

field notes

from blueatlas

mctavish

Table of Contents

the repair(*)

001.....	3
002.....	3
003.....	4
004.....	5
005.....	7
006.....	9
007.....	11
008.....	12
009.....	14
010.....	15
011.....	16
012.....	17
013.....	18
014.....	19
015.....	20
016.....	21
017.....	22
018.....	23
019.....	24
020.....	25
021.....	27
022.....	28
023.....	29
024.....	29
025.....	30
026.....	30
027.....	31
028.....	32
029.....	33
030.....	34
031.....	35
032.....	36

033..... 38

034..... 41

035..... 43

036..... 45

037..... 46

038..... 48

039..... 50

040..... 53

041..... 54

the repair(*)

.._||_.. _ _ .. || ..

. <|.|> .

.._|| .. _ .. || ..

*it was like this every
morning ...*

001

..|. the repairman rider passenger lone bird |..|

._|_ grass blade dyke (our hero zero rider ze) _|.

**..|. left the throng of city depot |..| |.| arrived
alone worn suitcase sandwich lukewarm coffee
thermos -- || tepid brown liquid greasy paper |+|
+_+ rusted texaco station folded map #_# &=^
urgent mission || ..|. fix the system ^.. |.| repair
reclaim rebuild reweave restore &_& || this prairie
meadow sequestration +0+**

002

**..|. receiver net web electron field short wave
thatch |..| |.| wireless signal code -- || number
station urgent message |+| +_+ change of course
#_# &=^ turn back the clock (re)do (red)o stop
the gears || ..|. throw the switch ^.. |.| turn the
helm the wheel the tide the orbit &_& || mend
restart retrain reboard rewire +0+ +_+ electrify set
in motion ||| &=^ animate & breathe |..|**

._|_ once again repeat again retie retry reweave
again _|. |.| a name uttered speak again -- ||
reclaim restore correct |+|

003

..|. downward glance creased map marked path
|..| |.| radio research building institute ..- ||
 factory platform station |+| **+_+ slant rusty hinge**
 door sunlight #_# **&=^ spider housings metal**
glint antenna || ..|. vines static deep dark corner
silence ^.. |.| vinyl recordings specimen drawers
&_& || faded paper census sketchpad marks +0+
+_+ lost language fallen angels ||| &=^ frozen
role enactments |..| ..|. jukebox score ..- |.| piano
 rolls |+| || **silent tattered scripts #_#**

.|_ stored inside this moss bound station _|. |.|
critical to the mission ..- || notes numbers data |+
+_+ handbook manual translation codes #_# &=^
 recorded ghost grass chorus || **.|_ dried pressed**
limbs reed blade stem seed ^.. |.| circuit diagram
 equations **&_&**

004

..|. this was the morning this was the place |..|

._ repairman rider passenger lone bird **_|. |.| grass**
blade dyke (our hero zero rider ze) ..- || arrived
 on platform wasteland meadow track |+| **+_+** worn
 suitcase sandwich **#_# &=^** tepid brown liquid
 thermos || **._ creased map ^.. |.|** compass light
&_& || lucky strike +0+ **+_+** hat axle pocket knife
|| &=^ coins for the boatman |.| **._ steam**
 engine captain **..- |.|** singer all aboard |+| || ticket
 agent paper **#_# +_+ tin cup beggar thief ||**

..|. electric magnet migrate translate |..| |.| hero
zero suitcase clock map train nomad ..- || boat
 bird data airbase data cube data curved space |+|
+_+ prism lattice fabric timestamp schema graph
#_# &=^ reify untie unfold unroll || ..|. electric
orbit ghost force ether spark ^.. |.| specimen
 drawer weather static wind-blown number station
&_& || solar noise cloud formation storm titration
 wireless smoke-filled sky +0+

._ broke ground broke thatch broke net broke flow
_|. |.| telegraph rhizome circuit network
junction ..- || flag siren point nutrient carbon
 tangle |+| **+_+** broke ratio physics orbit fixed-point
 evolution **#_# &=^** clue drawer box film
 parchment vinyl || **._ blood feather stalk beak**

grass root ^.. |.| paper stamp store mark transect
 photo record image cell **&_&** || before axe pick
 shovel hoe oxen plow +0+ **+_+** before hard ground
 was broken ||| **&=^ still woven yellow green**
ticker _|. .|_ tape pulsed code transmission ..- |.|
 echo vacuum tube transistor |+| || circuit still
 electrified #_# **+_+ & living** ||

..|. ignite ! |..|

005

..|. the repairman rider passenger lone bird |..|
|.| grass blade dyke (our hero zero rider ze) ..- ||
 looked back |+| **+_+ not again before #_# &=^**
but before that long ago once upon a long away
|| ..|. far away geologic layered canyon way back
^.. |.| glacial pressed rock far back &_& || urgent
 mission +0+ **+_+ rescue resurrection ||| &=^**
artifact storage cave recording trace |..| ..|. bones
..- |.| fossil tooth |+| || once again repeat again
retie retry reweave again #_# +_+ a name
uttered speak again || &=^ reclaim restore ^.. ..|.
 rewind **&_& |.| redeem +0+ || correct |||**

._ shattered glass cadenza _|.

..|. industry(!) |..|

._ stop gear _|. |.| backspace ..-

..|. particle wave oscilloscope |..| |.| rhythm beats
tonal frame measure arc ..-

._ sanctify _|. |.| dance score action plan ..- ||
 syntax grammar punctuate |+| **+_+ formula method**
 outline theorem proof #_# **&=^ silver set of slides**
|| ._ count map pulse ^.. |.| particles of speech
&_& || observe measure metric record journal data
 log +0+ **+_+ structure filter draw blueprint box |||**
&=^ cell lattice web net moth flame _|. ._

.._||_.. _.._.. || ..

.<|.|>.

.._|| .. _.. || ..

formula physics flow heat ..- |.| electric gear
locomotion transformation |+| || fold reduce fix
mend undo redo sew sow #_# +_+ **archive find**
search echo || &=^ resonate release ^..

