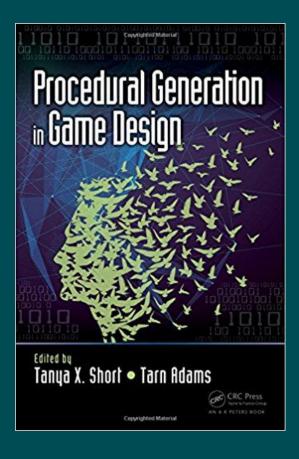


Tanya X. Short @kitfoxgames • @tanyaxshort





Procedural Storytelling in Game Design (2019)

Primary Sources

Emily Short (Spirit AI): @emshort

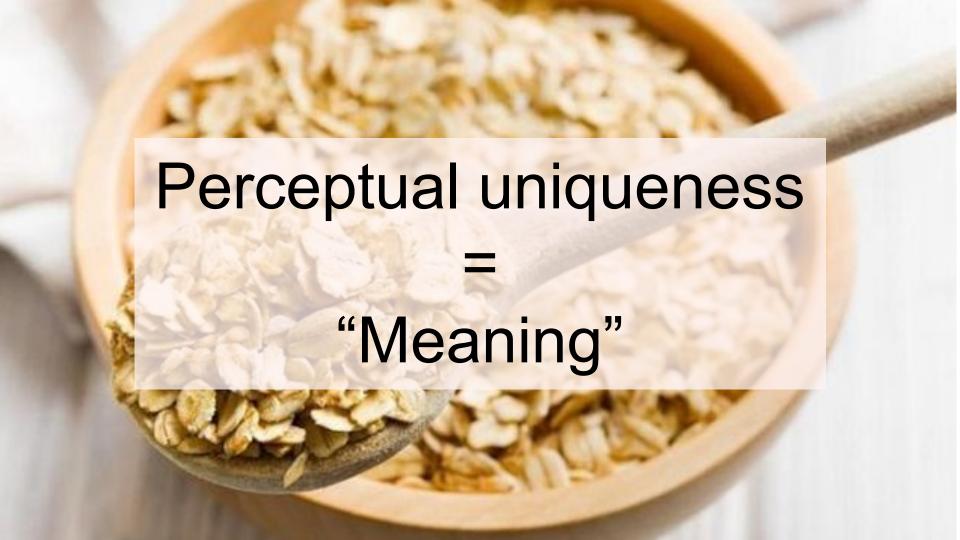
Jason Grinblat (Caves of Qud): @ptychomancer

A + B + C = ????

big + beautiful + smelly = ???

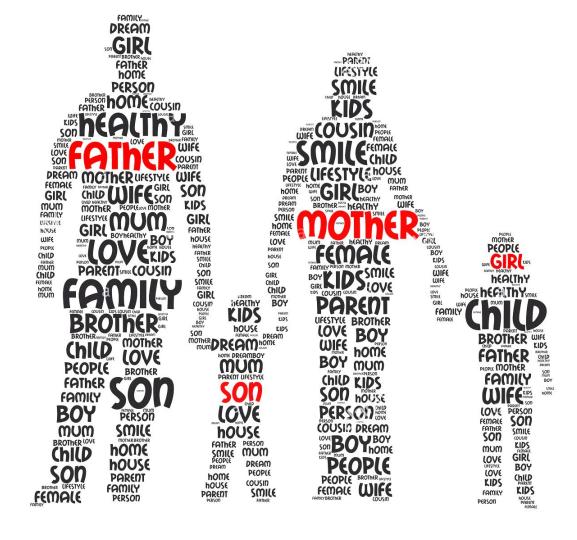
big + beautiful + smelly = NPC#4241?













