

The PXE Teach-Shirt

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The Making-Of

TAKING
AN IDEA

AND RUNNING
AWAY WITH IT

Idea by Trey
Darley (@treyka)

4 "Design is TQ in a
Fremen stillsuit on
the front, on the
back the slogan..."

4 "... 'He who controls
the input validation,
controls the
universe. #langsec'"



Material Review

The Oh Shit Moment

1000 Words about One Image

THINK UNTIL
IT'S BORING,

THEN TRY TO
IMPLEMENT

Use The (Re)Source

- + Viewers will either not know Dune, or know it really well
 - + Stillsuits are well defined in both books and movies
 - + Visual references must be perfect to be recognized (or be embarrassments)
- + "That's easily drawn!"
 - + If the problem challenges you and amuses someone: Team up!
 - + Enter JB

Design Evolution

- + Required elements
 - + Stillsuit and slogan
 - + Facial shot of TQ
 - + Sandworm - it's Dune!
- + But what about LangSec?
 - + "Exploiting the Forest with Trees" (2010) by Meredith L. Patterson, Len Sassaman
 - + The birth of LangSec, based on X.509 research (2009)
- + Len - The LangSec messiah
 - + Cypherpunk contributing essential work to privacy and anonymity
 - + Fighting oppression & censorship

"Everything is cool when you're
part of a team."

