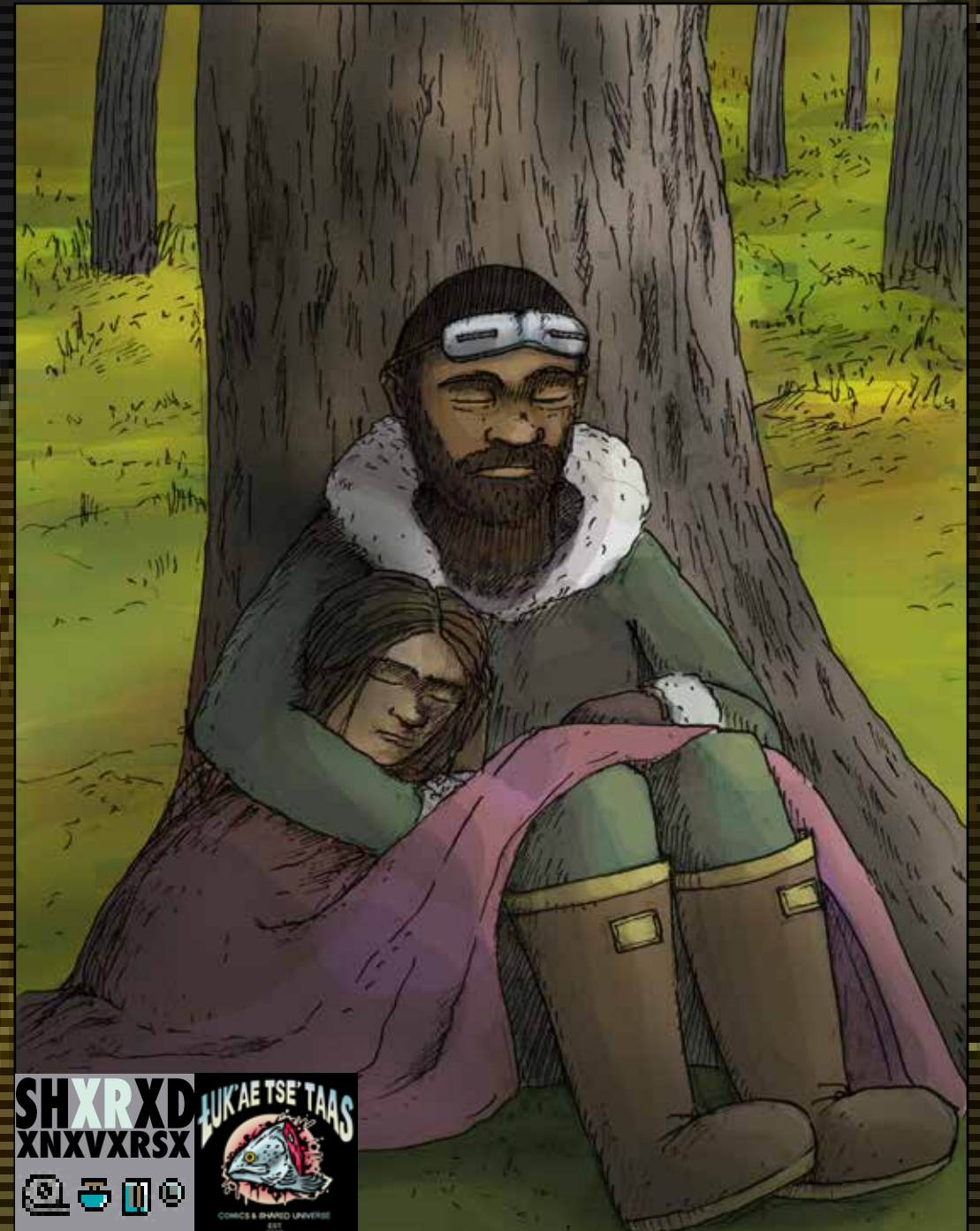


ŁUK'AE TSE' TAAS COMICS & SHARED UNIVERSE

#Information Theory, #Ancient Simulation,  
and 10% more Cryopunks!

# NATHAN SHAFER WINTERMOOT

BOOK NINE | SIDE A | SHXNNXN XNTRXPX XND XNTHRXMX



SHXRXD  
XNXVXRSX



WINTERMOOT BOOK NINE | SIDE A  
SHANNON ENTROPY AND ANTHROME

ART, STORY, AND AUGMENTED REALITY BY NATHAN SHAFER

EXCERPTS FROM "SUZANNE" WRITTEN BY LEONARD COHEN, 1966



**ANTHROME:**  
OTHER NAMES: CHRISTOPHER GUTHRIE  
POWER ORIGINS: ANTHROVERSE

AN AFRICAN-AMERICAN/CUPIK TRANS MAN BORN IN CHEVAK. GIFTED POWERS TO CONTROL ANYTHING HUMAN OR HUMAN MADE BY THE ORIGINAL KNK QUARTERMASTER OF FFF8E7. HE WANTS TO MARRY ARÊTE.



**K'CHASHGA:**  
OTHER NAMES: UNKNOWN  
POWER ORIGINS: MUCOVERSE, MOJVERSE

A STRANGE GIRL WHO APPEARED IN THE FFF8E7 REALITY SEVERAL DAYS AGO. SHE SPEAKS A FEW BROKEN WORDS IN DENA'INA AND AHTNA. SHE HAS POWERS CONNECTED TO BIOLOGICAL SLIMES AT THE QUANTUM LEVEL.



**SHANNON ENTROPY:**  
OTHER NAMES: SHAVILA SHANNON GUTHRIE  
POWER ORIGINS: NEGENTROVERSE

THE BIOLOGICAL DAUGHTER OF ARÊTE AND ANTHROME, WHO DRAWS POWERS FROM THE NEGENTROVERSE, AN OBSERVED FUNCTION OF LIFE IN THE UNIVERSE. SHE CAN BRING BIOLOGICAL ORDER TO ANY THING, NETWORK OR SYSTEM.



**ARÊTE:**  
OTHER NAMES: MELISSA CH'VALTEH SULLIVAN  
POWER ORIGINS: CRYOVERSE

A DENA'INA/AHTNA WOMAN BORN IN DENALI CITY. STUDIED ANTHROPOLOGY AND HAD HER INNATE ICE POWERS ENHANCED BY ŁI DNAY (GLACIER PEOPLE). SHE IS ON THE AUTISM SPECTRUM AND IN LOVE WITH ANTHROME.



**NUNATAK:**  
OTHER NAMES: REBECCA GRAHAM, BECKY  
POWER ORIGINS: CRYOVERSE

A TLINGIT/YUP'IK WOMAN WITH CRYOVERSE POWERS, MOTHER OF TUYANAUT. BECKY AND HER CHILDHOOD PAL, HANA, DISCOVERED THEY HAD POWERS WHEN THEIR TEACHER, MS. VIDALIA, SHOWED THEM HOW TO TRAVEL USING ROWANBERRIES NEAR THEIR HOUSE. THEY FORMED THE SLACK TIDE DUO AND HAVE BEEN BATTLING SUPERNATURAL FORCES IN ALASKA FOR ALMOST TEN YEARS, MOSTLY WHILE THEY WERE IN HIGH SCHOOL.



**MAGNETOTAIL:**  
OTHER NAMES: HANA WATANABE  
POWER ORIGINS: PLASMAVERSE

A JAPANESE-AMERICAN WOMAN WITH PLASMAVERSE POWERS, MOTHER OF STEVE-PUNK. HANA AND HER CHILDHOOD PAL, BECKY, DISCOVERED THEY HAD POWERS WHEN THEIR TEACHER, MS. VIDALIA, SHOWED THEM HOW TO TRAVEL USING ROWANBERRIES NEAR THEIR HOUSE. THEY FORMED THE SLACK TIDE DUO AND HAVE BEEN BATTLING SUPERNATURAL FORCES IN ALASKA FOR ALMOST TEN YEARS, MOSTLY WHILE THEY WERE IN HIGH SCHOOL.

# WINTERMOOT

## DECONSTRUCTING WINTERMOOT NINE: JOELLE, BRENDAN, AND NATHAN

WINTERMOOT IS A SUPERHERO UNIVERSE CREATED AS A CONCEPTUAL ART PROJECT. IT HAS A LOT OF FUNCTIONS, BUT IT IS MOSTLY ABOUT CLIMATE CHANGE AND THE WAY STORIES ARE TRANSMITTED. ONE OF THE KEY CHARACTERS IN ALL WINTERMOOT IS SHANNON ENTROPY, WHO HAS NOT BEEN FEATURED MUCH IN THE BOOKS THUS FAR, JUST SORT OF MILDLY INCLUDED. 'SHANNON ENTROPY' IS A TERM FROM INFORMATION THEORY THAT MEASURES WHAT IS LOST WHEN DATA IS TRANSMITTED THROUGH CYBERNETIC NETWORKS. IT IS ABOUT THE PROBABILITY OF EVENTS OCCURRING, AND ALL THE POSSIBLE OUTCOMES THAT WERE NEVER REALIZED. BUT IT IS COUNTERINTUITIVE, SHANNON ENTROPY INCREASES AS THINGS MOVE TOWARDS 1/2, OR AN ABSOLUTE BINARY. COMPLEX SYSTEMS PRODUCE LESS SHANNON ENTROPY.

WINTERMOOT IS WRITTEN IN A NON-LINEAR STYLE FOR A REASON. THAT REASON IS CONNECTED TO THE WAY STORIES TRANSMIT THROUGH AN ORAL TRADITION, AND THE ENTROPY ASSOCIATED WITH ALL THE POSSIBLE EVENTS AND OUTCOMES. HOW STORIES TRANSMIT BETTER WHEN THEY AVOID EQUAL PROBABILITIES. WINTERMOOT WILL NEVER REALLY BE FINISHED, JUST TRANSMITTED AS TWELVE BOOKS THAT LEAVE MUCH TO THE IMAGINATION, WHICH CAN BE REVISITED WHENEVER, HOWEVER, WHATEVER.

I WANT TO GIVE A SHORT EXPLANATION OF WHO THE CHARACTERS IN THIS STORY ARE BASED ON, AND WHY I AM TELLING THIS STORY THIS WAY (I AM USING SIDE A AND SIDE B AS EQUIPROBABLE BINARIES). I AM GOING TO DO IT THROUGH DECONSTRUCTING IT FROM MY OWN POINT OF VIEW. WINTERMOOT NINE IS A LOVE SONG TO TWO PEOPLE IN MY LIFE WHO ARE THE BASIS FOR SEVERAL CHARACTERS IN THESE STORIES. THE FIRST IS JOELLE HOWALD, WHO I AM MARRIED TO. EVERY FEMALE CHARACTER IN WINTERMOOT HAS A DOSE OF JOELLE IN THEM, FROM THE THINGS SHE SAYS TO THE WAY SHE IS. JOELLE IS A WOMAN WHO IS A TROPE IN HUMAN STORIES. IT WASN'T UNTIL I HAD LIVED WITH JOELLE FOR SEVERAL YEARS THAT I REALIZED THAT SHE IS FROM A LONG TRADITION OF SNOW WHITE WOMEN IN HISTORY. THE DARK-HAIRED WOMAN WHO SINGS TO ANIMALS. A MAGICAL BEING WHO HAS BIRDS KNOCKING ON THE WINDOWS FOR HER TO COME VISIT THEM OUTSIDE. A FORCE OF NATURE THAT IS KIND, RESERVED, SUBTLE. YET, FOR SNOW WHITES, THERE ARE ALWAYS FORCES OF EVIL THAT ARE JEALOUS

OF THEM, AND THESE FORCES ARE ALWAYS CONSPIRING, YET THEY REMAIN OPTIMISTIC AND THOUGHTFUL. ARÊTE IS ONLY PART JOELLE, BUT THE LOVE STORY BETWEEN ARÊTE AND ANTHROME IS SORT-OF OUR LOVE STORY, WITH SEVERAL ARTISTIC FLOURISHES. SHANNON ENTROPY IS THE CHILD WE ALWAYS IMAGINED HAVING, THOUGH WE NEVER HAD CHILDREN OF OUR OWN. IT IS A SAD AND BEAUTIFUL SPECULATION ABOUT US. THE SUBNIVEAN MISTRESS AND ALL HER PERSONALITIES ARE 100% JOELLE. SHE CAN CONTROL EVERY UNSEEN THING IN THE MULTIVERSE AND IS SECRETLY THE FORCE BEHIND THE MANDELA EFFECT. HER LOVER, GREEN BOREALIS, WELL, THAT SINCERE DUMBASS, THAT DUDE WHO WEARS FLANNELS AND NEVER LEARNS TO MASTER ANYTHING IS ME. THEY HAVE THEIR ADVENTURES, THEN RETIRE TO A MAGICAL TRAILER PARK TO LIVE FOREVER AS SHADOW MONSTERS AND WATCH THE WORLD GO ABOUT ITS BUSINESS OUTSIDE.