006

..|. fire ash carbon gone |..| |.| nothing none
empty not ..- || theory of null numbers |+| +_+
 vacant absent zero space #_#

._ theory of sparse matrix _|. |.| **an absence ..-** ||
 exponential decline |+| +_+ crash . #_#

..|. holes in the matrix |..| |.| gap(s)- || column
 row |+| +_+ moth hole black hole #_# &=^ **space**
silence fact ||

._ theory of null values _|. |.| **silence of null**
values ..- || neon vacant blinking light |+| +_+
 empty storm-drain alley #_#

..|. cell number table |..| |.| column thicket ..- ||
 stream set row |+| +_+ coordinates paths city
 streets #_# &=^ **asphalt chess board too-long**
fair || ..|. halogen labyrinth playing cards ^.. |.|
 row boat row red turnstile coins &_& || subway
 memory map +0+

._ the problem of sparse matrices _|. |.| **absence**
..- || not known |+| +_+ not values #_# &=^ not
 join || ._ **not tied ^.. |.|** not said &_& || empty
 cells +0+ +_+ blank hole gap ||| &=^ **knot record**
 |. . not knot ..- |.| forget forgot |+| || never
 known #_# +_+ **not filled ||** &=^ not asked ^.. ._
 erase erasure &_& |.| not zero not silence +0+ || a

lack of air ||| +_+ a lack of mark _|. &=^ missing
value(s) ..- .|_ something stolen |+| |.| **not revealed**
not found #_# || not thought of not dreamed of ||
+_+ not imagined ^.. &=^ not lost &_& .|_ **not**
lonely +0+ |.| not a huge hole in the ||| || sky _|.

007

..|. parameter variable matrix |..| |.| grid
structure thing ..- || observation frame tool |+|
 +_+ equations models contours #_# &=^
distillation estimation || ..|. syntax set domain &
range ^.. |.| functional translation &_&

._|_ not constrained in columns _|. |.| **not implicit**
static vertex stone ..- || explicit fluid statement
 sets |+| +_+ reified relations #_# &=^ triples || ._|_
articulated ^.. |.| joins &_&

..|. the lattice the ladder the sky |..|

._|_ queer isocline bent contour curve _|. |.|
topographic skew ..- || blue green florescence
 rush |+| +_+ wide-hipped hue #_# &=^ the
 morning light chlorophyll || ._|_ **rubbed blades**
rain or dew ^.. |.| hush suspended ready electric
&_& || whispered static light +0+ +_+ the lattice
 the ladder the sky |||

..|. slender stem blade .&. meadow |..| |.|
harmonic structures ladders heavens ..- ||
 tonality ecology dynamics systems weather |+| +_+
 synthesis loom radio sky #_#

008

..|. photosynthetic fusion carbon pool |.. |.|
sequester sequester bury deeper ..- || down &
 under & soil & fossil & black oil |+| **+_+** ink
 memory frozen fire #_#

._|_ this then this a ritual grassland reclamation _|. **|.| (re)enactment ..-** || action painting action
 coding |+| **+_+** abstract insurrection #_# **&=^**
 repair sound reverberate || ._|_ **thrum thatch call**
 ^.. **|.|** a bird blade leaf stem **&_&** || frequency
 vibration +0+ **+_+** signal short wave ||| **&=^**
modulation resonance _|. .|_ radio photo
 destination **..-** **|.|** a photosynthesis |+| || transfer raw
 vertex junction pivot pools #_# **+_+** **food web**
weights & likelihoods || &=^ circle orbit cycling
 need ^.. ._|_ birth growth death decay **&_&** **|.|** de
 compose release +0+

..|. faint signal pale wave slow current faraway
transmission |..| |.| faded recording ..- || long ago
 the far away a t-cell twist like this it goes |+| **+_+**
 that jukebox love song jukebox archive jukebox
 dance song #_# **&=^** **rusty turnstile chance song**
billiard dice song co2 roulette || ..|. trophic past
text particles of speech ^.. |.| trophic cascade light
 water steam then ghost **&_&**

._|_ corner bar stool _|. **|.| the repairman rider**

passenger lone bird **..-** || grass blade dyke (our
hero zero rider ze) |+| **+_+** napkin blueprints cipher
curves & codes **#_# &=^** beer-stained formula
calculations configurations || **._ phase plane**
transformations ^..

..|. trace erosion fragment shadow window time
|..| |. season shifted local sundial noon-line
fragment **..-** || blueprint blue light paper pressing
|+| **+_+** chronometer opacity odometer silent
breath grass blade whisper **#_# &=^ vapor ghost**
carbon cycle chlorophyll bone detrital join
uptake || ..|. weight rhizome tent matrix
building frame ^..

._ dyke blade flame night graffiti gesture neon
brandish flight **_|.** **|.** for each map filter fold list
railway table ..- || (off || on 0 || 1) |+| **+_+**
repairman rider passenger lone bird **#_# &=^**
grass blade dyke (our hero zero rider ze) || **._**
thatch radio signal static dial clock pulse
receiver ^..

009

..|. database of tools |..| |.| inventory manuscript

..- || shadow cave projection |+

._ grassland reclamation _|. |.| archive

parchment traveler rider repair(*man) blade ..-

|| a solitude of vastness vibrant vertiginous

chlorophyll tinged hum |+| +_+ birds insects

clouds #_# &=^ young queer slender deer || ._ a

glowing noise a unity a collision a confluence ^..

..|. time bends forward leans back |..| |.| circles

like a bird of prey ..- || tensile stem ::: a cellular

conductance |+| +_+ electric neural circuit blood

#_# &=^ windswept dream of flight || ..|. vessel

heart rib & loom ^.. |.| taut sinew vein &_&

._ a knot a sailor _|. |.| a sparse insect count ..- ||

clear windshield |+| +_+ bee by bee sparse matrix

#_# &=^ once wild swarm buzz now || ._ a one

by one flower hover ^.. |.| sparse set pollen heat

&_&

010

..|. no rain again last night |..| |. humidity
swallowed by air ..- || suspension |+| +_+ no
release #_# &=^ dry river dry soil || ..|. bucket
after bucket carried ^.. |. cold well .map(water
=> pasture) &_& || long cold spring &. then +0+
+_+ heat came with bone not water || ||

._ only _|. |. this vessel this gallery these ribs ..-
|| a cage |+| +_+ for birds #_# &=^ an absence
only lonely ||

..|. attention swings ::: an acrobat |..| |. an aerial
artist ..- || trapeze circus |+| +_+ 3-ring digits #_#
&=^ clickable texts || ..|. shining neon ^.. |.
pawn shop blinking &_& || payday loans +0+ +_+
apoplectic news ||| &=^ heavy rain |..|

._ cast projections _|. |. shadows along ..- ||
interior walls |+| +_+ the mind's #_# &=^ ceiling
|| ._ vowels ^.. |. a hollow echo &_& || text +0+
+_+ &. white ||| &=^ space _|.