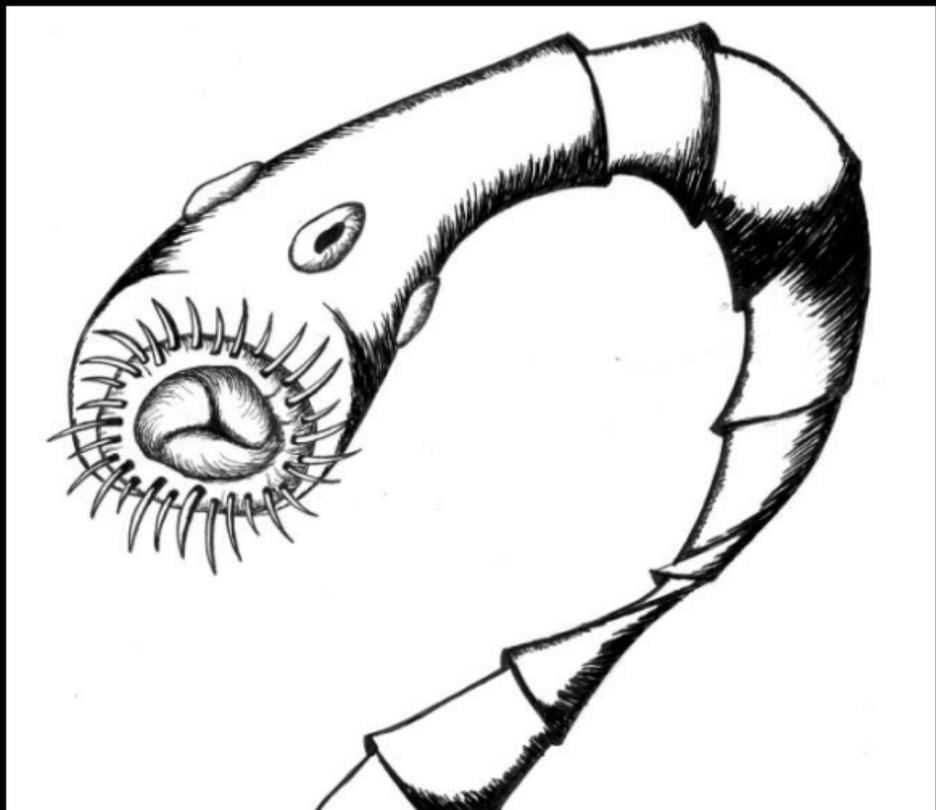
NATURAL BORN

ARTIST

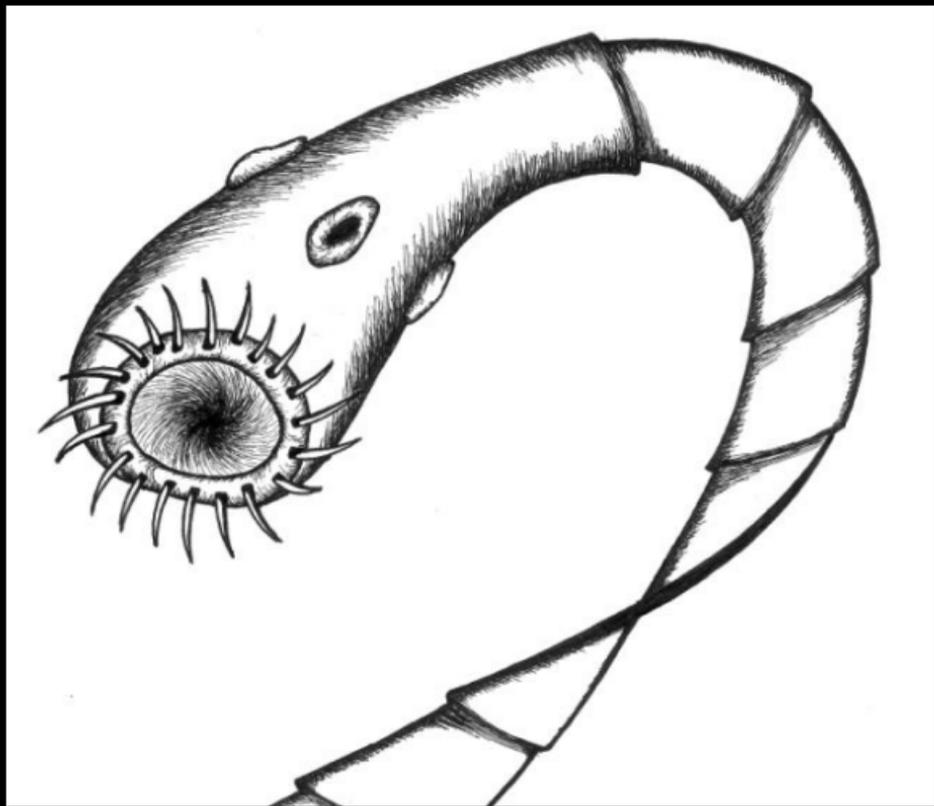
VS.

THE STUBBORN

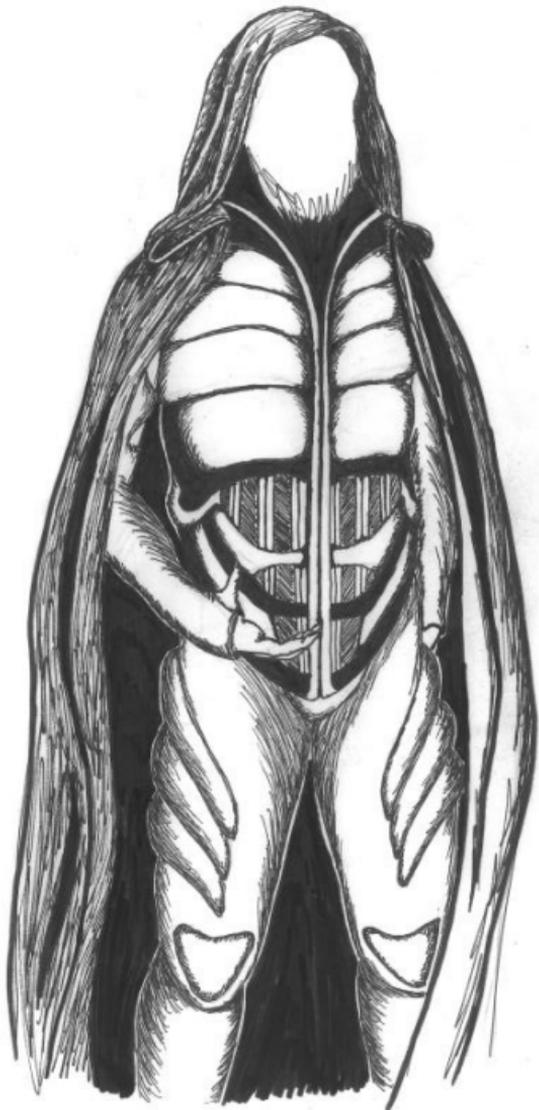
HOBBYIST



Shai-Hulud-Tape-Worm
Mutation and Artwork by JB



Shai-Hulud-Tape-Worm
Mutation and Artwork by JB



Stíllsvít
Jedi Cape



JS
05/2014

Leonard Harris Sassaman (1980 - 2011)

Adobe Photoshop



Memory could not be allocated for the activation process. Please close all applications and try again.