THE SECOND IS OUR MUTUAL FRIEND, BRENDAN PRICE. WE WERE KIDS IN THE 1990S, WHICH IS WHEN WE MET, AND WE WOULD MAKE MIXTAPES FOR EACH OTHER. ONE TIME JOELLE TOLD BRENDAN THAT SHE COULD LISTEN TO THE SONG 'SUZANNE' ON REPEAT FOREVER, AND HE MADE HER A MIXTAPE OF SUZANNE ON REPEAT. ON BOTH SIDES. THIS IS THE REASON FOR SUZANNE BEING A KEYSTONE ON SIDE A. SIDE B IS THE STORY OF ARÊTE BEING FOUND BY THE SUBNIVEAN MISTRESS AND SHANNON ENTROPY, USING THE DISGUISE OF THE WIGHT RAVEN. IN THE ORIGINAL SCRIPT, I HAD ARÊTE'S MOTHER SINGING HER PUNK ROCK SONGS WITH THE LYRICS CHANGED AT BEDTIME AND WAS TRYING TO COME UP WITH MY OWN REWRITES OF PUNK CLASSICS, WHEN I REALIZED I HAVE A FRIEND WHO PROBABLY ALREADY DOES THIS, SO I SIMPLY ASKED BRENDAN WHAT SONGS HE SINGS TO HIS BEAUTIFUL SON HANK, AND WHAT THE CHANGED LYRICS ARE. HE IMMEDIATELY HAD THE MOST HILARIOUS ANSWERS FOR ME, AND I AM USING HIS EXAMPLES BECAUSE THEY WERE BETTER THAN MINE. THESE TWO STORIES ARE TWO SIDES OF A MIXTAPE I AM MAKING FOR JOELLE AND BRENDAN. I WANT PEOPLE TO KNOW THAT BECAUSE IT IS IMPORTANT TO CITE YOUR SOURCES AND SAY WHEN PEOPLE HAVE INSPIRED THINGS IN YOU. JOELLE AND BRENDAN HAVE BOTH DONE THAT WITH ME COUNTLESS TIMES. AND HOW LUCKY IS HANK TO HAVE A MISFITS SONG ABOUT 'SANDWICHES' BEING SUNG TO HIM EVERY NIGHT BY A LOVING, AGING PUNK ROCKER?



# WINTERMOOT

$$H = - \sum p(x) \log p(x)$$

FINAL  
ENTROPY

EVENT  
PROBABILITY

LOGARITHM OF  
EVENT'S PROBABILITY

## SHANNON ENTROPEDIA (A FOUND POEM)

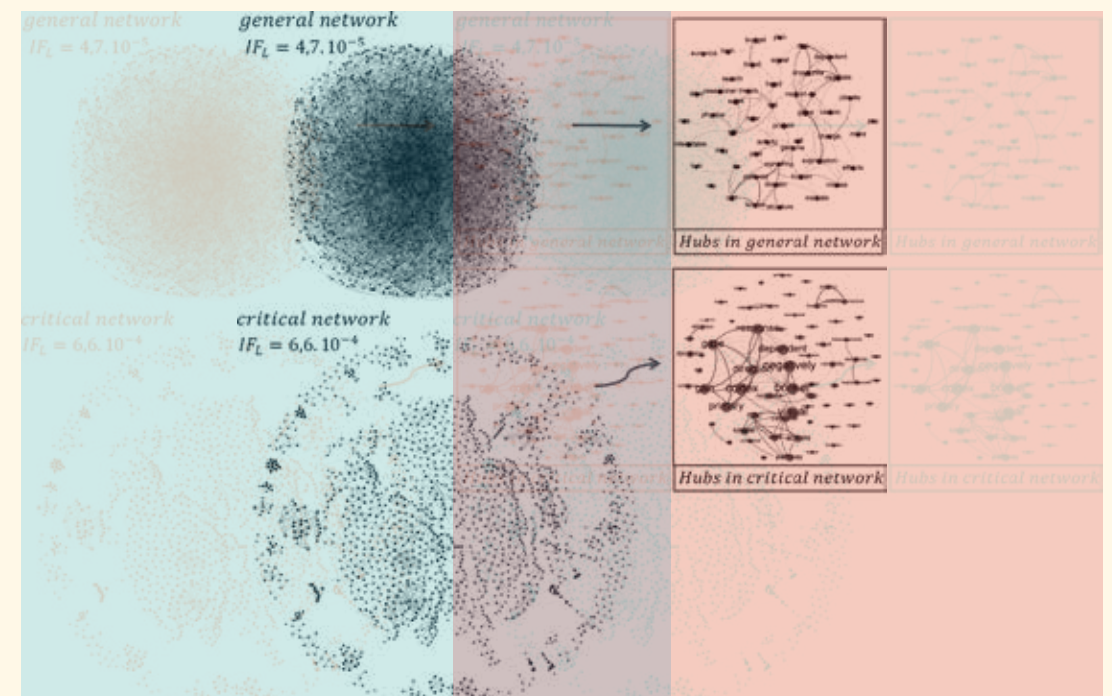
THE SHANNON (SYMBOL: SH) IS A UNIT OF INFORMATION NAMED AFTER CLAUDE SHANNON, THE FOUNDER OF INFORMATION THEORY. IEC 80000-13 DEFINES THE SHANNON AS THE INFORMATION CONTENT ASSOCIATED WITH AN EVENT WHEN THE PROBABILITY OF THE EVENT OCCURRING IS 1/2.

IT IS UNDERSTOOD AS SUCH WITHIN THE REALM OF INFORMATION THEORY, AND IS CONCEPTUALLY DISTINCT FROM THE BIT, A TERM USED IN DATA PROCESSING AND STORAGE TO DENOTE A SINGLE INSTANCE OF A BINARY SIGNAL. A SEQUENCE OF N BINARY SYMBOLS (SUCH AS CONTAINED IN COMPUTER MEMORY OR A BINARY DATA TRANSMISSION) IS PROPERLY DESCRIBED AS CONSISTING OF N BITS, BUT THE INFORMATION CONTENT OF THOSE N SYMBOLS MAY BE MORE OR LESS THAN N SHANNONS DEPENDING ON THE A PRIORI PROBABILITY OF THE ACTUAL SEQUENCE OF SYMBOLS.[1]

THE SHANNON ALSO SERVES AS A UNIT OF THE INFORMATION ENTROPY OF AN EVENT, WHICH IS DEFINED AS THE EXPECTED VALUE OF THE INFORMATION CONTENT OF THE EVENT (IE., THE PROBABILITY-WEIGHTED AVERAGE OF THE IN-

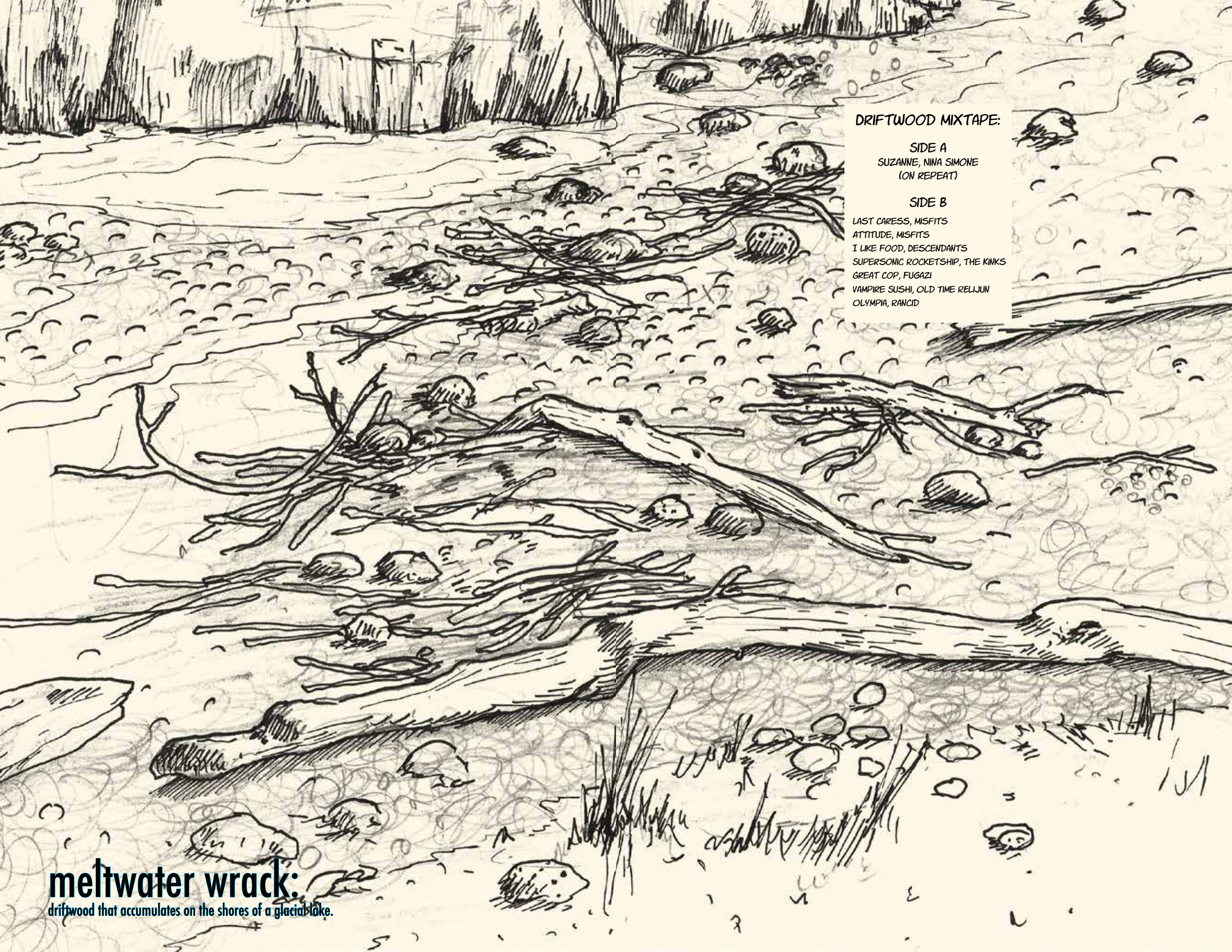
FORMATION CONTENT OF ALL POTENTIAL EVENTS). GIVEN A NUMBER OF POSSIBLE OUTCOMES, UNLIKE INFORMATION CONTENT, THE ENTROPY HAS AN UPPER BOUND, WHICH IS REACHED WHEN THE POSSIBLE OUTCOMES ARE EQUIPROBABLE. THE MAXIMUM ENTROPY OF N BITS IS **N SH**. A FURTHER QUANTITY THAT IT IS USED FOR IS CHANNEL CAPACITY, WHICH IS GENERALLY THE MAXIMUM OF THE EXPECTED VALUE OF THE INFORMATION CONTENT ENCODED OVER A CHANNEL THAT CAN BE TRANSFERRED WITH NEGLIGIBLE PROBABILITY OF ERROR, TYPICALLY IN THE FORM OF AN INFORMATION RATE.