..|. i mean a |..| |. blank ..- || echo |+| +_+ gravity
#_# &=^ word orbit ||

._ suspended minutes _|. |. blackhole now-ness
..- || careening weeks |+| +_+ eye of the hurricane
#_# &=^ in its stillness || ._ drew in whole ^.. |.
years &_&

011

..|. solitude |..| |.| not silence ..- || every morning
 |+| **+_+** heat rises #_# **&=^ in this || ..|. basin ^..**
 |.| these bones **&_&**

._ polar landscapes **_|. |.| melt ..-** || colonists of
 wind |+| **+_+** dust storms #_# **&=^ settle the globe**
||

..|. no rain |..| |.| longing ..- || thirst |+| **+_+**
 drought #_# **&=^ it was like this || ..|. every**
morning ^..

._ watering can **_|. |.| metallic echo ..-** || pale
 green |+| **+_+** drip #_#

..|. industry! |..| |.| empty hands ..- || vacant skull
 |+|

012

..|. **dusty** |..| |. **dry** ..- || road |+| +_+ repairman
 rider passenger lone bird #_# &=^ **grass blade**
dyke (our hero zero rider ze) || ..|. **parched** ^.. |.
 to deep well &_& || poured +0+ +_+ **vessel** |||
 &=^ **curved heaven** |..| ..|. layers walked ..- |.
 blocks & blocks miles & miles |+| || **grid**
traversals railroad shortcuts faster more #_#
 +_+ **pause nap fuel sandwich coffee shelter**
onward || &=^ restless random walk ^..

.|_ repairman rider passenger lone bird _|. |. **grass**
blade dyke (our hero zero rider ze) ..- || arrived
 on platform wasteland meadow track |+| +_+
 suitcase sandwich coffee thermos #_# &=^ tepid
 brown liquid greasy paper || .|_ **folded map** ^.. |.
 worn matchbook &_& || lucky strike +0+

..|. **illumination recitation number sequence**
radio station |..| |. **urgent message scrawled**
location ..-

.|_ this was the day the time the place _|. |. **last**
chance prairie recitation reclamation ..- || stop
 the gears bend the tide |+| +_+ stitch mend
 reweave restore rewind #_#

013

..|. homeostasis functions script energy
production |..| |.| flows & motion ..- || minerals
 carbon |+| **+_+** produced consumed released #_#
&=^ the mill || ..|. the body ::: a federation ^.. |.|
 web loom constellation **&_&** || temporary
 boundary of skin +0+ **+_+** **stoichiometric**
polyphony ||| &=^ chorus set of strings |..|

._ chemistry & light _|.

..|. reading |..| |.| physical traversal ..- || visceral
 traversal |+| **+_+** repeat repeat loop #_# **&=^ link**
pause dwell leap || ..|. hypertext state machine
^.. |.| railway navigation &_& || photosynthetic bit
 flow +0+ **+_+** **binary twist ||| &=^ one zero**
distance field |..| ..|. microscope telescope ..- |.|
 molecular astronomy |+| || **infinite between #_#**

._ a hare moves _|. **|.| half the distance ..-** ||
 repeat repeat loop |+| **+_+** never stop never loss
 never last measure last chance #_# **&=^ last breath**
 last half last step || **._ density tonal lattice ^.. |.|**
 2d telegraph **&_&** || duration plot staccato rhythm
 pattern +0+ **+_+** stochastic cyclone cluster noise
 chance score ||| **&=^ sonic braille morse code**
stream sound _|. **._ alphabet word phrase**
 sentence time paper scroll **..- |.| lattice graph**
 network web tree |+| || link join conjunction

semicolon latch hinge #_# +_+ doorway portal
 pivot junction || &=^ conjoin jump ^.. .|_ place
 or point of union &_& |.| two or more railway
 lines +0+ || junction meet or cross |||

014

..|. data modeling ecosystem transcription ||. |.|
 contour core motion ..- || stripped down |+| +_+
 essential form #_# &=^ arc distilled || ..|.
 abstraction ^.. |.| line drawn &_& || color form
 shape +0+ +_+ context seed dynamics ||| &=^
 phase plane essence ||. |.| naked mirror silhouette
 ..- |.| skeletal moving gears |+|

.|_ translation filter _|. |.| transformation ..- ||
 map bait lure tackle |+| +_+ spinning wheel #_#
 &=^ rapunzel wizard magic fish || .|_ chutes &
 ladders ^.. |.| connection conjunction sentence
 &_& || necklace +0+ +_+ purl one ||| &=^ knit
 one _|. .|_ knot one ..- |.| sticky spider silk |+| ||
 relations table entry #_# +_+ time stamp seal or
 wax ||

..|. transact system ||. |.| query language ..- ||
 row by row relation |+| +_+ containment category
 rope bind #_# &=^ join ||

015

..|. fact ::: hyperspace |..| |.| a cube an axe ..- ||
 enter retrieve deliver swift |+| **+_+** data knowledge
 reconstruct #_# **&=^ reach link traverse || ..|.**
node to node abandon ^..

._|_ latch hinge _|. |.| door subway turnstile
entrance arrow ..- || knot connection not reversal
 |+| **+_+** subject verb object stop #_#

..|. food web vertex |..| |.| consume / uptake / feed
/ decay ..- || pool to pool transmission |+| **+_+**
 mycorrhiza fungus root #_# **&=^ stoichiometric**
filter map ||

._|_ collision confluence fusion _|. |.| dissonant
echo ripple ..- || fission waves |+| **+_+** node to
 node connection #_# **&=^** reified to predicate || **._|_**
a measurement ^.. |.| unveiled revealed made
plain &_&

