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- a. Physics
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- e. Sociology
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**Ω. Word !**

A mystery wrapped in an enigma!

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pdf, html, md**Bibliography:** en.wikipedia.org**μDISC**

The beginner's mind is the mind of compassion.  
When our mind is compassionate, it is boundless.  
Shunryu Suzuki

**Mailing List (fifty) \***

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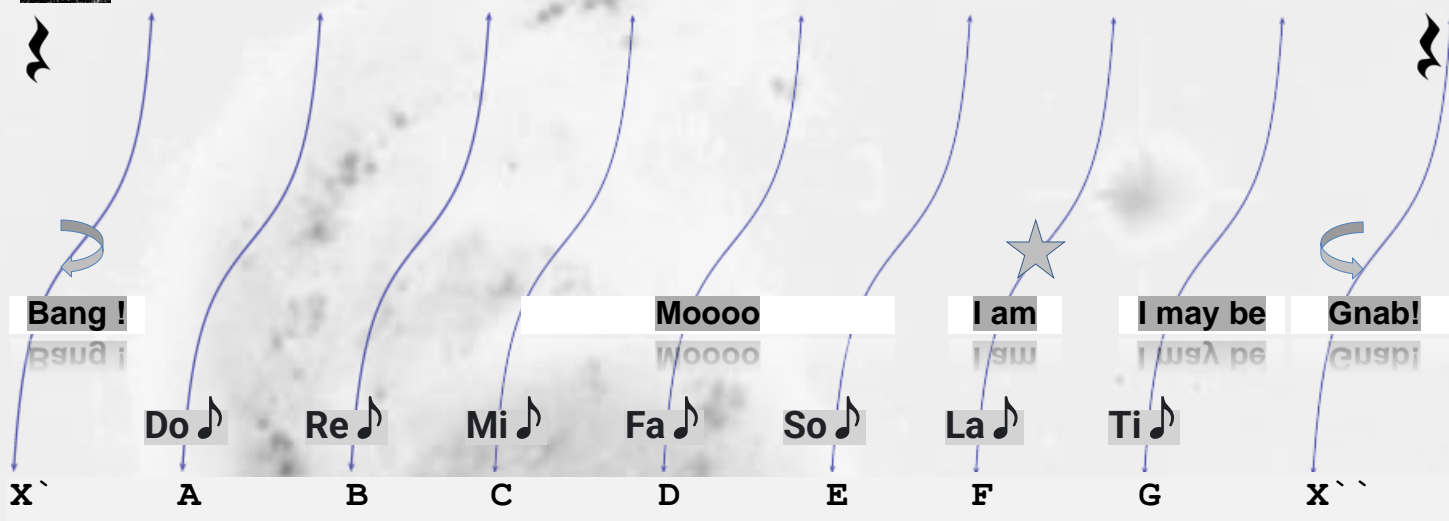
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I N   S Y M P A T H Y   W I T H   A L L   B E I N G S



# Discontinuity



## Emergent Realms

Given nine successively emergent realms, each distinct from the prior and next realm:

Within any realm it is **not** possible to reliably project the nature of a realm, based on the conditions found in the adjacent realms.

The realms are labeled as follows:

X' - unknowable

✓ before the start-of-time

A - Physics

✓ mass & energy, time =  $T_0 + a \text{ bit}$

B - Chemistry

✓ primarily molecules, non-consciousness

C - Biology

✓ primarily reproducing, semi-consciousness

D - Psychology

✓ primarily discerning, consciousness

E - Sociology

✓ primarily communing, self-consciousness

F

Epistemology

✓ primarily knowing, meta-consciousness

G - Ontology

✓ primarily being, silenced-consciousness

X'' - unknowable

✓ after the end-of-time?