NEVERTHELESS, THE TERM BITS OF INFORMATION OR SIMPLY BITS IS MORE OFTEN HEARD, EVEN IN THE FIELDS OF INFORMATION AND COMMUNICATION THEORY, RATHER THAN SHANNONS; JUST SAYING BITS CAN THEREFORE BE AMBIGUOUS. USING THE UNIT SHANNON IS AN EXPLICIT REFERENCE TO A QUANTITY OF INFORMATION CONTENT, INFORMATION ENTROPY OR CHANNEL CAPACITY, AND IS NOT RESTRICTED TO BINARY DATA[2] WHEREAS "BITS" CAN AS WELL REFER TO THE NUMBER OF BINARY SYMBOLS INVOLVED, AS IS THE TERM USED IN FIELDS SUCH AS DATA PROCESSING.



SHANNON  
ENTROPY





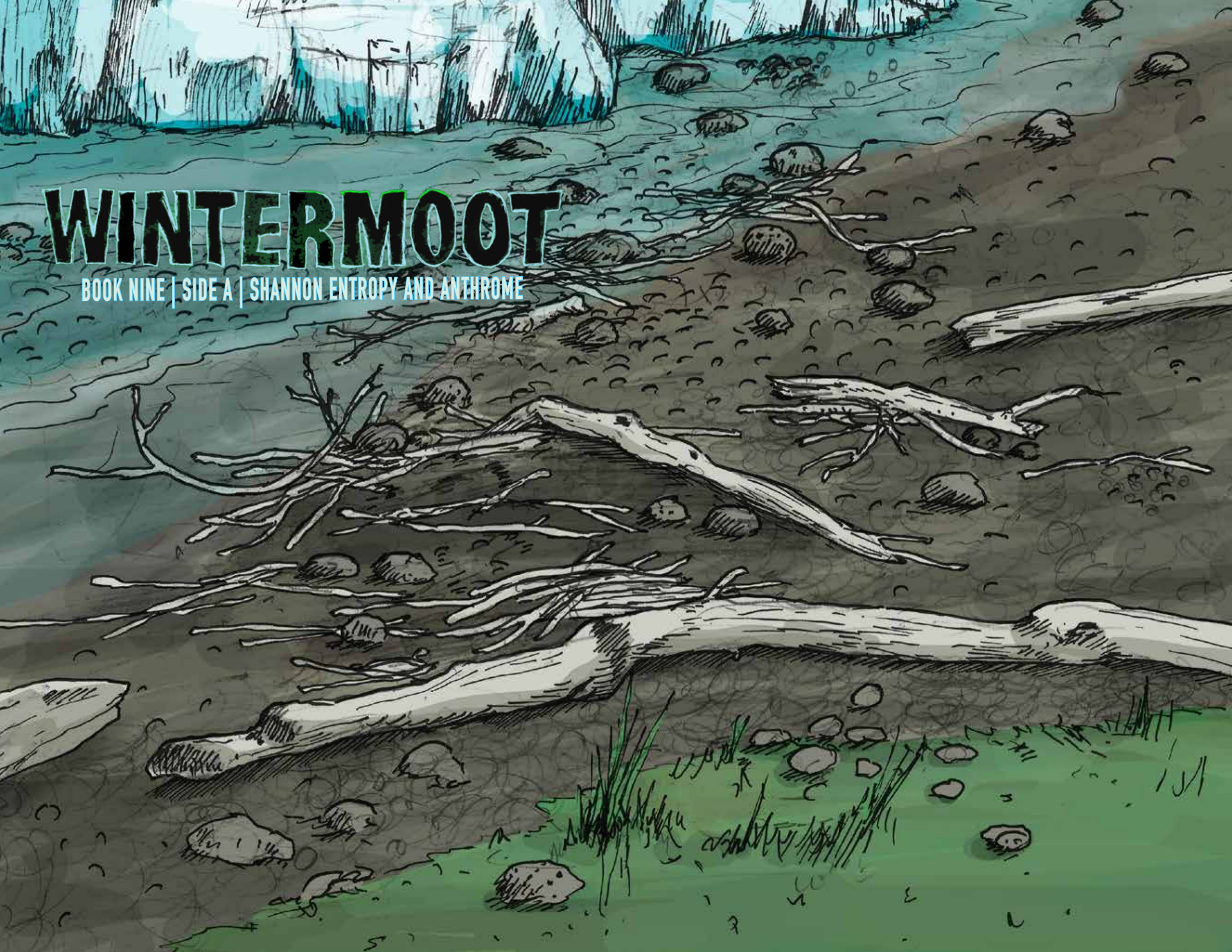
DRIFTWOOD MIXTAPE:

SIDE A  
SUZANNE, NINA SIMONE  
(ON REPEAT)

SIDE B  
LAST CARESS, MISFITS  
ATTITUDE, MISFITS  
I LIKE FOOD, DESCENDANTS  
SUPERSONIC ROCKETSHIP, THE KINKS  
GREAT COP, FUGAZI  
VAMPIRE SUSHI, OLD TIME RELJUN  
OLYMPIA, RANCID

**meltwater wrack:**  
driftwood that accumulates on the shores of a glacial lake.





# WINTERMOOT

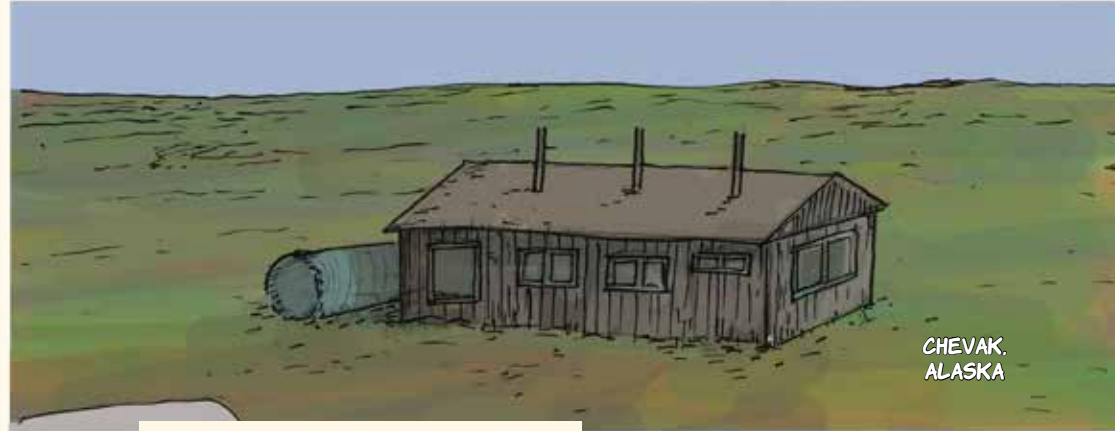
BOOK NINE | SIDE A | SHANNON ENTROPY AND ANTHROME



# WINTERMOOT

BOOK NINE | SIDE A:  
SHANNON ENTROPY AND ANTHROME

OUR CRYOVERSE APART (PART 3):  
"HEROES IN THE SEAWEED"



CHEVAK,  
ALASKA

WE BEGIN WITH A SONG I GOT STUCK IN MY HEAD.



IT IS SUZANNE BY NINA SIMONE.

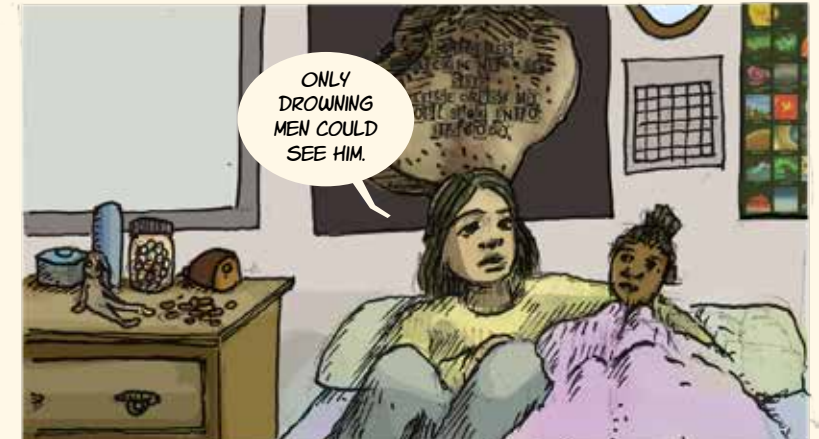
I CAN'T REMEMBER WHEN I FELL IN LOVE WITH NINA SIMONE.

MAYBE IT WAS MY ATA (MOTHER).



SHE WOULD SING NINA'S SONGS TO ME WHEN I WENT TO SLEEP.

MY AANA (FATHER) WOULD ALWAYS STAND IN THE DOORWAY AND LISTEN.



I GREW UP THINKING NINA HAD WRITTEN SUZANNE.  
OR AT LEAST THAT SHE WAS THE ONLY RECORDING.



I LOVE NINA SIMONE.



WE HAVE BEEN LOST IN THIS PART OF THE CRYOVERSE FOR THREE SUMMERS.

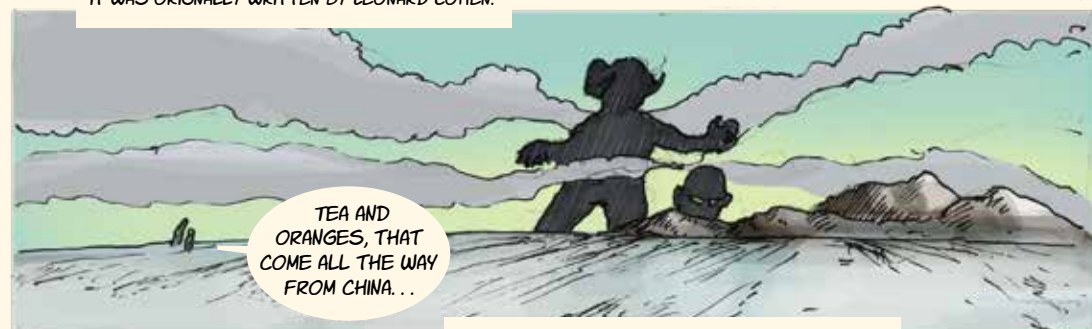
EVERY DAY SINCE WE HAVE BEEN HERE  
I GET NINA'S SUZANNE STUCK IN MY HEAD.



IT WAS ORIGINALLY WRITTEN BY LEONARD COHEN.

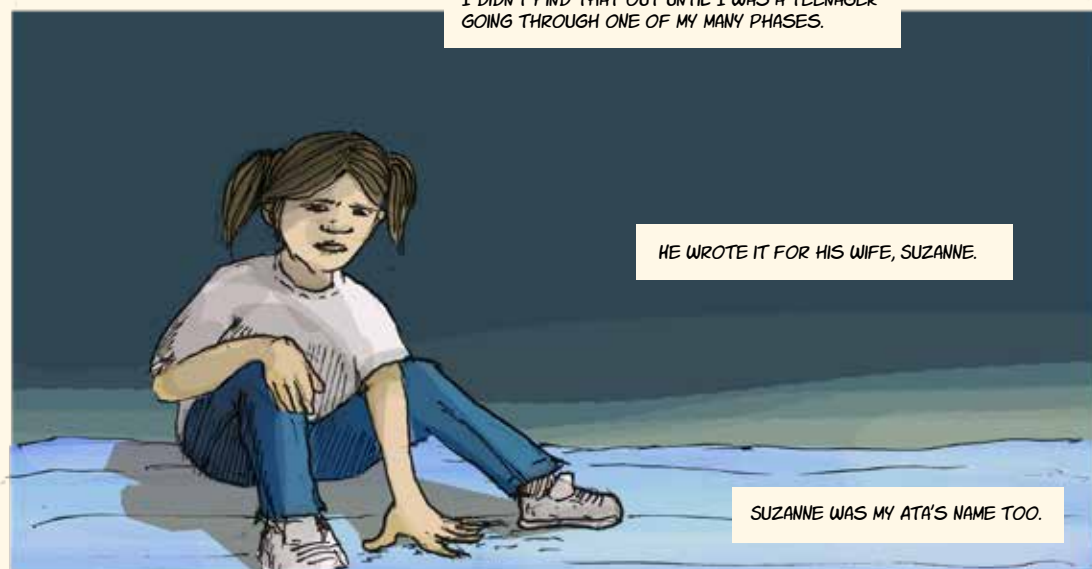


AND YOU  
WANT TO TRAVEL  
WITH HER...