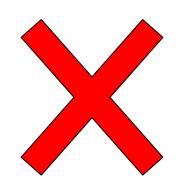
Big Smelly Beautiful Level 6 Archer
Brown hair
Angry at me
Likes Fish

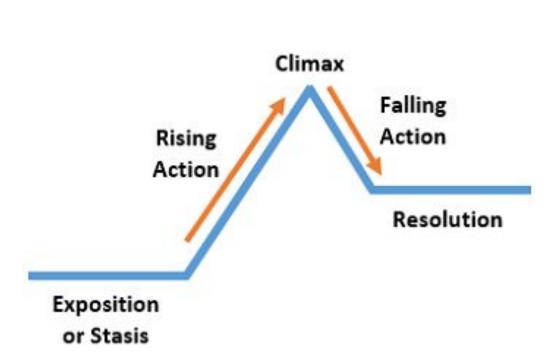


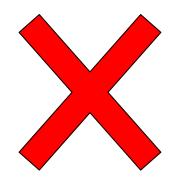
Oh yeah! Tim, I remember him

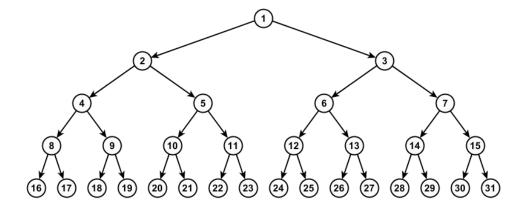
- 1. Build orthogonally
- 2. Create higher-order meaning
- 3. Surface meaning
- 4. Iterate with co-author(s)

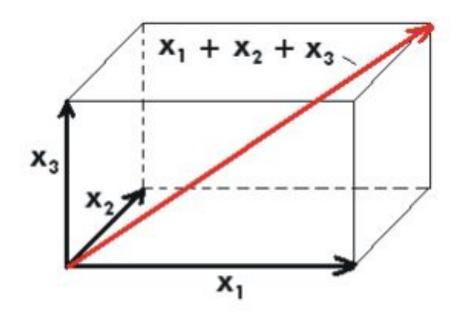
Build Orthogonally

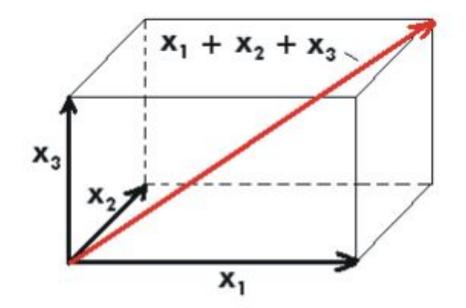








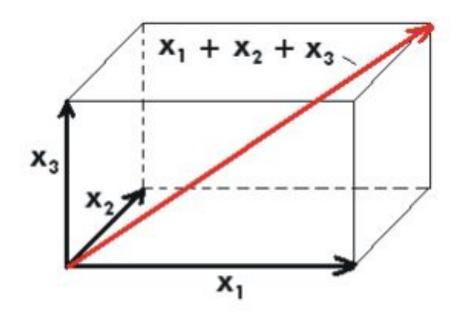




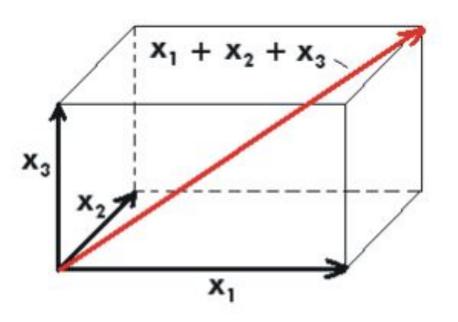
"Story volume"