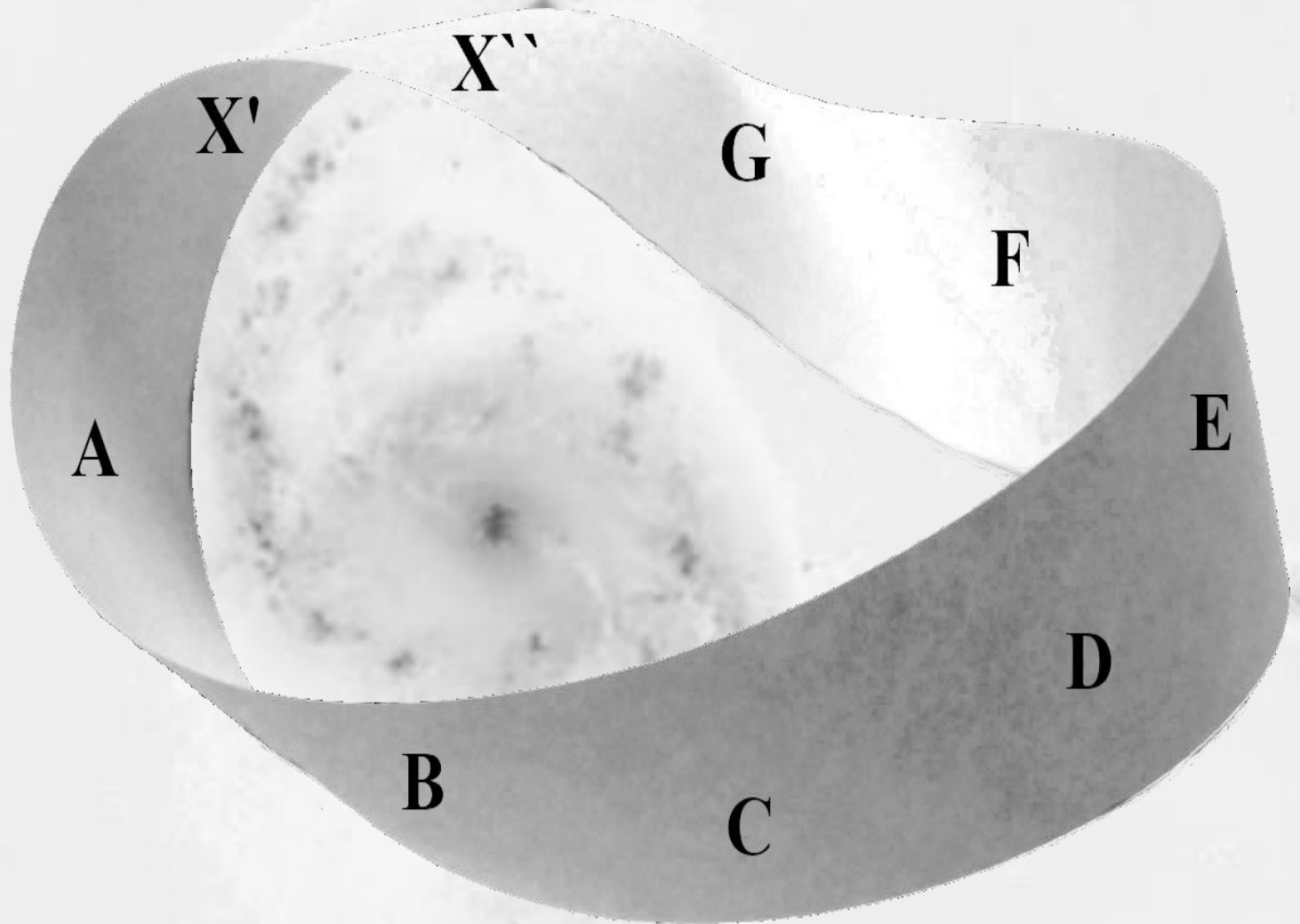
## Nine Tangent Curves

Imagine a set of tangent curves:

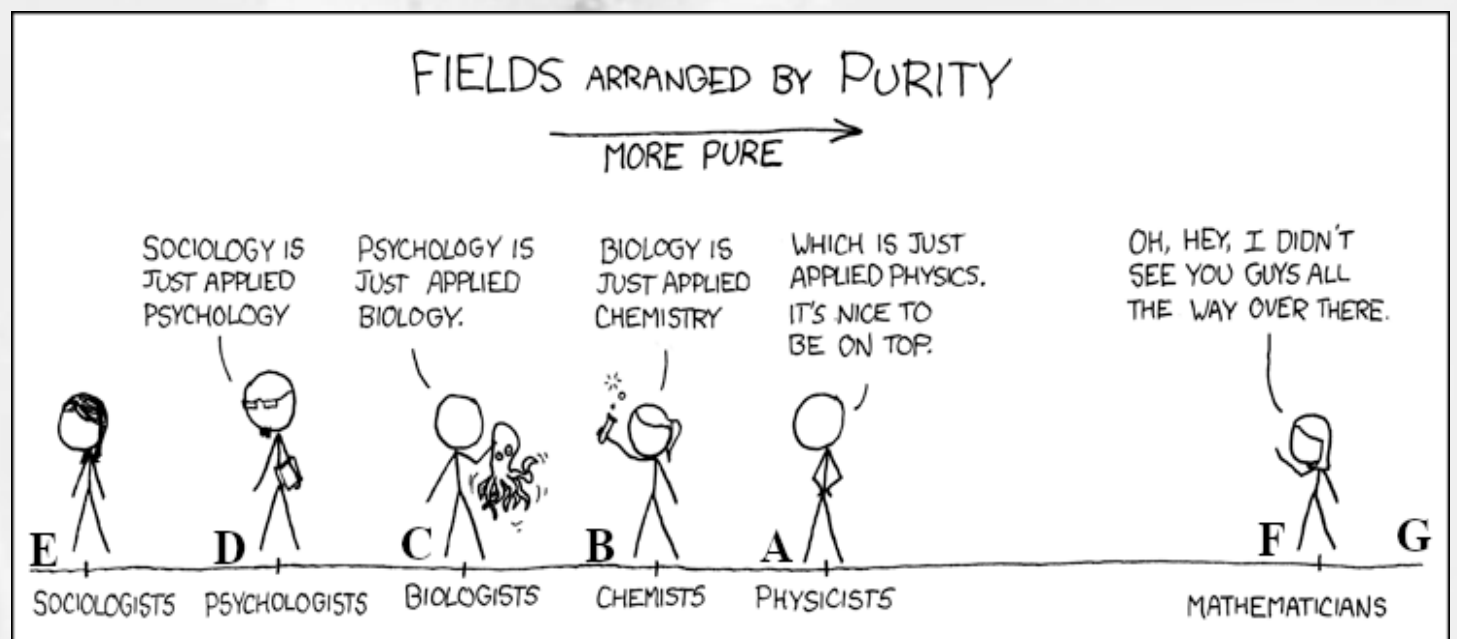
- Side-by-side
- Elongated and flattened 'S' shapes
- Asymptotic boundaries
  - ✓ non-overlapping boundaries
  - ✓ non-touching boundaries
- Discontinuous curve-to-curve transitions
- An inflection point mid-curve

## An Interpretation

1. We are at home in [F] epistemology  
We are able to postulate and study [A] - [F]  
Presume [F] relies on language and math  
Presume that most animals remain in [C] - [E]
2. Through meditation many experience [G]  
We return to [F] to convey the essence of [G]
3. We propose a new emergent realm [X'']  
We speculate about the essence of [X']  
We speculate about the essence of [X']  
Both are unknowable
4. Are [X'] and [X''] the same?
5. How are emergent realms related?  
along a line, or  
along a circle
6. Are the gaps between boundaries real?  
Are the gaps an artifact of linguistic limitations?  
Is Gödel's 2nd theorem a factor?



xkcd



IN SYMPATHY WITH ALL BEINGS



# Commentary

## Circle vs Spiral

The first order question regarding a map of ideas was the line versus the circle - or the fancy Mobius strip circle. The next order question pertains to the fancy / plain circle vs the spiral.

The spiral is a circle that stretches out in a new dimension, either a third physical dimension like a sphere or stretches out in the fourth dimension of time.