TEA AND  
ORANGES, THAT  
COME ALL THE WAY  
FROM CHINA...

I DIDN'T FIND THAT OUT UNTIL I WAS A TEENAGER  
GOING THROUGH ONE OF MY MANY PHASES.



HE WROTE IT FOR HIS WIFE, SUZANNE.

SUZANNE WAS MY ATA'S NAME TOO.

WELL, THE NAME MY AANA WOULD CALL HER.



I THOUGHT NINA HAD WRITTEN IT FOR A BEAUTIFUL  
CUPIK GIRL WHO GREW UP IN CHEVAK.



FROM  
SALVATION ARMY  
COUNTERS.



BUT THAT SONG WAS WRITTEN A  
DECADE BEFORE MY ATA WAS BORN.



WHEN I GOT MY POWERS, I WAS SCARED TO TELL MY ATA - THEN  
WHEN I TOLD HER, ALL SHE SAID WAS A LYRIC FROM THAT SONG.



THERE ARE  
HEROES IN THE  
SEAWEEED.

THAT WAS THE FIRST TIME I NOTICED  
THE CHANGE HAPPENING IN ATA'S MIND.



IT WAS LIKE SHE HAD THAT SONG  
STUCK ON REPEAT IN HER HEAD.

SHE'S  
TOUCHED YOUR  
PERFECT BODY  
WITH HER  
MIND.



IT IS ALSO THE SONG I HAVE  
STUCK IN MY HEAD RIGHT NOW.

SUZANNE.



WE ARE TRAVELING BLIND.



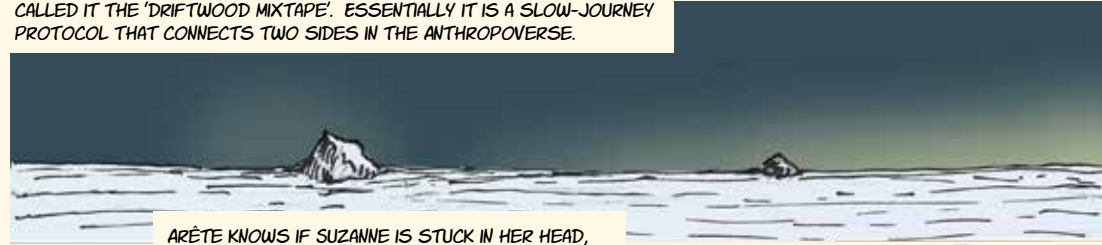
BUT I KNOW THAT IS THE SONG ARÊTE HAS  
STUCK IN HER HEAD RIGHT NOW TOO.



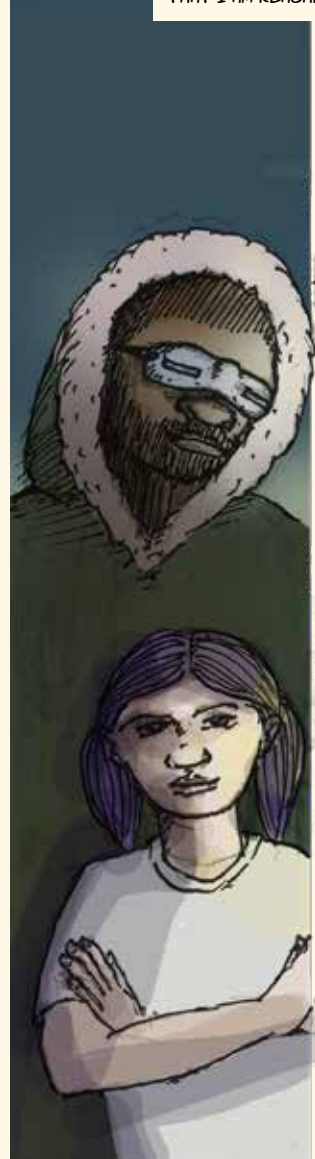
THAT IS THE SONG I USE TO KEEP US CONNECTED IN OUR CRYOVERSE APART.

SUZANNE.

IT IS A TECHNIQUE CREATED BY THE FIRST KNIK QUARTERMASTER, AARON. HE CALLED IT THE 'DRIFTWOOD MIXTAPE'. ESSENTIALLY IT IS A SLOW-JOURNEY PROTOCOL THAT CONNECTS TWO SIDES IN THE ANTHROVERSE.



ARÊTE KNOWS IF SUZANNE IS STUCK IN HER HEAD, THAT I AM REACHING OUT TO HER WITH MY POWERS.



IT DIDN'T OCCUR TO ME WHEN I IMPLEMENTED THAT MAGIC IN THE ANTHROVERSE, IT WOULD ALSO CONNECT US TO SHAVILA SHANNON -

BIG BANG BEIGE



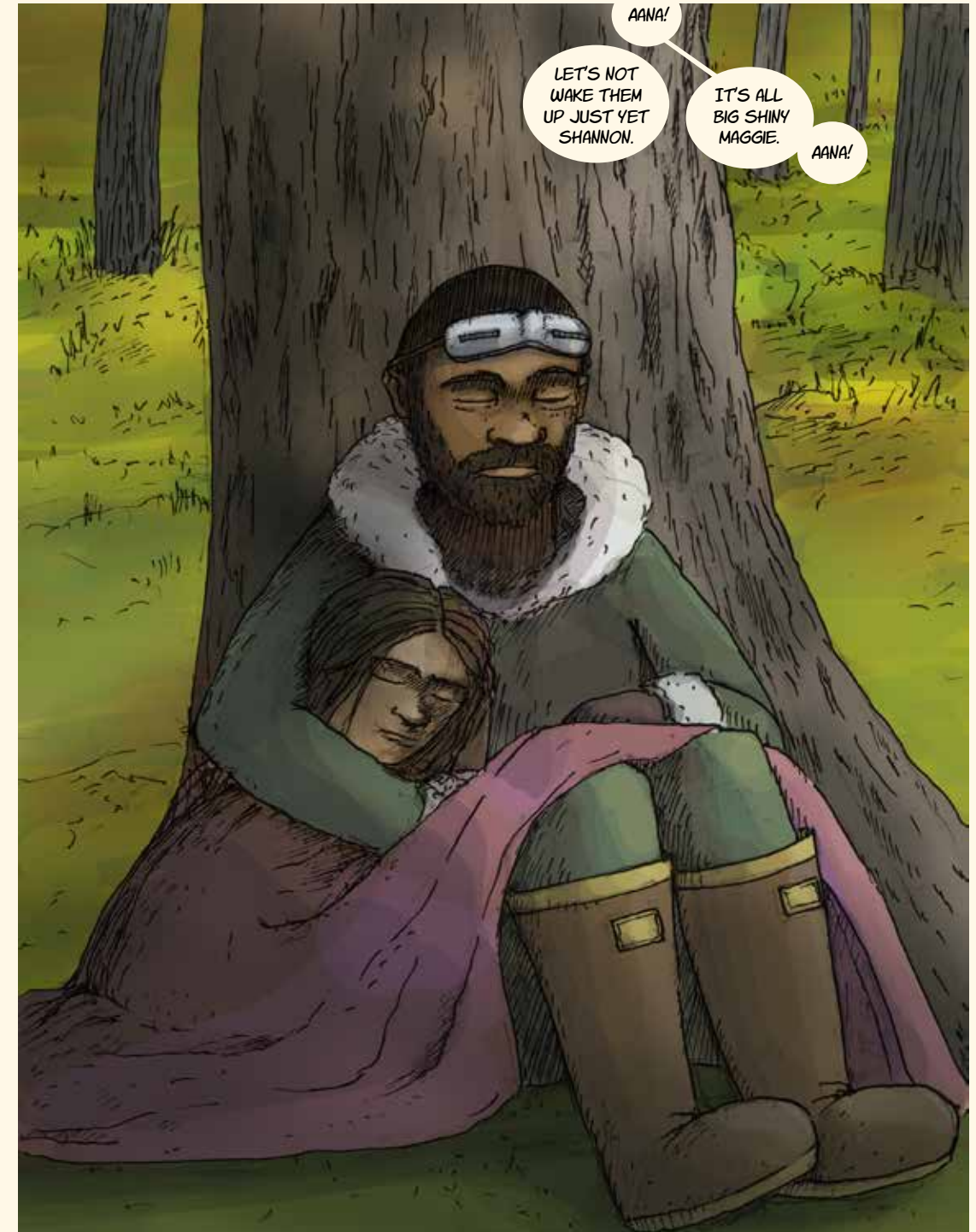
SKYVORY

THERE ARE CHILDREN IN THE MORNING.

ARÊTE

- OUR FUTURE DAUGHTER.

SHAVILA SHANNON. OUR LITTLE GIRL.  
SHANNON ENTROPY!



AANA!

LET'S NOT WAKE THEM UP JUST YET SHANNON.

IT'S ALL BIG SHINY MAGGIE.

AANA!