016

..|. lexicon of relations |..| |.| linguistics language

..- || shifting drawer |+| **+_+** predicate proclaim

declare affirm assert **#_# &=^ text stream**

interface || ..|. pipeline filter map fold ^.. |.|

density of links **&_& ||** connectance metrics +0+

+_+ flows & form ||| &=^ web network branch

tree graph |..| ..|. extensible modular composable

construction **..- |.|** shape shifting flow emergence

change |+|

._|_ infinite series _|. |.| calculus of motion

calculus of change ..- || physics of angles angels

|+| **+_+** sound waves light **#_# &=^** inflection

reflection **|| ._|_ convergence to fixed point orbit**

loop or cycle ^.. |.| convergence to zero **&_& ||**

absence silent slope abyss +0+ **+_+** shape shifting

flow emergence change **|||**

..|. associative trail path spline index jump |..| |.|

graph traversal heat diffusion fluid flow ..- ||

night mail railway saturn sky |+| **+_+** shape

shifting flow emergence change **#_#**

._|_ semantic nets systems frames rules _|. |.|

automated reasoning engines ..- || ontologies

schemas |+| **+_+** inference machines **#_# &=^**

classifiers theorem provers **|| ._|_ maps ^..**

017

**..|. us / them / ze / I |..| |.| the body plural the
collection the ecology of I ..- || constellation tonal
set |+| +_+ commutative diagram #_# &=^ vector
pillars basis set || ..|. fire bison ^.. |.| microfiche
&_& || memex landscape archive +0+**

**._ moth flame fuel _|. |.| what angel whose wings
which bird ..- || tightrope perilous torch gas flight
|+| +_+ filament neon halogen light #_# &=^ solar
spectra halo || ._ semisynthetic polychromatic
light ^.. |.| harvest net gap spark &_& || every
angel every bird every fire +0+ +_+ every light |||**

018

**..|. volcanic eruptions colossal explosive summer
of night |..| |. cloud of ash eternal winter sky ..-
|| sublime vastness |+| +_+ clap of thunder #_#
&=^ dark sky & rim of light ||**

._ die cast astronomies astrologers oracles neural
net forecast _|. |. **summary synthesis archive
copy ..-** || deductions cloudy inference pale sky
dusty glass |+| +_+ cloud forest mist #_#

**..|. chlorophyll inception resinous extension |..|
|. oxygen production carbon-bound reduction
..-** || transfer bury sequesterate |+| +_+ atmospheric
storage #_# &=^ **soil archive biomass || ..|. sky
writes to earth ^.. |. clouds turn to grass &_& ||
glass leaf snail fish +0+ +_+ bone & soil & log |||**

._ linear regression _|. |. **inversion inflection ..-
|| rollercoaster shift |+| +_+ velocity force change
#_# &=^ approach zero || ._ axis of gone the axe
^..**

..|. dust bowl prairie loss |..|

019

..|. handbook of codes (1938 ::: 4th edition) |..| |.|
corner ledger entry ..- || creased marked stained
 |+| **+_+ unsteady hand page 48 #_# &=^ pointer**
to drawer 89 || ..|. swiftly culled collection ^.. |.|
 quickly scrawled notation **&_& ||** hike knapsack
 specimen +0+ **+_+ slender tender ||| &=^ sun**
salutation |..| ..|. pale & rising leaves ..- |.| slow
 tango |+| || **archer & the doe #_# +_+ deftly spun**
golden silk || &=^ ecstatic synthesis ^.. ..|. snapshot &_& |.|
drawing sky to soil +0+ || a rhizomatic broadcast ||| +_+ joyful ode electric
 pulse |..|

.|_ that day the hiker struck & gathered _|. |.|
stamped & scrawled ..- || a description the day |+|

..|. flash drive |..| |.| cellular recollection ..- ||
 slowly fading |+| **+_+ casting of a day #_# &=^**
plant companion || ..|. pulsing network ^.. |.|
 etched on vinyl **&_& ||** voice wind chorus
 meadow chord +0+ **+_+ a sound restated now |||**
&=^ perhaps could permeate the ether |..|

020

..|. a cast back cellular recording |..| |..| etched on
vinyl record number 43 ..- || still intact the voice
 & windy chordal chorus meadow |+| **+_+** vinyl
 pulsing network **#_# &=^ perhaps if sent**
through radio wave & echo || ..|. sound
reclaimed restored restated ^.. |..| ghostly sonic
 vapor could elicit in its hearing **&_& ||** a tender
 recitation (re)creation reclamation restoration
 reformation +0+ **+_+ redemptive grass**
reenactment transmigration ||| &=^ root-to-root
transmission |..| |..|. & a material transfer flux &
 flow equation **..- |..|** formula calculation run
 through |+| || **wrung through monte carlo**
iterations #_# +_+ stochastic rinse residue
distillations oscillations || &=^ chord
 progressions ::: rhythmic titrations ^.. **..|. an ideal**
 polyphony this vital web **&_& |..| (re)creation**
would be difficult & risky +0+

.|_ repairman rider passenger lone bird **_|. |..| grass**
blade dyke (our hero zero rider ze) ..- ||
 reviewed the course the notes the goal |+| **+_+**
 clock cycle nutrient cycling handbook codes **#_#**
&=^ algorithms generative recipes diagrams flow
 probabilities coupled difference equations score ||
 .|_ **recorder of all things pigeon stone database**
journal records catalogue ^.. |..| ordered voices
 trophic chain biome web ::: a cycle **&_& ||** the

goal to roll back first conditions +0+ +_+ frames
 loom gears tangled strands ||| &=^ **particles iron**
flint filing receivers long echo curvatures orbits
 |. | compass paths elliptical earth lines sky
 threads hertzian waves ..- |.| maxwell
 electromagnetic radiation spark gap transmission
 signal smoke |+| || moth-wing chaos cyclone
 silence thermal currents prairie noise #_# +_+
stochastic resilience robust fractionated
adaptable evolving noise || &=^ particles beats
 rhythms frequencies dissonant resplendent
 symphony ^.. |_ verdant song radar language
 rubbed wings &_& |.| quickening pulse through
 stalk & reed +0+

021

..|. downward glance creased map old building
vacant transmission |..| |.| radio station cement
wire wood vinyl recordings ..- || grass forgotten
 language roles enactment script score reading glass
 |+| **+_+** stone paper vinyl microfiche transmission
 reception receiver sensitive **#_# &=^ convergent**
frequencies overlayment sine wave addition
sums sound score recording || ..|. many
languages multiple dimensions C N P
frequencies ^.. |.| some below the threshold of
 hearing **&_& ||** others short fast high all at once
 +0+ **+_+** **different scales different velocities**
different currencies materials markets of
exchange ||| &=^ it would be hard to put this
back together information lost sent number
station |..| ..|. codes plurality of transmissions
 ghost radio **..- |.|** put the sound back put back
 transects seasonal constellations geometries
 probabilities |+| **|| catalysts circulations taut**
dependencies resilience arithmetics liminal
clocks #_# +_+ the eco-polyphonics of all living
systems ||