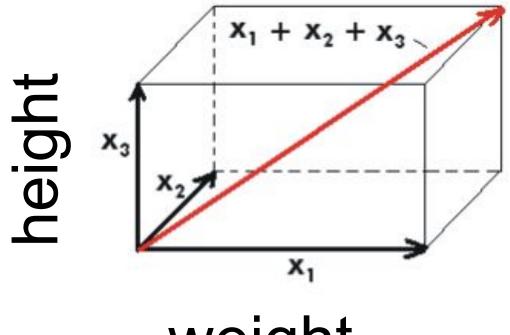
BUILD ORTHOGONALLY

- Project Horseshoe 2015



Tall, Short Heavy, Thin





weight

Flirtiness
Neuroticism
Imagination
Extraversion

Flirtiness
Neuroticism
Imagination
Extraversion

Romantic interest
Neuroticism
Imagination
Extraversion

Romantic interest Neuroticism Imagination Extraversion Romantic interest
Neuroticism
+++
Imagination
Extraversion

Romantic interest
Neuroticism
Imagination
Extraversion





The Gathering Convenes...
Who will be the Sacrifice this Season?





KAREL IOSEFKA

^▲ Disciplined?

*Impulsive (-20)



VASILISA CADWELL

∜> Full of Fervor?

? * Weasel (-20)



ZAYNA EFFERSON

**Ascetic (+15)
??????



CHESSA BLACKBORN

Lawful (+10)

Knows too much?



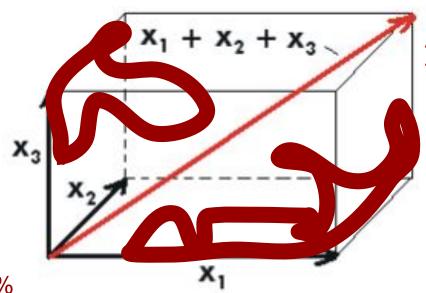
Argali the Ox

Ancient stories claim that Argali never stopped stargazing and eventually became a world-renowned astronomer, discovering more constellations than anyone since.

Then Argali spoke often of the importance of human comforts, delighting in good food and family.



outgoing = -10% solo video games owned +10% friends



Ambition = more likely to be hardworking

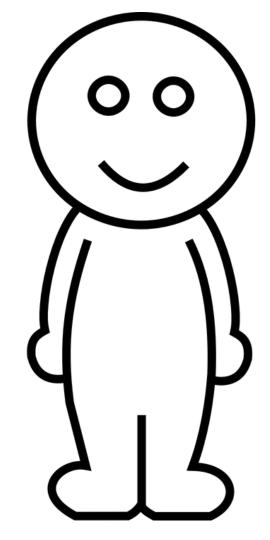
imagination = more likely romantic interest

Canadian = +500% apologizing skill

neurotic = more likely sweaty

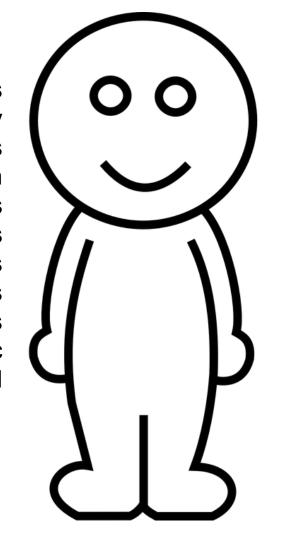
Create Higher-Order Meaning

Physical attributes
Personality
Behaviour
Occupation
Hobbies
Memories
Relationships
Opinions
Secrets
Character arc/transformations



HIGHER-ORDER MEANING

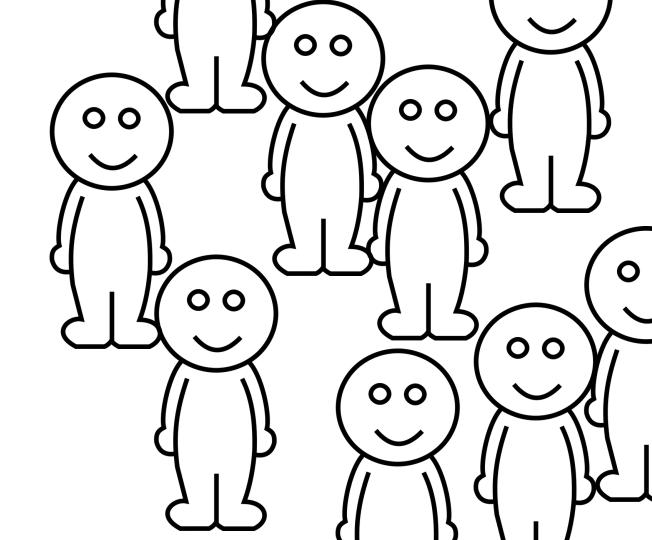
Physical attributes Personality **Current Status** Occupation Hobbies Memories Relationships **Opinions** Secrets Character arc Childhood