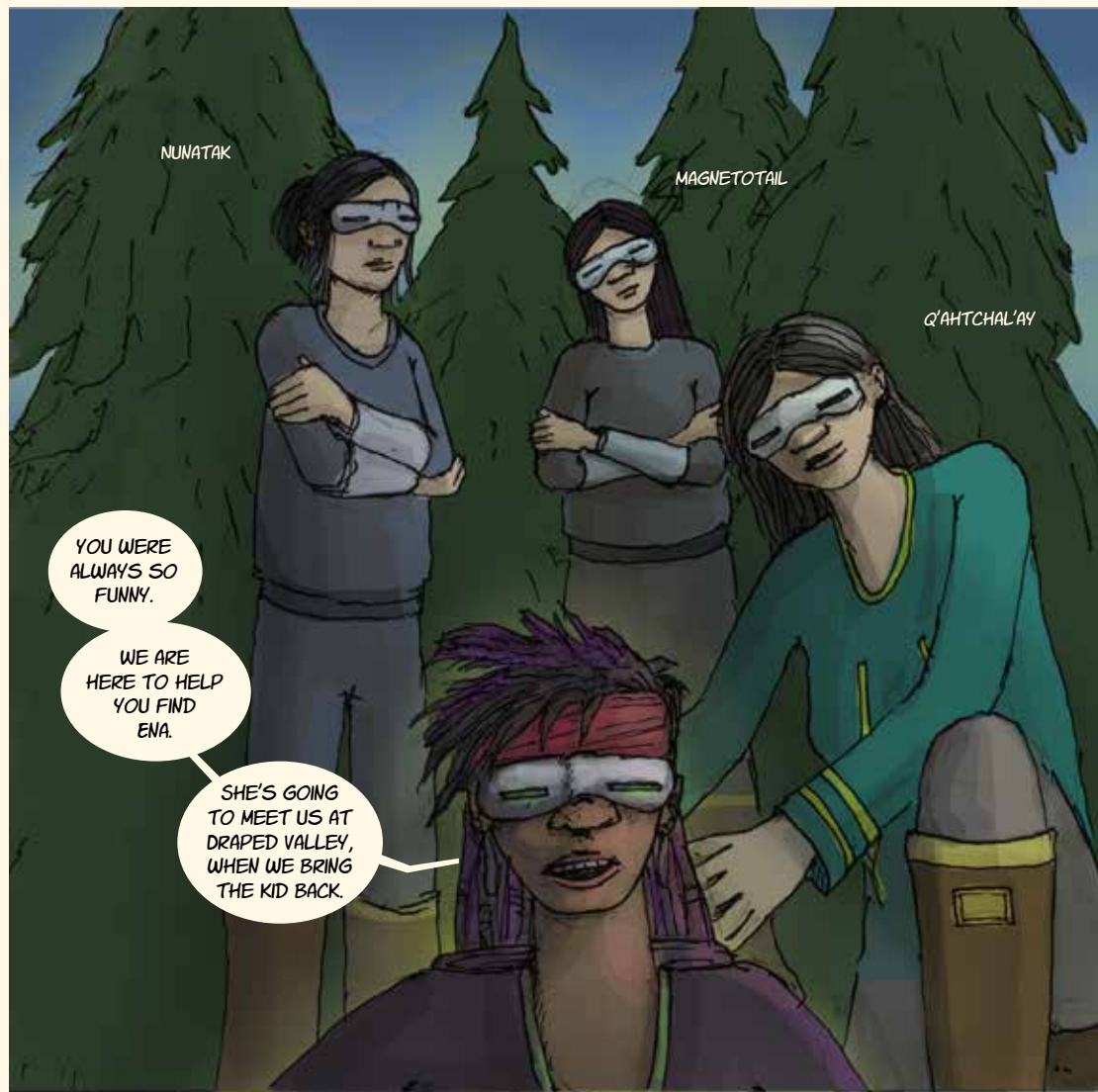
THEN THAT ONE TIME WE FELL ASLEEP FEELING TOTALLY HOPELESS AND WOKE UP TO A BEAUTIFUL FACE WHO HAD NOT BEEN BORN YET.



OUR CRYOVERSE APART (PART 4):  
"CHILDREN IN THE MORNING"



IT TOOK ME A FEW MOMENTS TO REALIZE I WASN'T HALLUCINATING FROM HUNGER.



THE SUBNIVEAN  
MISTRESS WILL  
REDACT IT.

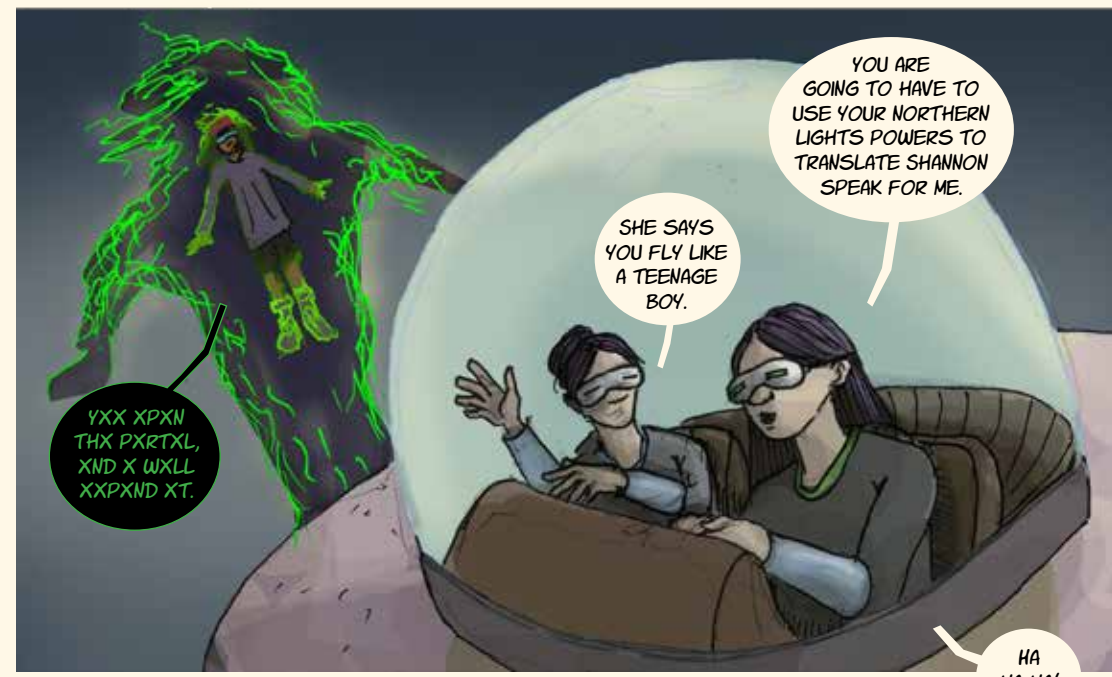
THIS IS ONE  
OF THE EVXNT  
PRXBXLTXXS.





I'M STILL PROCESSING THE IDEA OF MEETING SHAVILA, WHEN I REALIZE THE SLACK TIDE DUO FROM 20 YEARS AGO IS FLYING BLOOD SNOW'S AMOEBILE.

THEY DIED WHEN I WAS A KID.

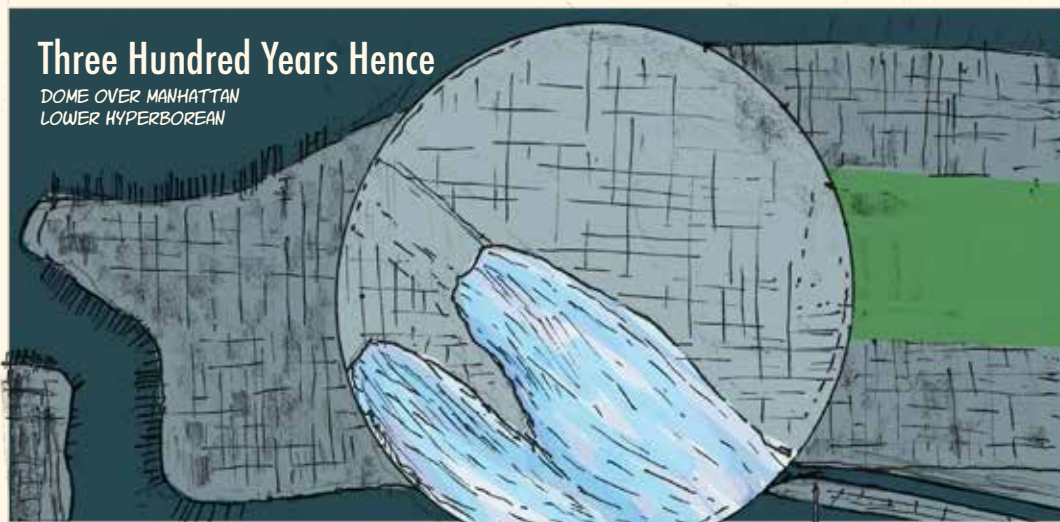


TO BE CONTINUED IN WINTERMOOT  
BOOK TEN: THE SAGHANI SOCIETIES ...



## Three Hundred Years Hence

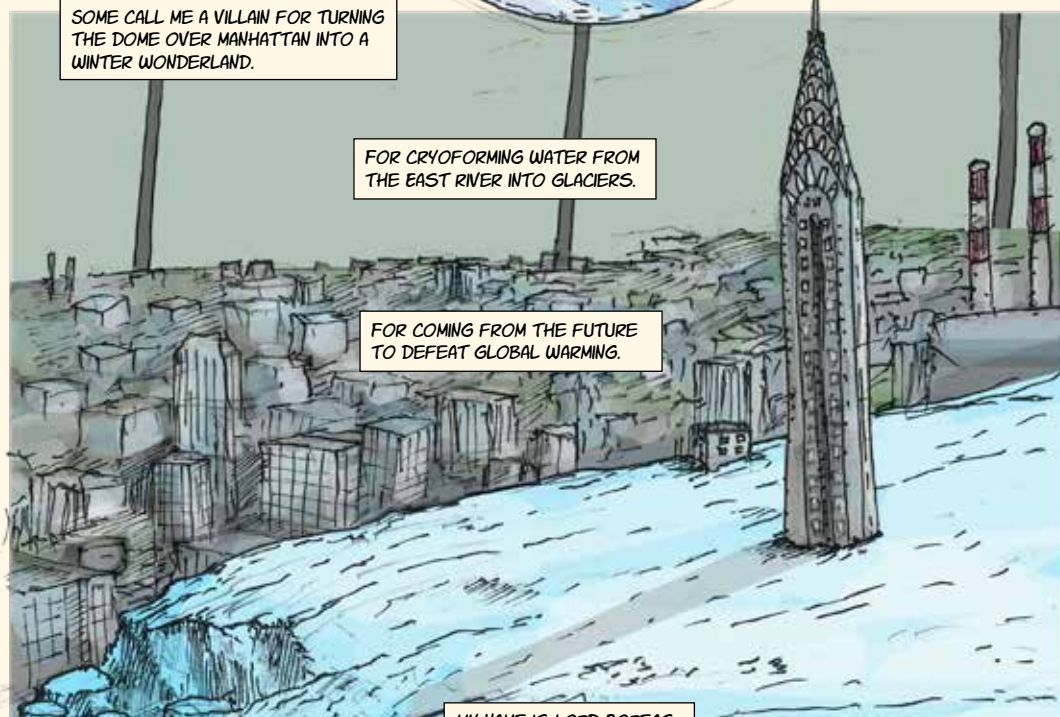
DOMES OVER MANHATTAN  
LOWER HYPERBOREAN



SOME CALL ME A VILLAIN FOR TURNING  
THE DOME OVER MANHATTAN INTO A  
WINTER WONDERLAND.

FOR CRYOFORMING WATER FROM  
THE EAST RIVER INTO GLACIERS.

FOR COMING FROM THE FUTURE  
TO DEFEAT GLOBAL WARMING.



MY NAME IS LORD BOREAS.

I HAVE COME FROM AN EARTH  
THREE HUNDRED YEARS HENCE.

I AM HERE TO SAVE THE  
WORLD FROM ITSELF.



## Three Hundred Years Hence

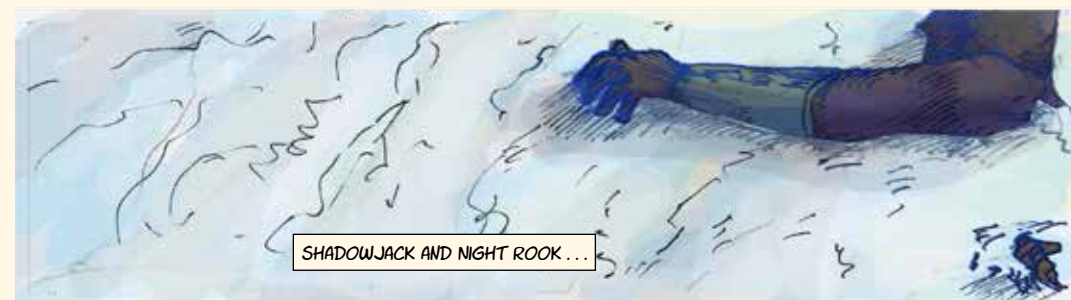
LORD BOREAS'S COLLECTION IN THE GLACIER,  
WHERE LAYS FROZEN THE SAGANI SOCIETY,  
DEFEATED AND SOON-TO-BE FORGOTTEN.



A LOT OF NEW YORKERS WERE NOT  
HAPPY WITH MY PLANS FOR THE CITY.