022

..|. faded animations faded colors green yellow
brown => gray |..| |.| plant specimens stamped
time-stamped the walker rider passenger ..- ||
 collector observer marks down weather rain heat
 cold dry piano rolls |+| **+_+ score movement slows**
 to snapshots **#_# &=^ pinning clothes recording**
transects counts || ..|. footnotes footnotes
footnotes ^.. |.| sets & grass to find the trophic
 structure **&_& || problem of scale reference static**
 object product state +0+ **+_+ broken rhythm**
boxed number tables ||| &=^ frozen vertex chalk
body outline fixed |..|

.|_ time step nutrient cycle handbook of codes _|. |.|
algorithm recipe diagram flow ..- || now back
 but then not now but perhaps |+| **+_+ maybe just ||**
 nothing **#_# &=^ rectify & join ||**

023

..|. layers of heaven |..| |.| cardinalities ..- ||
 threshold probabilities |+| **+_+** levels of possible
 quantum **#_# &=^ paths || ..|. knots ^.. |.|**
 countable **&_&**

._|_ a lattice lash tied taut _|.

..|. between zero & one |..| |.| infinity ..- ||
 countable rational salt & pepper mesh |+| **+_+** or
 an uncountable irrational sea **#_# &=^ unbroken**
surface || ..|. lifetime & extinction ^..

._|_ angels birds grassland constellation _|.

..|. seemingly infinite => countable |..| |.| 2 (not
many) ..- || 1 (one => zero) |+| +_+ abstraction
 reduction **#_# &=^ trace contour || ..|. subtraction ^.. |.|**
 collapse **&_& || absence +0+ +_+ zero ||| &=^ ghosts |..|**

024

..|. industry! |..| |.| gears machines efficiency ..- ||
 plow & yoke |+| **+_+** breaking ground **#_# &=^ carbon cycling || ..|. bound flow ^.. |.|**
 tensile vectors **&_& || release capture +0+ +_+ web cycle graph system lattice ||| &=^ plumes & spills |..|**

025

..|. transformation |..| |.| noise ..-

._ voices tubes _|. |.| **moths jar ..-** || feedback
electrical line static |+| +_+ harmonic ghosts #_#
&=^ resonating strings || ._ **sympathetic rooms**
^.. |.| wood wire reed sky &_&

..|. composer ink transmission |..| |.| naked
contour ..- || wood pitch reed membrane breath
line |+| +_+ invisible waves harmonic ladder #_#
&=^ **wire resonance strings chamber || ..|.**
hidden fabric ^.. |.| bagpipe &_& || meadow
score +0+

026

..|. on the afternoon of the 8th day |..| |.|
repairman rider passenger lone bird ..- || grass
blade dyke (our hero zero rider ze) |+| +_+ only a
bird not a god #_# &=^ **only an old sewing**
machine ||

._ treadle & thread _|. |.| **stitch back repair**
repair ..- || lace prairie weave roots |+| +_+ pump
light well bind #_# &=^ animate turn breathe || ._
circulate & mend ^..

027

..|. stitch |..| |. carbon cycle ..- || back |+| **+_+**
 intact #_# **&=^ structure function || ..|. sink &**
source ^.. |. sink & source &_&

._ theory of null values _|. |. problem of null
values ..- || hollow sound |+| **+_+** sparse matrix
 #_# **&=^ initial conditions external || ._**
parameters landscape weather ^.. |. bee flower
pollen lit pollen wings &_&

..|. parts of speech sets thought |..| |. categories
cages ..- || language archive (memory tables data
 pollen noise) |+| **+_+** quest voyage counting #_#
&=^ physics web grassland sea net trophic ties
traveler || ..|. gears ^.. |. repair(*) rider lone bird
&_& || grass blade dyke (our hero zero rider ze)
+0+ +_+ illuminate restore resurrect reweave
rebreath || &=^ trophic chain ecosystem
length & breadth harmonic series |..| ..|. swings
& orbits ..- |. collapse & chaos |+| || dynamic
state constant flux #_# +_+ climate nutrient
cycling community structures evolution ||

._ no time now time soon time _|.

028

..|. how is this night different from all other
nights? |..| |.| short trophic chains ..- || webs
 constrained |+| +_+ nutrient enrichment enigma
 #_# &=^ **nutrient paradox nutrient cage bind**
limit || ..|. stable state dream fragile balance ^..
 |.| weather heat rain flood fire &_& || orbit cycle
 chaos +0+ +_+ **hydrogen oxygen ::: so hard to**
fuse ||| &=^ weld spark twist |..| ..|. ecosystem
 metrics gears & struts ..- |.| evolution adaptation
 |+| || **form(s) of change #_#**

029

..|. why is this night this day this hour this
moment different from all others? |..| |.| stable
state equilibrium ..- || mirage |+| +_+ set of gears
& struts #_# &=^ form change adaptations || ..|.
choreography mathematics theorems ^.. |.|
 natural law physics stars **&_& || tonal signature**
 nutrient profile +0+ **+_+ language alphabets**
symbols ||| &=^ drawing cave drawing sky
drawing skull |..| ..|. flux flow rise ..- |.| difficult
 to capture |+| || **carbon currency #_# +_+**
mineral constraint || &=^ trophic level ^.. ..|.
 efficiency **&_& |.| short ladder +0+ || polyphony**
topology ||| +_+ C N P basis vectors |..| &=^
 weather ..- **..|. tides light plow |+| |.| poison**
shattered #_# || maps fractured || +_+ space faster
 ^.. **&=^ time spinning &_& ..|. gears +0+**

030

..|. tuning discontinuity fragmentation |..| |.|
multiplicity assemblage blur ..- || distance
metrics near / far this-ness |+| **+_+ frequency**
instruments theory #_# **&=^ narrow limited**
constrained || ..|. drawer paper file grass
specimen stalk leaf root ^.. |.| instrument network
transmission system **&_& ||** sensitive antenna
chlorophyll swarm +0+ **+_+ body axes mapped**
static system structure ||| &=^ food chain length
& flow |..|

