ $\left.\mathbf{S}_{2}\right] \rightarrow>a$ affect the other of Lacan's quadrants: truth $->$ [agent $->$ other]->impact (which then will either be arrested [0] or will be driving [1] the
first quadrant). Please note the similarity between the way Lacan sets up the two quadrants and the Klein's group. Which means that the quadrant truth $\rightarrow$ [agent $\rightarrow$ > other] $\rightarrow>$ impact alternates between being contained [0] by the quad-rant $\left.\mathbf{\$ \rightarrow >} \mathbf{S}_{\mathbf{1}} \rightarrow \mathbf{S}_{\mathbf{2}}\right] \rightarrow \mathbf{a}$ and containing it [1]. In other words, the application of $\mathbf{F x}(\mathbf{a}): \mathrm{F}_{\mathbf{y}}(\mathbf{b}) \approx \mathrm{Fx}(\mathbf{b}): \mathrm{Fa}^{-1}(\mathbf{y})$ to the truncated nomenclature from Lacan $(£)$ yields a reversibility that we find in the Klein's bottle (which L.S. uses in La potière jalouse).

In other words, we have the possibility of considering one mode in which the imagination quadrant truth $\rightarrow$ [agent $\rightarrow>$ other] $\rightarrow$ >impact is arrested by the symbolic quadrant $\$ \rightarrow>\left[\mathbf{S}_{1} \rightarrow>\mathbf{S}_{\mathbf{2}}\right.$ ] $\rightarrow \mathbf{>}$, [ 0 ], and another mode in which the quadrant truth $\rightarrow$ [agent $\rightarrow$ > other] $->$ impact facilitates the quadrant $\$ \rightarrow>$ [ $\mathbf{S}_{1} \rightarrow \mathbf{S}_{\mathbf{2}}$ ] $\rightarrow \mathbf{>}$ [1]. The alternation between arrest/facilitation is part of a standard learning protocol in which the learning imagination will be arrested by the symbolic, till it it learns. Then a shift will occur by which the symbolic is facilitated by the imagination: process of communicative interaction.

Communication as it can be considered as intrinsic to machine learning (M.L.) at all levels of manufacture/editionThat is that the aspect of behaviour that we are interested in, when we are concerned with Leach's sense of ritual: the communicative aspect of behaviour when it is involved in the manufacture and editioning of artefacts, where the learning is tied up with the machine-like workings of artefacts (in different modes), which will correspondingly define the symbolic. In sum, what communicates generatively through learning is a candidate definition of anaptúxis in M.L.

But here we are in a situation similar to when the mounting of a polygon from a strip to an orb, features two senses of montage: the one i cinematographic, while the other is hyper-dimensional. While we have previously seen how the Möbius-strip is indicated in the tiling-steps-in a succession of joining edge-to-edge til the orb is complete-there is a shift in the topological backdrop as soon as the polygon is completed (orb). Where the Möbius-strip was previously a guide, the Torus is facilitated/prompted by the polygon-orb. This shift is of major importance to conclude here.

Simply because, as the watch overtakes the diurnal cycle-once it is synchronised with it-the signifier of the signifier $\mathbf{S}_{\mathbf{2}}$ shifts into becoming a signifier $\mathbf{S}^{\prime}{ }_{1}$. This is the swap: $\mathbf{S}_{\mathbf{1}} \rightarrow>\mathbf{S}_{\mathbf{2}}$ becomes $\mathbf{S}^{\prime}{ }_{2}<-\mathbf{S}^{\prime}{ }_{1}$ and then the swap (which is a short-circuit): $\mathbf{S}_{\mathbf{2}}<-\mathbf{S}_{1}$. This is the logic of simulation, substitution and erasure. That is, the mechanism whereby what was the frontline is exchanged for the frontdesk: from the signifier to the signifier of the signifier. The question, then, is in which way L.S. algorithm $\mathrm{Fx}_{\mathrm{x}}(\mathbf{a}): \mathrm{Fy}_{\mathbf{y}}(\mathbf{b}) \approx \mathrm{Fx}(\mathbf{b}): \mathrm{F}_{\mathrm{a}}{ }^{-1}(\mathbf{y})$ perhaps can help us stay clear of this repressive turn.

It is quite clear by now that L.S.'s formula is not any mathematical equation but an algorithm-in Marvin Minsky's definition, an 'effective procedure'-that applies to a topological segment in which explanation and creation are inseparable: which is


Box 3-Klein's bottle. Red is positions. White is terms (cf, Box 2). Of the entities with Euler characteristic $\mathrm{x}=\mathbf{0}$ the K -bottle sustain a two-tiered strip/orb model. the sense I have put into anaptúxis (growth, development, explanation). The potentials that may lie in $F x(a): F_{y}(b) \approx F x(b): F_{a}{ }^{-1}(y)$ to study the communicative interaction of lateral drifts (of which one might find parallels in L.S.'s study of myths). Such as the lateral drift from the manufacture/edition of the Nansen passport, discussed in 142, to the lineup of metadata/boxing of the item in archiving.

Between the first and the second there has been a publication (without which the lateral movement above would not be possible). The publication in the form of a small exhibition. So, if $\mathrm{Fx}_{\mathrm{x}}(\mathbf{a}): \mathrm{F}_{\mathbf{y}}(\mathrm{b})$ (manufacture/edition) resembles $\mathrm{Fx}(\mathrm{b}): \mathrm{Fa}^{-1}(\mathrm{y})$ (metadata/box), the box, can be seen as the other of publication (which is archiving): $\mathrm{Fa}^{-1}(\mathbf{y})$. In this scope, publication is $\mathrm{F}_{\mathrm{a}}(\mathbf{y})$ : in $\boldsymbol{£}$ it spells that applying $\mathbf{S}_{1}$ to $\mathbf{a}$, the cause of drive a, has been moved and the split subject $\$$ will follow suit. It anticipates and postpones the archival acts. And it means that we can move from frontline activity, to frontline activity.