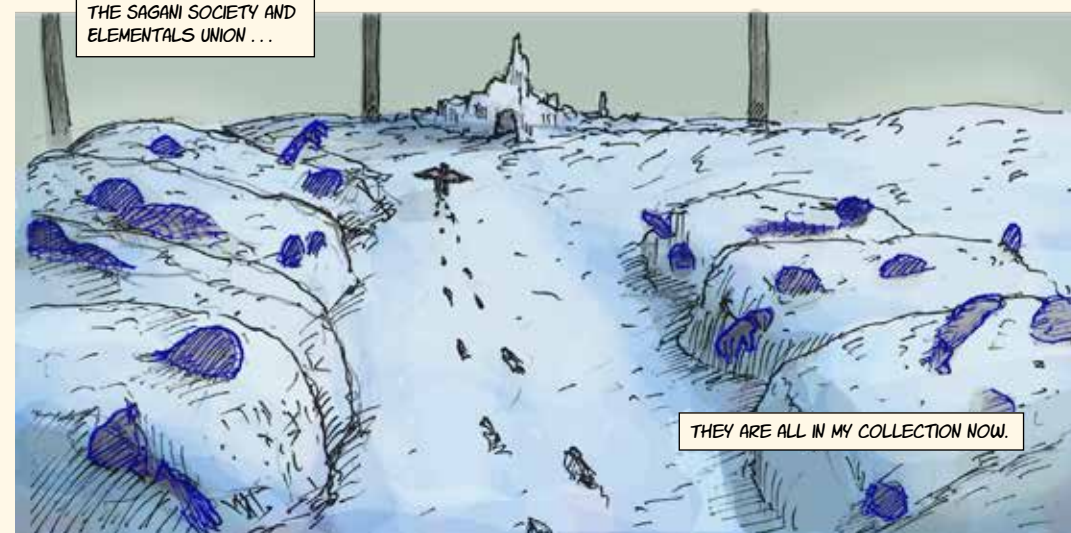


EVERY VIGILANTE EVENTUALLY  
SUCCUMBED TO MY POWERS.



SHADOWJACK AND NIGHT ROOK ...

THE SAGANI SOCIETY AND  
ELEMENTALS UNION ...



THEY ARE ALL IN MY COLLECTION NOW.

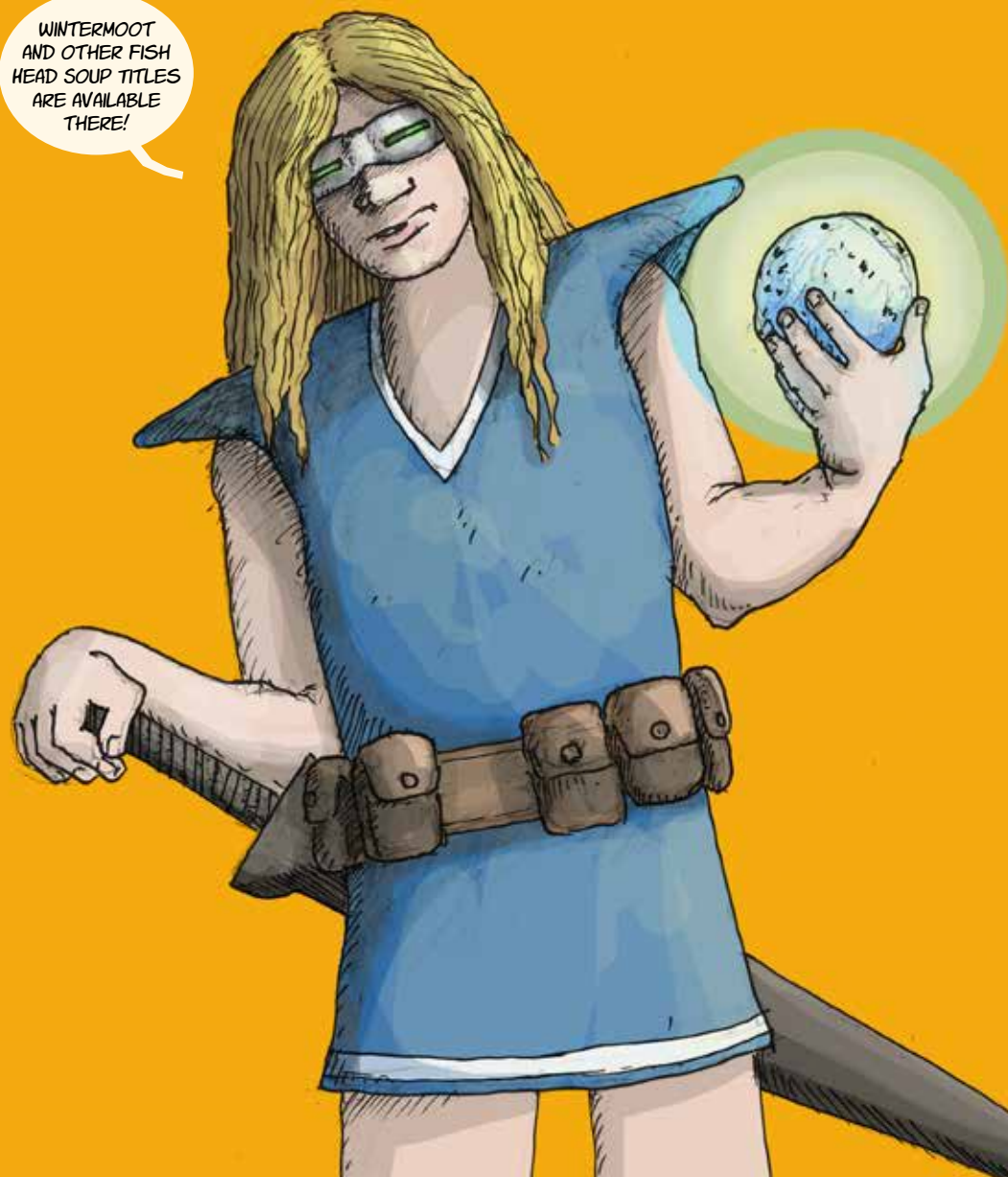


COMICS • CARDS • GAMES

# BOSCO'S

TM

WINTERMOOT  
AND OTHER FISH  
HEAD SOUP TITLES  
ARE AVAILABLE  
THERE!



ŁUK'AE TSE' TAAS COMICS & SHARED UNIVERSE

#Wight Raven, #Alaskan Death Metal, #Black  
Pyramid and #Bone Eating Snot Flowers!

## NATHAN SHAFER WINTERMOOT

BOOK NINE | SIDE B | SHANNON ENTROPY AND ARÊTE



SHXRXD  
XNXVRSX





WINTERMOOT BOOK NINE | SIDE B  
SHANNON ENTROPY AND ARÊTE

ART, STORY, AND AUGMENTED REALITY BY NATHAN SHAFER

EXCERPTS FROM "LAST CARESS" BY THE MISFITS, 1980  
REPLACEMENT LYRICS TO "LAST SANDWICH" BY BRENDAN PRICE



**GLADYS MIDNIGHT:**  
OTHER NAMES: GLADYS SULLIVAN  
POWER ORIGINS: ALASKAN DEATH METAL, VERMEVERSE

AN AHTNA WOMAN BORN IN CHICKALOON. FRONTED THE ALASKAN DEATH METAL BAND BONE EATING SNOT FLOWER SINCE 1994. SHE HAS HAD A HANDFUL OF SOLO PROJECTS AND IS THE MOTHER OF ARÊTE (MELISSA)



**ARÊTE:**  
OTHER NAMES: MELISSA CH'VALTEH SULLIVAN  
POWER ORIGINS: CRYOVERSE

A DENA'INA/AHTNA WOMAN BORN IN DENALI CITY. STUDIED ANTHROPOLOGY AND HAD HER INNATE ICE POWERS ENHANCED BY ŁI DNAY (GLACIER PEOPLE). SHE IS ON THE AUTISM SPECTRUM AND IN LOVE WITH ANTHROME.



**SHANNON ENTROPY:**  
OTHER NAMES: SHAVILA SHANNON GUTHRIE  
POWER ORIGINS: NEGENTROVERSE

THE BIOLOGICAL DAUGHTER OF ARÊTE AND ANTHROME, WHO DRAWS POWERS FROM THE NEGENTROVERSE, AN OBSERVED FUNCTION OF LIFE IN THE UNIVERSE. SHE CAN BRING BIOLOGICAL ORDER TO ANY THING, NETWORK OR SYSTEM.



**THE WIGHT RAVEN:**  
OTHER NAMES: OLIVE VIDALIA, THE SUBNIVEAN MISTRESS, SNOW WIGHT  
POWER ORIGINS: THE SUBNIVEAN REALM

THE WIGHT RAVEN IS ONE OF THE MANY IDENTITIES USED BY OLIVE VIDALIA, AKA THE SUBNIVEAN MISTRESS. IN HER GUISE AS THE WIGHT RAVEN, SHE WALKS BETWEEN REALITIES, WITH THE MAGIC OF "NÁBRÓKARSTAFUR" IN HER POCKET.

WINTERMOOT



LOCATOR CAPTION: THE SUZANNEAN ŁITEH  
ARÊTE, ANTHROME AND SHANNON ENTROPY

I FOUND A LIMINAL SPACE WHILE I WAS MAKING THIS COMIC BOOK. THE PORTAL FIRST OPENED WHILE I HAD A SONG ON REPEAT WHILE DRIVING ON NORTHERN LIGHTS BLVD. THAT SONG IS NINA SIMONE'S VERSION OF LEONARD COHEN'S "SUZANNE". I KEPT THAT SONG ON REPEAT WHILE I WAS DRAWING THIS COMIC TOO. THE LIMINAL SPACE THAT THIS SONG OPENED, IS CALLED "THE SUZANNEAN ŁITEH" A TRANSITIONAL SPACE BETWEEN AN ICE FIELD AND AN ANCIENT SIMULATION WHERE THE OVERWHELMING EMOTION PERMEATING EVERYTHING IS THE DESPERATION OF TRYING TO FIND HOME AND LOVED ONES.

SOME OF THESE BUILDINGS HAVE DOORWAYS TO OTHER LIMINAL SPACES. SOME DO NOT.

WHILE THERE ARE GLACIERS TERMINATING FROM THE ICE FIELD DOWN INTO FORESTED VALLEYS AND SHORES, THEY ALL EVENTUALLY CIRCLE BACK TO THE LARGE ICE FIELD AND ARE REALLY A PART OF THE SIMULATION. ULTIMATELY NO ONE EVER LEAVES THIS INFINITE EXPANSE OF ICE EXCEPT THROUGH THE IRREGULAR CONCRETE BUILDINGS LOCATED AT RANDOM NUNATAKS.

THE SUZANNEAN ŁITEH IS MUCH LIKE WINTERMOOT'S ORIGINAL IDEAS OF THE CRYOVERSE AND THE ŁITEH, WHICH ARE ACCESSED BY FOLKS WITH GLACIER POWERS. IT IS ALSO WHERE ARÊTE AND ANTHROME HAVE BEEN LOST SINCE WINTERMOOT BOOK FOUR. THERE ARE GIANTIC SIMULATION ENTITIES THAT CAN BE SEEN IN SHADOW, TOWERING HIGH ABOVE THE HORIZON, OUTSIDE OF THE SUZANNEAN ŁITEH.

ALASKAN ICE FIELDS ARE BIG, BUT THIS PLACE IS INFINITE, ARTIFICIALLY EXTENDED BY THE ANCIENT SIMULATION IT SHARES A SPACE WITH. IT HAS RANDOM NUNATAKS POKING OUT, EACH NUNATAK HOUSING A UNIQUE ECOSYSTEM OF PLANTS AND ANIMALS. SOME OF THESE NUNATAKS HOUSE SMALL CONCRETE BUILDINGS.

USE AUGMENTED REALITY TO TRANSLATE  
SHAVILA SHANNON'S 'INFORMATION ENTROPYSPEAK'!