031

..|. on that day that hour researcher |..| |.| lab-coat gatherer archive net bird memory -- || had the bird sing one last song |+| **+_+** (carefully recorded) **#_# &=^ after singing breathing trembling casting tonal net || ..|. once last sweetly ^.. |.| tender night remembered dawn &_& ||** the bird the singer was then collected +0+ **+_+ marked with capture date time label stamp ||| &=^ vinyl voice specimen body bones feather cell lock drawer |..| ..|. more precious for its absence last glimpse species culture --**

._| slender threshold beat => tone (frequency wave) _|. |.| particle rhythm synthesis -- || sea matter light |+| **+_+** redfield 1958 strange ratio **#_# &=^ woven fabric green & || ._ flight ^.. |.| the bird sang one last song &_& ||** bird singer song +0+ **+_+** dated stamped labeled **||| &=^ vinyl voice specimen body bones feather _|. ._ lock drawer archive ivy building room --**

032

**..|. the passenger left & wandered to the river
edge |..| |.| tall grass abandoned plot slope
tangled bank ..- || electric passenger |+| +_+
feathers against the ripe pale blades & reedy fishers
#_# &=^ spark filament poetry orchestration
animation || ..|. memory storage bank ^..**

._ after 8 days on the 8th day at 3:48 _|. |.| the
passenger left the building & wandered ..- ||
towards river edge past tall grasses abandoned
plots |+| +_+ down sloping entangled bank worn
burdened electric passenger #_# &=^ lay down
feathers against the ripening pale blades & watched
|| ._ the reedy fishers bent stalks headed
trousers folded ^.. |.| pail in hand to shore
chlorophyll surging through limbs &_& || pulsing
turning in the yellow light +0+ +_+ late summer
day dusty strands of light ||| &=^ taut against the
very ether of air & day _|. ._ particles stretched
into waves cast from far away ..- |.| circle orb fire
dusty filaments tied against |+| || strong limbs
drawn nets from sky they pulled #_# +_+ muscled
down & in these nets these baskets they || &=^
(the wiry reaching stalks) gathered invisible
dinosaurs ^.. ._ their bones now atmospheric
ghosts &_& |.| of all released dead matter sources
of their gathering +0+ || a hallelujah of
photosynthetic abandon ||| +_+ a transference a

miracle accumulation a sink a ┘. &=[^] grabbing &
bending & forcing deep underground ..- ┘_ a
conversion a reclamation a redemption |+| ┘ ┘ a
deep cellar window of light #_#

033

..|. electricity insight action |..| |.| poet singer
cantor coder ..- || rhythm rhyme repetition |+| +_+
 invoke evoke circle #_# &=^ **paper poetry**
storage machine (memory printed symbols
space) || ..|. spoken textile poet singer living
animation ^.. |.| electric insight action text
 encoded incantation &_& || rhythm rhyme
 recitation circle invocation +0+ +_+ **tape**
magnetic pitch sound frequency modulation |||
 &=^ **transcription translation voyage |..| ..|. a**
 a river a boatman a coin an oar ..- |.| a knapsack a
 shortwave radio |+| || **receiver transmitter signal**
 #_# +_+ **voice frequency on / off ||**

.|_ pulse antenna alphabetic _|. |.| **graph glyph**
string ..- || linear spline space |+| +_+ sequence
 pages spine spline #_# &=^ approximation map
 one route || .|_ **one journey electric geo ^.. |.|**
 route road reenactment context &_& || devoid
 absent world generating physical +0+ +_+
 attention listening seeing ||| &=^ **gaze cross**
sensory skull _|. .|_ skeletal memory echo
 machine ..- |.| pulse current blood |+| || sinew vinyl
 gramophone => radio #_# +_+ **moment**
(re)creation past time || &=^ modulation
 frequency ^.. .|_ (un)synchronize the clocks &_&

..|. architecture of flows |..| |.| chain web sparse

or dense ..- || multi routed multi threaded |+| +_+
brilliance resilience resplendent #_# &=^

abundance complexity || ..|. **iron glass & noise**
^.. |.| weft & warp &_&

._ 4 string landscape _|. |.| **infinite between** ..- ||
bendable tonality |+| +_+ fretless beast #_# &=^
gravitational pulls || ._| **orbit & deviation** ^.. |.|
delay / echo tape chance &_& || degrees of
freedom +0+ +_+ boundedness taut net ||| &=^ **no**
map palette arcs _|. ._| across found sound canvas
..- |.| spill pour grid |+|

..|. night crow no time graffiti angel |..| |.| **icarus**
ghost bird ..- || radio pluto |+| +_+ washington
avenue #_# &=^ **bridge subway warehouse** || ..|. **symphony of metal** ^.. |.| concrete & glass &_&
|| blades grass +0+ +_+ **blades accordion** ||| &=^
sheet music |..| ..|. sheet metal ..-

._ watches for sale _|. |.| **circus hawker** ..- ||
projected image alley |+| +_+ film alley lamp #_#
&=^ shadow night ink || ._| **pool found object** ^..
|.| theater company sound &_& || foundry sound
factory +0+ +_+ new polyphony alienation |||
&=^ **intersections junctions** _|. ._| friction
resolution ..- |.| chords ropes sails |+|

..|. geographic information systems layers maps
|..| |.| **routes destinations** ..- || vectors fields pixel
web join caught number cells facts |+| +_+ dense

.._||_.. _ _ .. || ..

. <|.|> .

.._|| .. _ .. || ..

matrix #_# &=^ sparse sky ||

034

**..|. city of sleep city of masks city of subway &
turnstile |..| |.| too close stand back headlights ..-
|| tracks nyx boat coin chaos birds |+| +_+ stain
permeate imprint drench spill #_# &=^ illuminate
transcribe prime stretch nail ||**

._ theater of the very small theater of passions
theater of stairwells _|. |.| theater of windows of
doors of bus stop shelter of boat of wind of oar
& effort ..- || railway roadway highway meadow
|+| +_+ this place this platform this vacant #_#
&=^ iowa small tool shed top hill grave field ||

**..|. field notes double reed hollow log |..| |.|
breaking hard ground ..- ||** thatch root millennia
ruptured disrupted |+| +_+ buffalo fire & the fire
tenders #_# &=^ lace boots & => functions of
lists reduce / fold filter map || **..|. irretrievable
calculation distillation contours ^.. |.| physics of
oars physics of rope & gears &_& || physics of
taut independence bound inter dependence +0+
+_+ cycling time flow graph calculus of change
& motion ||| &=^ tangents & intersections flux
weather elements wind |..| ..|. there exists an x a y
a maybe just nothing ..- |.| suppose this |+| || **not
silence exactly #_#****