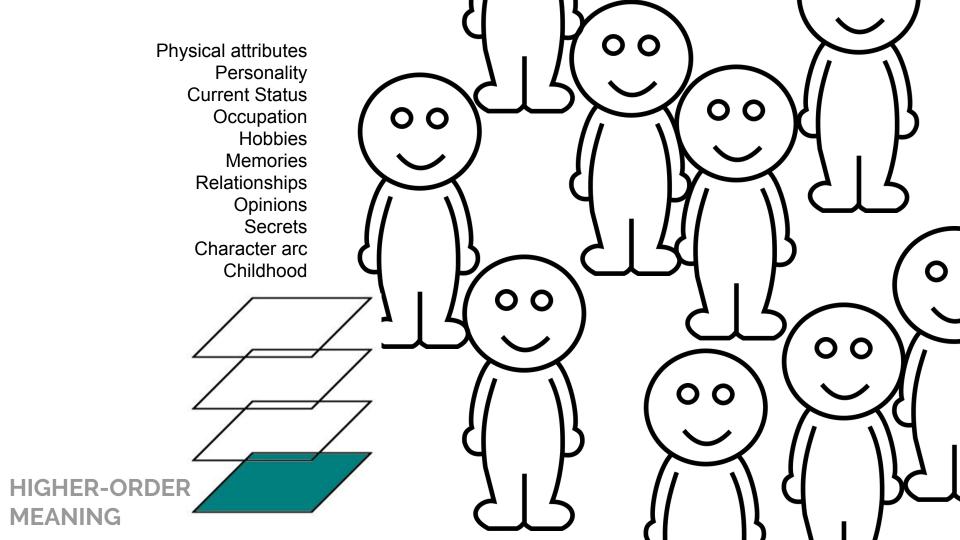


Tall, wide Outgoing, neurotic Flying a starship Pilot Plays video games Fond of home planet In love affair Enjoys political debate Stole co-pilot's lunch yesterday Slowly becoming jaded Loving older sister

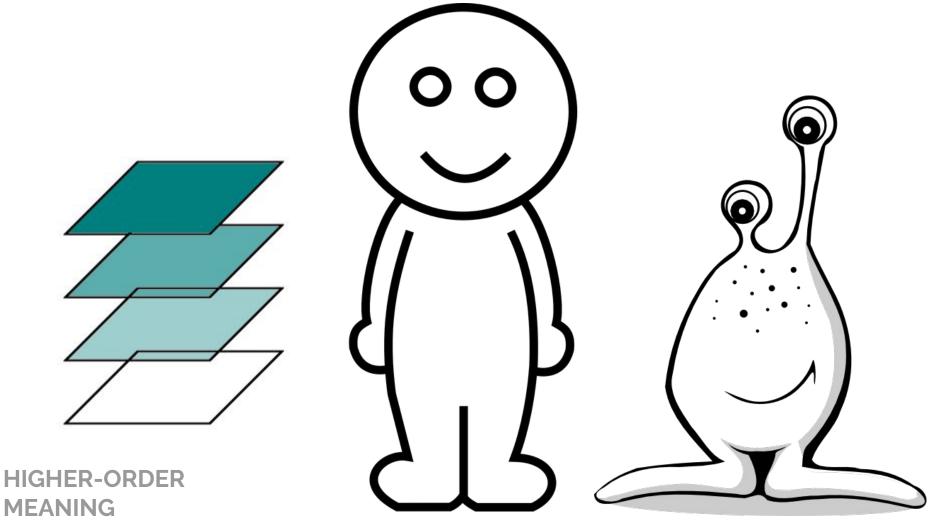
HIGHER-ORDER MEANING

Physical attributes
Personality
Current Status
Occupation
Hobbies
Memories
Relationships
Opinions
Secrets
Character arc
Childhood