WINTERMOOT BOOK NINE  
SHANNON ENTROPY  
FIRST PRINTING | JULY 2025

ALTERNATIVE REALITY, INFORMATION THEORY,  
ALTERNATE HISTORY, "THE BLACK PYRAMID",  
URBAN LEGEND, CONSPIRACY THEORY,  
MK-ULTRA, PROJECT STARGATE,  
SHANNON ENTROPY, (BITS - BYTES - SHANNONS)

"CRANE'S CHICKEN" WAS CONCEIVED OF BY HENSON.  
IT IS MARVELOUS.





### The Cyberingian Simulation:

<<the ancient simulation that lays over every place where the northern lights shine. It is stewarded by KNOWN RAVERNKIND.>>

<<Qatsitsetsi:>>

the Dena'ina word  
for 'DREAM'

The literal translation  
is 'HEAD TOUCHES PLACE'.



# WINTERMOOT

ROGNON'S LAST STAND  
(Welleislehre Theatre)

Office Spaces of  
the Berryverse

Shade Garden  
of Known  
Ravenspace

Raven's Head  
Plaza

Five Corvids  
Trading Post

The  
Black  
Pyramid

Cryoconite  
Pool

Spriteneast  
Rookery

Agartha  
Mission

Stargate  
Coffee

Simulation  
Generator

Quest  
Factory





HEAD TOUCHES PLACE

DARKNESS IN THE BOI

NOW ENTERING  
KNOWN RAVENSPACE  
PIKNO RAVENSPACE  
INAPPROPRIATE MAGIC



NORMAL  
DIFFICULT  
OCCULT  
EXTRATERRESTRIAL  
CORVIDAE

KILL QUEST  
PRESS START

COLLECT DEATH

MAKE RANTS

INSERT COIN TO PLAY

NECROPANTS

CONTROL TRANSFINITE CHRONOZONE DELETEBER

RYVERSE

MAYBE ENTER SOME

OR SOMETHING

OF THE SUBTERRANIAN REALMS



# WINTERMOOT

BOOK NINE | SIDE B:  
SHANNON ENTROPY AND ARÊTE

OUR CRYOVERSE APART (PART 5):  
"I ATE A SANDWICH TODAY"



THAT WAS THE NAME OF MY MOM'S BAND. BONE EATING SNOT FLOWER.



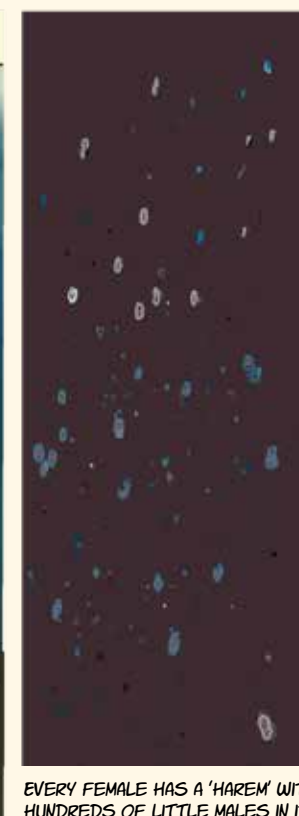
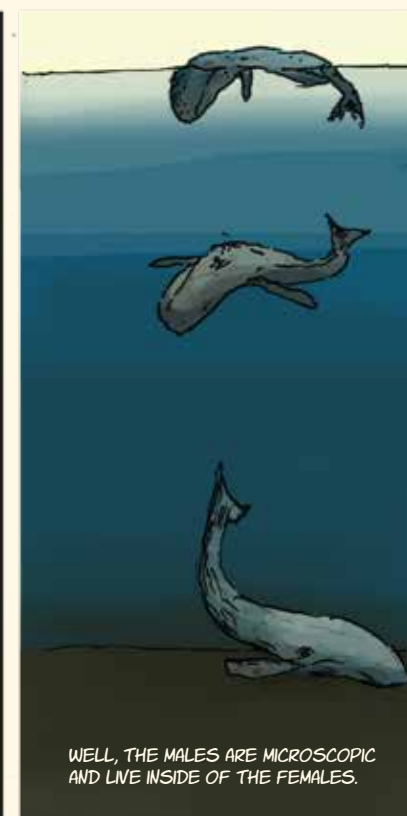
\* SING THESE LYRICS TO THE MISFITS "LAST CARESS"



BUT BEFORE I GO AND GET INTO ALL OF THAT -  
BONE EATING SNOT FLOWERS.



NOT ONLY IS IT A WORM, BUT IT IS ALSO A WORM THAT LIVES ON THE BOTTOM OF THE OCEAN AND EATS DEAD WHALES.



I WOULD SAY THIS IS WHERE MY LOVE FOR WORMS ORIGINATED.



THERE ARE  
SEVERAL WORM  
KLEWS AT THOSE  
NUNATAKS!

MAYBE THEY  
KNOW THE WAY TO  
GET US HOME.

RAVEN'S HEAD  
NUNATAK

AT FIVE YEARS OLD, I WANTED TO BE  
A VERMEOLOGIST WHEN I GREW UP.

IN MIDDLE SCHOOL, I KEPT BONE  
EATING SNOT FLOWERS AS PETS  
FOR A SCIENCE FAIR PROJECT.

VERMEOLOGY IS OBVIOUSLY  
THE STUDY OF WORMS.

MESENCHYTRAUS SOLIFUGUS

EISENIA FETIDA

OSDAX MUOFLORIS

CAENORHABDITIS ELEGANS

WELL, MAYBE NOT OBVIOUSLY. VERMEOLOGY IS KIND OF AN OLD-FASHIONED TERM

SO, ANYWAYS, MY MOM IS GLADYS MIDNIGHT, LEAD SINGER FOR BONE EATING SNOT  
FLOWER, ONE OF THE BIGGEST ALASKAN DEATH METAL BANDS FROM THE 1990s.

SHE WOULD SING ME TO SLEEP WITH PUNK  
SONGS SHE CHANGED THE LYRICS TO.

SWEET  
LOVELY BREAD. I  
AM WAITING FOR  
THAT SPREAD.

SHE KNEW I LOVED WORMS TOO.

GUYS!  
THERE IS A  
WHITE RAVEN  
OVER HERE!

IT --  
HAS GOTTEN  
INTO SOME  
TRASH?

SHE CALLED ME HER 'LITTLE NEMATODE'.



ANYWAYS, I STILL GOT 'SUZANNE' STUCK IN MY HEAD  
WHEN WE RUN INTO THIS WHITE RAVEN EATING TRASH.

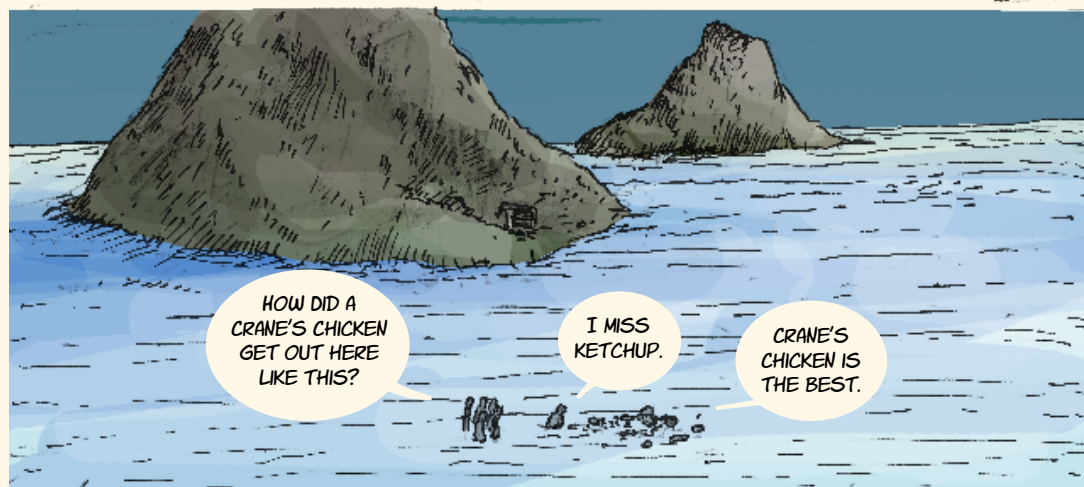
'SUZANNE' IS THE SONG ANTHROME PUTS IN MY HEAD TO HELP US  
FIND EACH OTHER. LIKE MARCO POLO, BUT ACROSS REALITIES.

HE CALLS IT HIS 'MIX-TAPE' PROTOCOL.

TWO YEARS  
WE'VE BEEN HERE,  
AND I NEVER SEEN  
ANY TRASH -

LET ALONE ANY  
HUMAN TRASH. WE  
HAVEN'T SEEN  
PEOPLE!

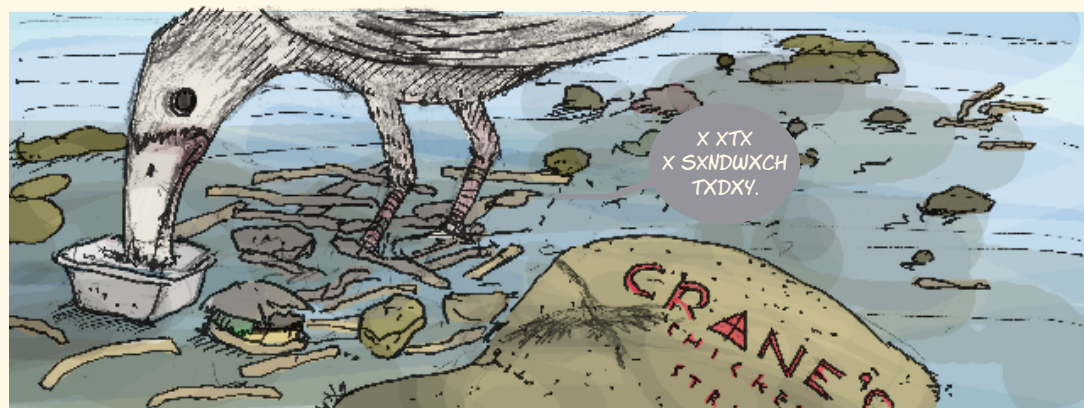
X GXT  
SXMXTXNG  
TX SXY!



HOW DID A  
CRANE'S CHICKEN  
GET OUT HERE  
LIKE THIS?

I MISS  
KETCHUP.

CRANE'S  
CHICKEN IS  
THE BEST.



X XTX  
X SXNDWXCH  
TXDXY.

ANTHROME SAID WHEN THE TWO MIXTAPES  
MEET, THAT IS WHEN WE ARE CLOSE.

WHEN ONE SAYS 'MARCO' THE OTHER SAYS 'POLO'.

JUST LIKE THAT.

OUR CRYOVERSE APART (PART 6):  
"X XTX X SXNDWXCH TXDXY"

XND XT  
DXXSN'T RXXLLX  
MXTTXER THXT  
MXCH TX MX

MARCO.

TWO THINGS:  
WHERE DID THIS  
TRASH COME  
FROM?

AND WHAT  
IN THE WORLD  
IS THAT RAVEN  
SAYING?



THAT IS  
A SONG MY  
MOTHER WOULD  
SING TO ME AS  
A KID.

BUT THAT  
RAVEN IS SINGING  
IT WITHOUT ANY  
VOWELS.