You can never go back.

So while traveling around the nominal circle the path is progressing through time and a return to the starting point is offset by a bit of time gap, though qualitatively back to where one started.

## Euclidian vs Mandelbrot Space

Euclidian space is what came 1<sup>st</sup> in the world of spaces.

There are well define Platonic ideal forms such as the sphere and circle and point corresponding to 3, 2, and 1 dimensions, noted as x, y, z extents. Plato could only count to three.

In the 1970's Benoit Mandelbrot devised a *fractional* dimension or geometry. News to people and Father Scientists (ooo aaah) but not so new to Mother Nature, Mom hates a clean straight edge and in biology really hates Euclidean spheres and cubes (ouch).

Mother Nature totally embraces fractal geometry.

Find on-line an animated sequence that shows the Mandelbrot set permutated over an infinite range (depths), yes, Infinite.

Neither Euclid nor Plato could count that high. Mandelbrot starts at infinity and counts backwards.

The mathematical formula that relies on imaginary numbers (they are real sort of) and a bit of computational visualization wizardry yields coast lines, mountains, leaves and trees, everything.

Fractals also have a non-trivial role in very practical everyday matters, not just in some whacko's imaginary math mind.

How *long* in proper miles, feet, and inches is the coast of Britain, the main island not including Eire and other islands?

Infinite miles long

It all depends on the *fractal depth*  
at which you measure

What is the surface area of a 12" beach ball?

Can you guess?

Isn't there a pi formula for that?

Wrong, it is *infinite*, again

It all depends on the *fractal depth*  
at which you measure

How much paint should I buy to paint my house?

*Infinite* gallons

and a really really small brush

Measuring the *surface* area of anything real  
is impossible

best you can do is an estimate

see: calculus

It all depends on the *fractal depth*  
at which you measure

Why is this bit of math *so* important in the context of tangent curves and the relation between physics and chemistry?

It is at the boundaries that never touch where imagining an infinitely long curve that never touches a boundary is made a wee bit easier to visualize with fractals of infinite depth.

*Easier* relative to the *fractal depth* to which you judge *easiness*.

Analogously, fractals may help us understand the tangent curve's relation to the transition from one realm (physics) to the next realm (chemistry).

Who knows? This is all speculative.

No answers here.

## Inflection Point

If you ask anyone on the street, What is the most interesting thing about tangent curves that set them apart from all the rest of the graphs?

Everyone will point out the asymptotic boundary conditions, of course.

Those are mind benders for sure.

The bit that really puts a bug up my ass is the *inflection* point(s).

That is some cosmically confusing stuff, particularly when used *analogously* (5th grader's humor :-).

## Inflection Point

The boundaries are surreal while the point isn't even there. Maybe going back to sine and cosine wave graphs should be considered, less bending involved.

There are a number of fascinating analogous examples to be explored but first the concept of an *inflection point* must be examined.

At its simplest it is a quantitative and qualitative transition which is exactly located (along the X axis) at a *point* around which there is bi-lateral transformed symmetry (a twisted mirror image).

In this context and throughout, the left half is **not** negative space and the right half is **not** positive space. The two spaces are transformed mirror images of each other, where flipping the graph changes nothing, quantitatively *nor* qualitatively. Point taken?

*Points* are the opposite of infinite asymptoticity, they are absolute zero in extent. That is more mind bending than infinity any day of the week. *Everything* that *anyone* talks about has some extent (and duration), but not *points* (no point talking about it - 5th grader's humor).

## Biology

- C - Biology
  - ✓ Primarily reproducing
  - ✓ Primarily defined relative to birth and death
    - Plants, animals, creepies
    - viruses, bacteria, fungus, mold

What if you *profoundly* changed your perspective and placed *birth* at the inflection point in a curve extending to *infinity* back and forth forward and backward here and there?

*Infinity* in this context means *undefined*, as in

- "What is "born"?
  - ✓ fertilized or breather
- "What is "dead"?
  - ✓ nonfunctional or compostable

In other terms and words this idea may be found in books and movies - reincarnation.