MEANING

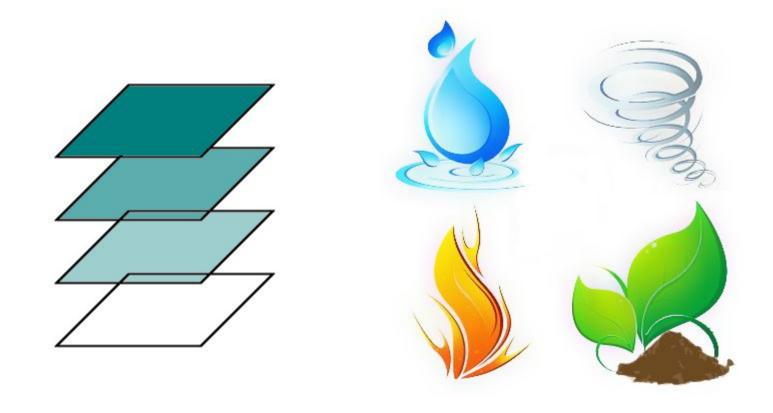


HIGHER-ORDER MEANING



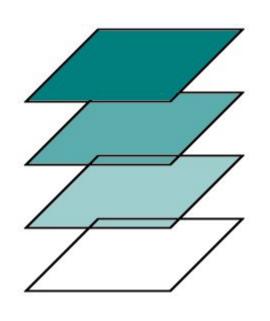






The Annals of the Parrigues

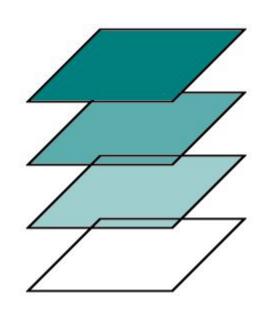
by Emily Short



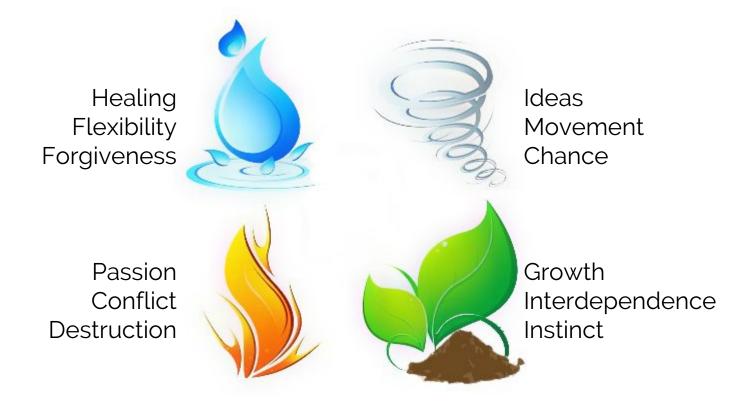
- Salt
- Beeswax
- Venom
- Mushroom
- Egg