OK

Don't Even Ask!
JB & FX - Against All Odds



Arrakis
A LangSec Model

Representations of Principles

Internet is Spice

- ✦ Frank Herbert's "Dune" (1965):
"He who controls the spice controls the universe."
 - ✦ Spice is a rare earth element in Herbert's Dune Universe
 - ✦ Spice is required for space travel, human computing, religion, etc.
- ✦ Arrakis - the only source for Spice
 - ✦ Governance is delegated by the Emperor to one of the Houses
- ✦ Houses: Advanced Persistent Threat
 - A: Houses are high-tech
 - P: Ruling power is always under attack
 - T: Natives and ecosystem are endangered by exploitation and repression
- ✦ Sandworms are key to Spice
 - ✦ A unique system all of civilization depends on is exploited by entities who have no holistic understanding of it

Native Knowledge

- 4 Fremmen are the natives of Arrakis
 - 4 Stand up against occupying force, outnumbered and outgunned
 - 4 Understand the ecosystem and the role of the worm
- 4 By correcting their language, they adjust their thinking:
"He who controls the worm, controls the spice!"

Hackers are Fremmen

- 4 The Worm is a String
 - 4 Segments of same size
 - 4 Controls operations of the ecosystem
- 4 The Worm is the Tape running on the Turing Machine Arrakis
- 4 Fremmen can ride the Worm

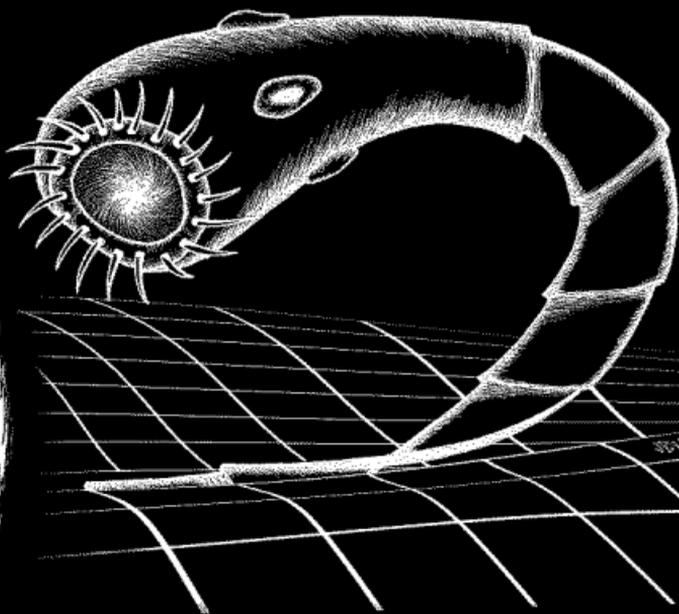


intentionally Failing
Information Theory

MESSAGES -
SOME MORE
SOME LESS
HIDDEN

Representations

- † Fremen: Victorious defense through native systematic knowledge
- † Worm: Fundamental unpredictable part of ecosystem, itself fragile
 - † If understood and respected, can be controlled to a certain extent
 - † Unexpectedly arises from the computing landscape
 - † Worms can be called by Fremen
- † Stillsuit: Conservation of resource
- † Chomsky Hierarchy in Len's hand
 - † Key concept in LangSec
 - † Used to tame and control the worm
 - † It's an egg, so Len uses big endian
- † Worm vs. Len = Black vs. White



HE WHO CONTROLS THE INPUT CONTROLS THE UNIVERSE

The Computing Landscape



This landscape had its share of tape worms running on it, and symbolizes a learning process, striving for systematic understanding of an ecosystem.

With Compliments from Phenoelit
PXE 0x7de

ENJOY
WEARING
OUR
TALK

 and FX