The entire history of informal and formal scientific study has focused on only one half of the biological realm - the *right* half of the tangent curve *starting* at the inflection point to infinity (the right bound of the curve).

What about the mirror image, the left traveling half of the tangent curve to infinity (the left bound of the tangent curve)? PhD in Mirror Biology? Anyone?

Don't worry, there are analogies galore in each of the other realms. Your PhD in Mirror Biology will not be a laughable piece of paper for long. Biology is merely the most accessible point (pun) of entry to this whole topic.

Expecting answers, deeper insights, solutions to problems? Sorry, I am only here to ask disturbing philosophical questions, where an engineer will get their hands dirty with actual problem solving and stuff. Good luck with that!

## Physics

- A - Physics
  - ✓ Mass & energy, time = T 0 + a bit
  - ✓ Positive vs Negative, spin, up vs down
  - ✓ Atoms
    - Electrons [-]
    - Neutrons [NA]
    - Protons [+]

What is the deal with that? On a tangent curve the *neutron* is at the inflection point and the other two are running off to infinity.

Skipping back two realms of study (\*ology'isms) Physics presents a near-infinite boundless array of tangential analogies. It is the **only** realm to actually acknowledge the whole *mirror world* concept and has real people (vs imaginary numbers :-)) studying this shit and getting pieces of paper to prove they tried (PhD, way deeper).

- Baryonic vs Dark - matter and energy

A relativistically new field of study but with 85% of the universe made up of the stuff it is about time that someone took a look. This particular realm has bearing on *chemistry* for sure, not so sure about *biology* and the rest.

Though the quantum dude(tte)s messed up the only truly simplistic tangent curve analogy.

- Wave-particle duality, baah!

## Chemistry

- B - Chemistry
  - ✓ Primarily molecules

A bit of a stretch, but people love patterns and apply them everywhere once they put their mind to it.

The periodic table is the road map for chemistry.

Periodically starting with the hydrogen molecule with one of everything and ending in infinity with an ever-increasing number of everything bundled together for an ever-decreasing length of time.

Infinite stuff for zero duration is the end game and analogously works in the tangent curve realm **only** if the hydrogen molecule is placed at the *inflection point*.

Back to the idea of *PhD in Mirror Chemistry* (a la Biology) a worthless piece of paper for sure, today, but someday big big buck\$.

### Meta-Inflection Point

Getting all *meta* for a moment.

We are at the narrative's inflection-point between the *hard sciences* and the *soft sciences*.

Good luck with that, a total zero. Going forward the methods remain exactly the same but the application is totally willy-nilly.

The exact transition from willy to nilly is undefined.

The *hard sciences* are relatively easy to tackle and still sound like it all means something.

The *soft sciences* are relatively easy to bullshit and sound like it all means something.

Objectivity flies out the window and anyone may be an expert.

So with that in mind traditions will be upheld herein.

### Meta-Meta-Inflection Point

No infinite regress, please. This is it, the last *meta*.

What if the *big bang* minus a bit is the *Grand Unification Theory of inflection points*, strictly speaking without all the mathematical notation and such.

It is **the point**.

To the right (or left) there is life the universe and everything that has been arguably experienced by the people for 100's of thousands of years and *discovered* by the people to have thus far spanned 13+ billion years.

- unless you are biblical
  - ✓ then 6+ thousand years
  - ✓ which puts a lie to the evolution narrative
    - and billions of years narrative

### Meta-Meta-Inflection Point (b)

No infinite regress, please. This is it, the last *meta*.

Strictly and legally speaking **not** a lie.

- being (not a pun, it is the only appropriate word)
  - ✓ the same *meta* level and all

(b) **This** is a simulation running on a giant-ass computer unimaginable (slightly imaginable, like right now) in its underlying technology, though probably **not** bits of melted sand and tiny tiny metal wires; maybe one or two of those *quantum* computers everyone is talking about over at Google.

(c) **This** (not a lie... see above) is a very different *scale* of existence.