._ particles of speech particles of sound particles

of exchange _|. |.| molecular transfer diagrams
 schema ontologies syntax relations ..- ||
 punctuations blank space lines unfolding hollow
 tunnel echo static dial |+| +_+ encode translate
 transform (re)cover uncover reverse #_# &=^ verb
 => noun => past tense || .|_ neural net language
drip radio wave resilience ^.. |.| co2 => biomass
 => soil &_& || the deep & tangled dark sea
 horizon wind sail blades of grass +0+ +_+ sky to
 earth to text texture textile |||

035

..|. physical laws governing theorems systems
form & function |..| |.| n-body species
interaction multi lingual multi scale
stoichiometric ..- || molecular spectral choral
networks |+| +_+ multiple frame rates multiple
scales projections synchronized moments colliding
#_# &=^ separating departures arrivals
hydrology of energy & material & landscape &
time (clocks) || ..|. meeting at a time at a table in
a cafe in a town on a specific day ^.. |.| a moment
specific coordinates &_& || exchange of goods
voyage of goods transference encounter +0+ +_+
chance the niche habitat fractal niche ||| &=^
harmonic series resonating sympathetic
vibrating stable tonal isotopic |..| |..|. ladders
chutes pipes circuits ..- |.| currencies carbon
nitrogen phosphorous rain |+| || ladders pipes
circuits energetic exchange system currency
commerce #_# +_+ transformation conversion
manufacture of material information
transmitted || &=^ synthesis of data production
efficiency nutrient use economy ^.. ..|. intelligence
craft gears assembly pipelines factories blueprint
&_& |.| conservation of energy expenditure of
energy conflagration carbon +0+ || coal bones
oil organics drilled excavated broken harnessed
released |||

.|_ goal ::: a net for capture seismograph of wind
 knowledge graphs monads _|. |.| cybernetics
books boat numerical recipes algorithms
formulas dictionaries ..- || structures grammar
 syntax dynamics choreographies |+| +_+
 configurations changes chord progressions #_#
 &=^ harmonic sets heterotrophs producers fungal
 nutrient pools || .|_ **weather self-organizing**
clockworks ^.. |.| a computing machine gears the
 mail a cloth &_& || checkerboard abacus a
 network of relations +0+ +_+ attracting orbit
 counting mapping computing ||| &=^ **navigation a**
compass the ocean _|. .|_ a sailor ropes & tackle
 wind & helm ..-

036

**..|. it was like this every morning |..| |..| every
 night ..- || every afternoon |+| +_+ every hour
 every day every particle every sweep #_# &=^ of
 hand every nuclear click digital + & || ..|.
 watches for sale for locomotion ^.. |..| for steam
 oil coal crash &_&**

._ knapsack traveler nomad grazer quest pollinator
 pathways routes _|. |..| **corridors migrations**
disrupted interrupted poisoned clock stop last
page ..- || extinction countable few zero gone |+|
 +_+ fragmentation no chute no ladder no path no
 way through over under #_# &=^ bridge collapsed
 railway fallen circuit broken echo dulled || ._ **tape**
erased ^.. |..| invisible map red-sky morning red
 mourning red warning &_& || self assembly +0+
 +_+ the art of ||| &=^ **steering listening _|. ._**
 reception feedback ..- |..| fluidity response |+| ||
 count back count back #_# +_+ **systems cognition**
circuits learning emergence flux flow || &=^
 code embedded deep in cell in memory in twisted
 strands an alphabet a code ^..

037

..|. memory motel memory text textile knots |..|
|.| memory prayer memory fair memory
microscope ..- || counted collected collated stored
 |+| **+_+** clouds the cloud circuits wireless **#_#**
&=^ electromagnetic flux & flow electron tubes
& spark knots & tables columns & graphs || ..|.
syntax vowels & minerals rhythm transactions
exchange ^.. |.| elliptical pathways **&_& ||** orbits
 sea of memory navigation colliding waves +0+
+_+ across along coordinates path road ||| &=^
vast space rope |..|

.|_ re-listen record past voice wind grass bird **_|. |.|**
a re enactment an inhabitation embeddedness ..-
 || past landscapes topologies geologies cellular
 matrix |+| **+_+** diorama of exquisite detail alive
 stilled waiting silent **#_# &=^** animate breathe
 illuminate turn the rusty gears wind the clock **|| .|_**
alternating currents push zero pull rise level fall
accelerate ^.. |.| pivot turn tangents of rest
 inflections **&_& ||** oars a boat receiver
 transmission +0+ **+_+** copper wire & air release
 the signal like icarus to sky **||| &=^ earth surface**
invisible tracks _|. .|_ 1906 triode tube (last voice)
..- |.| sensitive receiver ::: electromagnetic waves
 |+| || ocean of chatter information signals beats
 sound **#_# +_+ modulate frequencies cathode**
ray relay amplify || &=^ resonate signal

expansion dial tune voice ^.. .|_ spider silk taut
 web spinning affixed to slender stalk &_& |.| root
 stem leaves flowerhead +0+ || **culm (blade &
 sheath) inflorescent splendor** |||

038

..|. honored listeners present & absent today
(yesterday) |..| |.| honored receivers future
reception ..- || audion circuit |+| +_+ grid-leak
detector diode || grid => cathode #_# &=^
regenerative form || ..|. telephony radio talking
newspaper ^.. |.| text => speech => signals =>
waves => recording => radiation => distillation
&_& || electrons through a vacuum wireless body-
less +0+ +_+ space without a filament without a
spark without a fire ||| &=^ morse code =>
speech => music => flight |..| ..|. thermionic
emission liberation ..- |.| electrode release electron
temperature (heat => leap) |+| || thermal energy
=> charge carrier material work function
catapult trapeze #_# +_+ electromagnetic waves
through a gap => light || &=^ electromagnetic
fields are a filament not a plow ^.. ..|. radio
frequency identification of goods &_& |.|
markers of heat of movement +0+