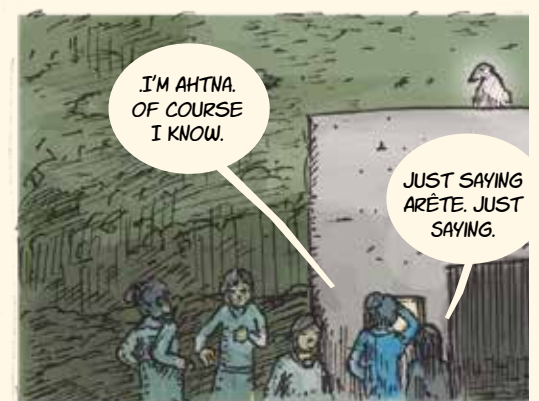
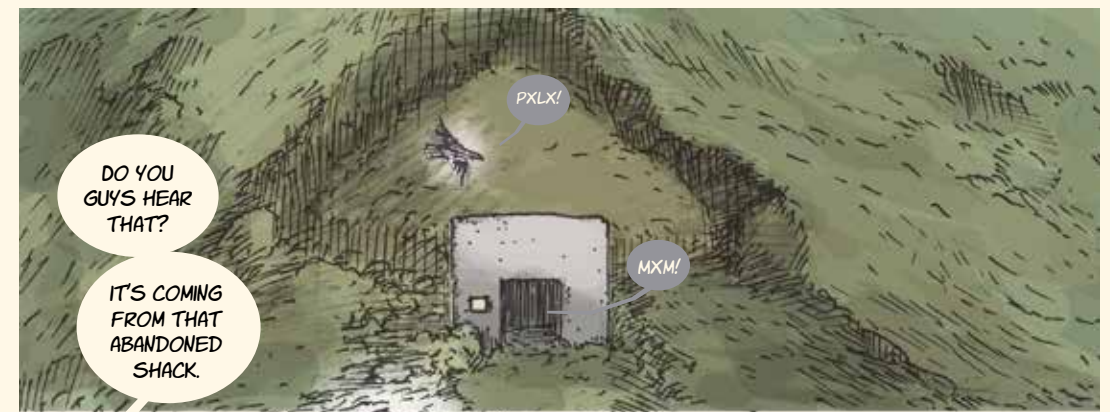
XS LXNG  
XS THRX  
XS BRXXD.







SWEET LOVELY BREAD,  
I AM WAITING FOR THAT SPREAD.







THAT VOICE  
IS COMING FROM  
THE INSIDE, YOU  
GOTTA GO IN!

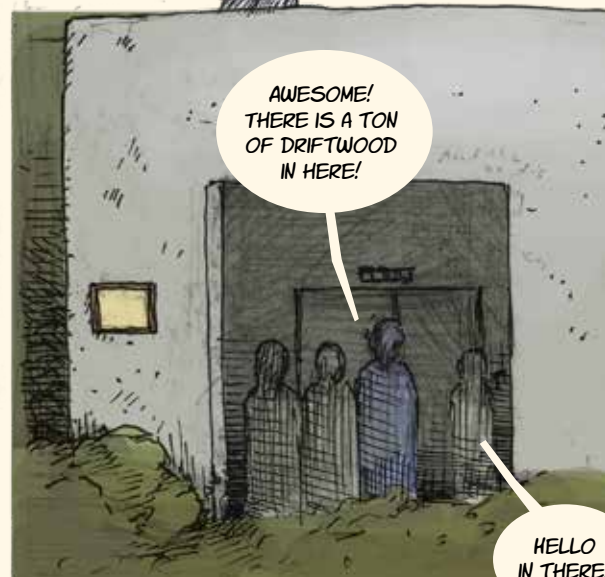
OBVIOUSLY.  
IT IS JUST KINDA  
SPOOKY IN  
THERE.



WE'LL GO  
AND TALK WITH IT,  
SEE IF IT KNOWS  
HOW TO GET US  
BACK HOME!



AWESOME!  
THERE IS A TON  
OF DRIFTWOOD  
IN HERE!



HELLO  
IN THERE!

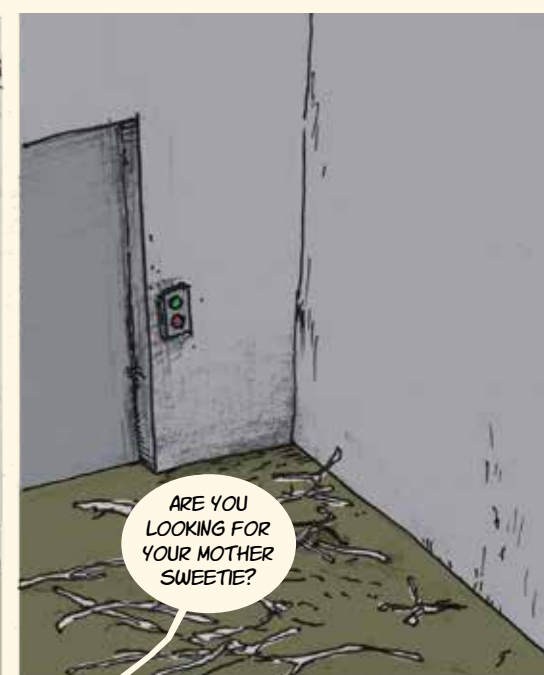
MARCO.

HONESTLY, WITH ALL OF THE DIFFERENT  
SONGS AND STUFF IT IS HARD TO KEEP TRACK.

I'M NOT PROCESSING ANYTHING.



HXLLX  
MXM!

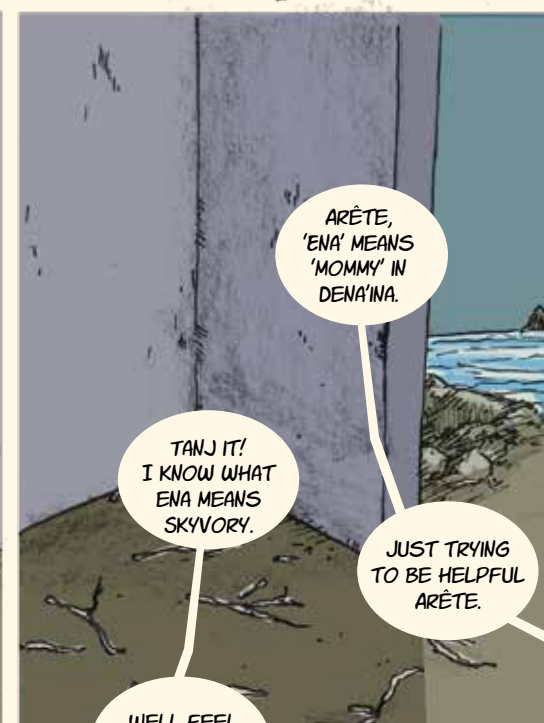


ARE YOU  
LOOKING FOR  
YOUR MOTHER  
SWEETIE?



LXXK XN  
THX SCRXXN  
MXM.

YXX!  
XRX MX  
XNX!



ARÊTE,  
'ENA' MEANS  
'MOMMY' IN  
DENA'INA.

TANJ IT!  
I KNOW WHAT  
ENA MEANS  
SKYVORY.

JUST TRYING  
TO BE HELPFUL  
ARÊTE.

WE'LL FEEL  
FREE TO STOP  
AT ANY TIME.

MARCO.

OH OH OH OH OH





OH OH OH

LXSTXN, XNX, X  
KNXW XT'S X LXT  
TX TXXX XN. X XM  
YXXR DXXGHTXR  
SHXNNXN.

X HXVX  
CXMX FRXM THX  
FXTXRX TX HXLP  
YXX FXND  
DXD.

X XM GXNNX  
GXVX YXX X  
SXC. THXT WXS  
X LXT, X KNXW.

OK. I  
AM...

OH OH OH

YAY! ARÊTE,  
YOU ARE AN ENA!  
GET DAH!

MARCO.



PXLX!

XNX!  
LXXX WHX XS  
WXTH MX!

HEY LOVE!  
MISSED YOUR  
FACE!

WHEN MIX TAPES MEET.

ANTHROME!  
HOLY SHIT!  
IS THAT REALLY  
YOU!

ARÊTE!  
WE ARE HERE  
WAITING FOR  
YOU!

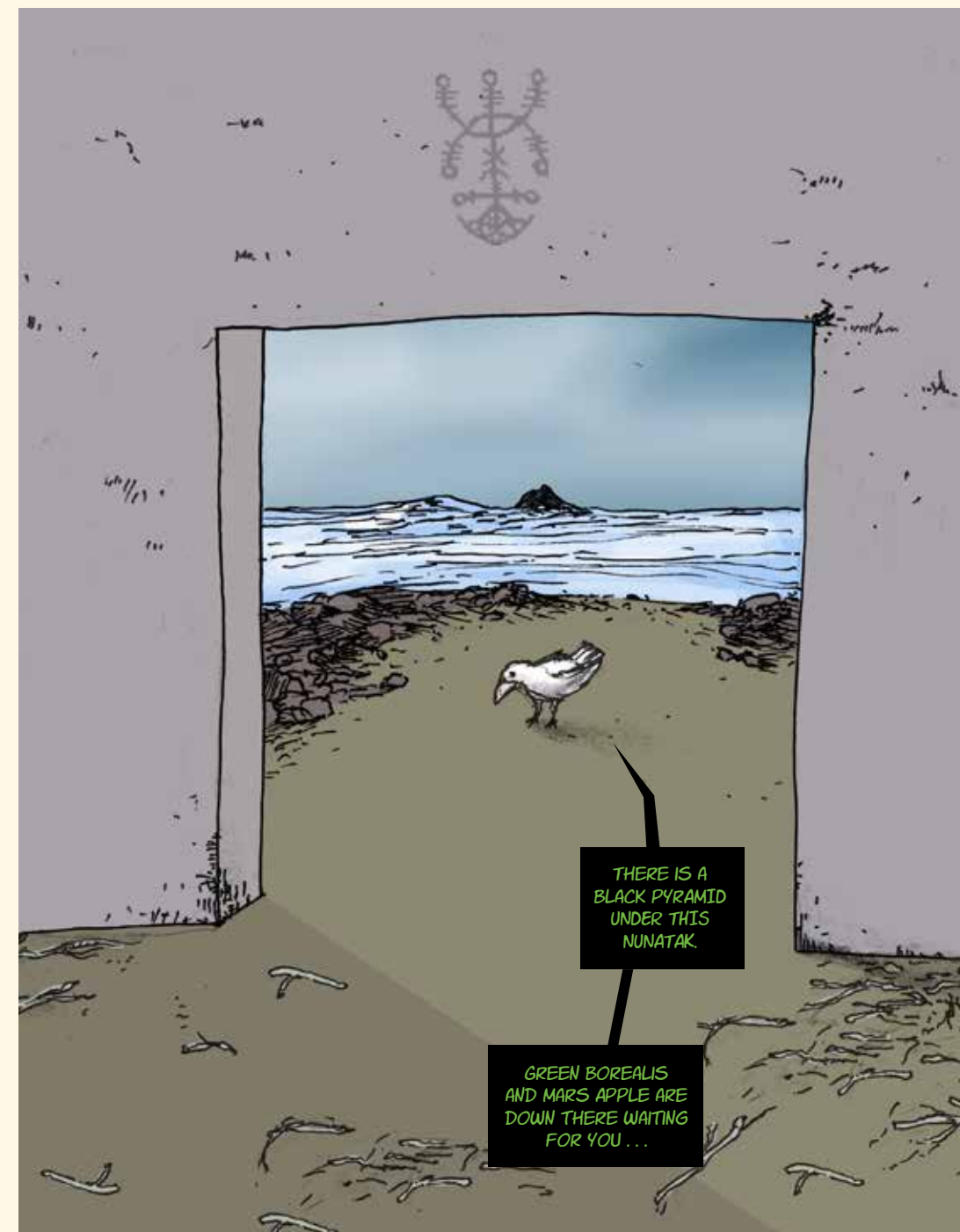
PXLX MX LXTTLX NXMXTDX.  
XNX LXST SXNDWXCH.





PEOPLE SAY THE FREEZING UP IS  
BECAUSE I HAVE GLACIER POWERS.

BUT IT IS DEFINITELY THE AUTISM.  
AND I GUESS I AM A MOTHER.



TO BE CONTINUED IN WINTERMOOT BOOK ELEVEN:  
THE CRYOPUNK ALMANAC EXPANSION PACK