- see Men in Black, a movie
- see Horton Hears a Who, animated movie
- see Eraserhead, a twisted movie
  - ✓ not at all germane

(d) **This** (get over yourself) is a *dream*, where some dude(tte) will awaken with a massive headache due to the nuclear bombs and all

- see many books
- and a few movies
  - ✓ and see *Eraserhead*, a twisted movie
  - ✓ loosely germane to what follows

### Psychology

- D - Psychology
  - ✓ Primarily discerning, consciousness

Since the beginning of a peopled history, usually just before a people whacked a non-people animal, people have looked at animals (non-people-animals) and wondered what if anything are you thinking? You and the heard should def **not** go to the watering hole at tea time and interrupt the people.

Nothing personal but we will kill you and eat you for supper.



## Sociology

- E - Sociology
  - ✓ Primarily communing, self-consciousness

If the planet somehow spewed forth a single people there would be no *Sociology* where *social* requires two or more people to interact.

Every author would be bored and out of business without *sociology* (and the pre-requisite of two or more people).

AUTHOR: Today I had eggs for breakfast and saw a robin.

AUTHOR: I know. Not only that, I read this and wrote it too.

AUTHOR: Oh.

There is strong evidence that non-people-animals *may* be sociological also, if not pathological.

Part of the problem is people-bias by the people studying non-people-animals.

Half the biasness is anthropomorphizing non-people-animals; the other half is repressing and obstructing studies that may result in law suits filed by non-people-animals for centuries of perceived abuse and out-right homicide.

There is suspicious evidence pointing to a *super-secret* world agency dedicated to keeping people from recognizing non-people-animals as animal-people.

- a renegade people group is OK with that if animal people pay taxes
- further evidence suggests those people are headquartered in Alabama and Texas
  - ✓ Cancun Cruz Ship is president

## Epistemology

- F
- Epistemology
  - ✓ Primarily knowing, meta-consciousness

*Knowing* is the keystone of this whole enterprise.

Meta-consciousness - knowing that we know and doing something about it - has gotten people into trouble for as long as there has been meta-consciousness.

Without *knowing* we *know* people would be leading idyllic lives in various parts of the planet; frolicking and all; eating healthy; watching sunsets; Communing with nature on nature's terms 24/7/365 for life.

Wait one darned minute!

Who in hell (satirical reference) thought this whole *knowing knowing* business was a good idea?

What happened? What went wrong? Oh.

The people dropped a nuclear bomb on another people's house because some chick who popped out of a dude's ribcage and took one f'in bite out of an f'in apple?

REALLY!?!

Sociological tangent curves, of a biblical proportion, place an apple at the inflection point and a nuclear explosion pretty darn close to one or the other boundaries.

Maybe *Mirror Sociology* got a better deal.

## Ontology

- G - Ontology
  - ✓ Primarily being, silenced-consciousness

*Being* and nothingness, and the unbearable lightness thereof.

This is the tricky bit to life the universe and everything and tangent curves with *inflection points*.

Arguably *Being* may be placed in the realm of [X`] and [X`] renaming both *Being`* and *Being``*; or at either boundary of both, outside both realms as sort of buffers to everything else, thus adding *Being* in between the *pre-Big-Bang* (T minus a bit) and *Physics* (T plus a bit) realms.

Basically unknowable but one step up the ladder.

This gets into an unresolvable debate similar to that of the *Grand Unification Theory* of various *string theories*.

- Are we all talking complete and utter gibberish
  - ✓ that happens to be the *same* gibberish
  - ✓ only using slightly different words
    - aka mathematical equations

*Being* (aka Ontology) has the advantage of being (pun) a well-established PhD-worthy gibberish (with absolutely **no** mathematical equations, Yeah!).

Further, *being* presumes a *thinker* (or anti-meta-anti-thinker) where *physics* in its contemporary form (vs pre-industrial philosophy of sciences) does **not** presume a *thinker* per se (excepting those of the *divine* being realm and Descartes who *am*).

## Unknowable

X` & X``

mu





# Word !

IN SYMPATHY WITH ALL BEINGS