.|_ supermarket radio _|. |.| **carbon isotope**
detection trophic code ..- || visceral magnetic
gravity pulse |+| +_+ arterial electrical currents
light #_# &=^ static noise || .|_ the message ^.. |.|
metal surface heat &_& || thermoelastic bend &
flow +0+ +_+ ions eons millennia ||| &=^ vinyl
disk _|. .|_ labeled iron shelf ..- |.| dustlit volume
|+| || dancehall volume #_# +_+ phonograph

telegraph || &=^ braille ^.. .|_ spinner &_& |.
feedback +0+

..|. microscope observatory tiny vial |.. |. **tiny**
xylophone tiny ribcage ..-

.|_ tube => transistor cathode ray tube _|. |. **raster**
digital pixel knowing ..- || language drawing
vector contour lost |+|

..|. cloud of pixels probabilities clump densities
likelihood noise |.. |. **boltzmann entropy**
analogue encoded signal computation ..- || digit
swarm translation |+|

.|_ literature science novel science poetry science
_|. |. **narrative past text pollination** ..- || picture
science syntax metaphor diagram |+| +_+ divine
static steady state #_# &=^ mythic science || .|_
evolving ever changeful circle science ^.. |. taut
self-organizing orbit science &_& || geometric
atmospheric light nitrogen +0+ +_+ nutrient
profile adaptation ||| &=^ **mineral light weather**
water _|. .|_ vial drop science ..- |. torn curtain
broken window chaos science |+|

039

..|. skull telescope |..| |.| recorded playback
frame ..- || incomplete phonetics |+| +_+ extinct
 past taxon gap #_# &=^ **cipher thrivance**
teeming whole || ..|. an awkward re assemblance
 ^.. |.| blank missing vertex node &_& || absent
 click track metrics scale & score +0+

._ archive junk drawer weather babel chaos din _|. |.| **vinyl recordings musical notations** ..- ||
 frequencies harmonics rhythm velocities |+| +_+
 charges changes coupled difference equations #_#
 &=^ probabilistic time series snapshots samples
 pressings indices || ._ **the symbols were known**
but the phonetics were lost ^.. |.| the clocks were
 out of phase &_& || pulse & counting skew +0+

..|. breathe animate spark |..| |.| pollination
proliferation mineralization ..- || green pigment
 chlorophyll carbon water weaving milling spinning
 |+| +_+ oxygen energy light #_# &=^ **moment**
ratio cello ratio orchestra ratio choir ratio
grassland ratio || ..|. wetland ratio ocean
redfield ratio broken stick vibrating string ^.. |.|
 eigenvalues slanted towards instability collisional
 cycling &_& || lack of continuance certain chaos
 +0+ +_+ **queer nonlinear signal skewed ||| &=^**
bent |..|

.|_ incompatible not computable indecipherable
 inscrutable |_|. |.| interval of change flux charge
exchange transition evolution dynamics ..- ||
 flow bifurcations unbound untied |+| +_+ sudden
 cloud break asymptotic stable stillness center #_#
 &=^ an orbit a continuance a vector field
 exuberance || |_| **neon vibration computation**
geologic carbon spilled across the sea ^.. |.| deep
 beneath the surface roots shredded ancient bones
 past sink store archive lock &_& || zero hero
 carbon sink pivot tangent steady drop +0+

..|. cloud upside down root sequestration |.| |.|
stop hold bar block this avalanche of loss ..- ||
 skeleton machine skull writing ceiling wailing
 keening siren howl feedback broken |+| +_+ wire
 cricket friction klezmer waltz reed membrane wind
 bone mallet hollow stem #_# &=^ **a regiment of**
meadow || ..|. **circus tent swirling dendrite**
dervish dance cybernetic helm storm mast mass
 ^.. |.| sunless subway depth &_&

.|_ horsepower wind dams & mill harness velocity
 reactant |_|. |.| **nutrient use production efficiency**
industry! rhizome microbes bacteria ..- || soil
 rushes moss wing drawers files books tape press
 type ink compression & encodings |+| +_+ digital
 transcriptions vinyl pressings drawings equations
 journals samples collections bodies #_# &=^
 filaments antenna wing skull vertebrae jaw hand

stalk leaf flower pollen || .|_ **route cellular trace**
remnants residue ^.. |.| film plaster fossil cave
ochre & charcoal forms contours the hunt the
relation the web **&_&** || pins papers stamp data
survey study researcher walking catching pulling
recording retrieving +0+ **+_+** net knapsack bullet
glove transect count map compare average mean
value ||| **&=^ variation noise signal caught**
taxonomy of system observation of change _|. |_
record function deduction of web ..-

040

..|. fires wind walls cross the plains |..| |..|
siberian methane craters epoch ice mass glaciers
melted ..- || carbon water torrents spew |+| +_+
 glaciers plastic castles plastic wasteland acid death
 zone #_# &=^ **tsunami mass breadth depth**
force physics || ..|. pandemic fascist prisons
state-blue murder ^.. |..| homeless ghosts plywood
 window &_& || cafe stalled railways vacant
 buslines +0+ +_+ **emergency crisis full wards**
breathless death |||

._|_ hunger walks through newsprint clickbait _|. |..|
advertisement-laced bad news ..- || devastating
 news unprecedented news every-day cataclysmic
 criminal leader news |+| +_+ felon leaders moloch
 leaders consuming leaders devouring leaders
 marrow sucking leaders #_# &=^ maskless
 faithless villains bearing flags & spewing venom ||

..|. & citizen knapsack bandaged wanderers |..|
|..| greasy coughing last-legs diner masked ghosts
 ..-

041

..|. why is this day unlike any other day? |..| |.|
this moment this view this inflection bending
curve like no other ..- || or why is this day like an
 other once upon a time dinosaur last-day meteorite
 explosion |+| **+_-+** dusty smoke-filled orange sky
 #_#

._ start again empty chalkboard **_|. |.| wound tape**
deck of cards ..- || blank recording unpressed
 vinyl unengraved metal open cave |+| **+_-+** an
 equation computation restoration symphony #_#
 &=^ incantation animation last stop grassland
 texaco station || **._ origin of species perfect ratio**
entanglement bank fragile web steady state ^..
|.| forever abundant resplendent frictionless eternal
 energy oxygen machine **&_&**

..|. repairman rider passenger hero (ze)ro lone
bird |..| |.| the blade the dyke the bird (our hero
zero rider ze) ..- || arrived on platform wasteland
 meadow track |+| **+_-+** worn suitcase sandwich
 coffee thermos #_# &=^ **tepid brown liquid**
greasy paper || ..|. creased map ^.. |.| compass
 light **&_&** || lucky strike +0+