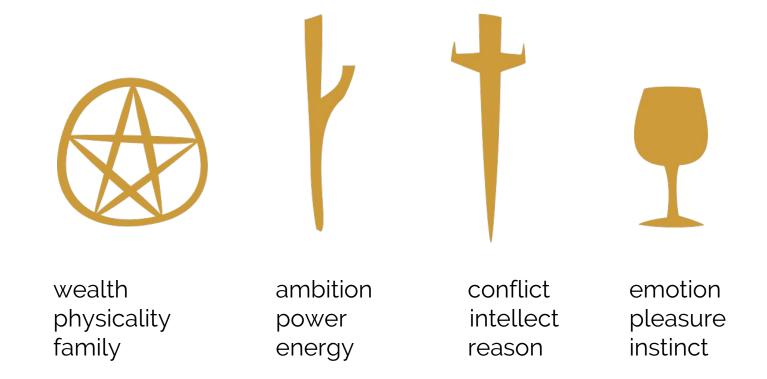
The Annals of the Parrigues

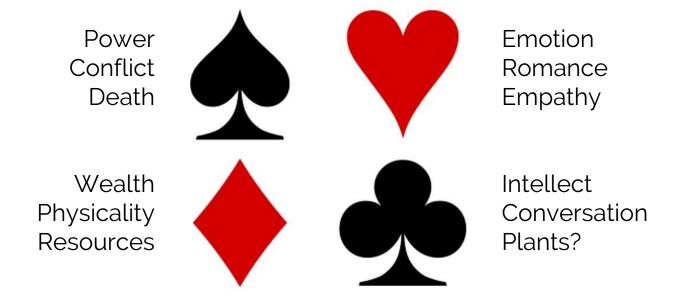
by Emily Short



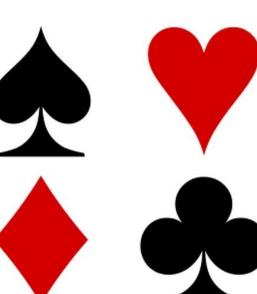
- Salt
- Beeswax
- Venom colorful, deceitful, serpentine
- Mushroom
- Egg



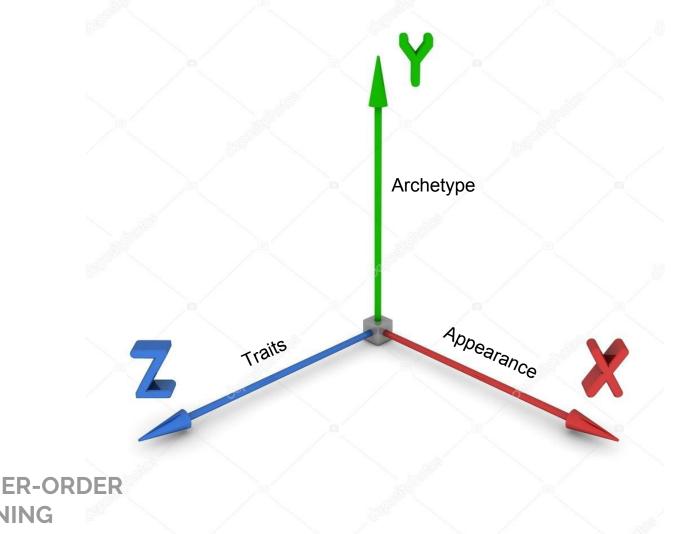




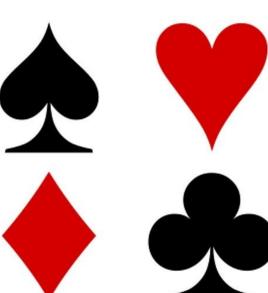
















Argali the Ox

Ancient stories claim that Argali never stopped stargazing and eventually became a world-renowned astronomer, discovering more constellations than anyone since.

Then Argali spoke often of the importance of human comforts, delighting in good food and family.





Surface Meaning First

Mehmet

Years of the desert have taken their toll on the body, but he commands your ear with his voice (2) like few other men, and you wonder which sovereignty he might've come to were he not born a moisture farmer.

Loved by the villagers of Joppa.

Disliked by urchins for ruining the festival of Ut yara Ux.

Disliked by unshelled reptiles for giving one of their kind an unfavorable horoscope reading.

Disliked by the villagers of Kyukukya for eating one of their young.

Equipped: woven tunic, steel vinereaper, sandals

Perfect----

Impossible, Neutral

Caves of Qud

(2015)

SURFACE MEANING

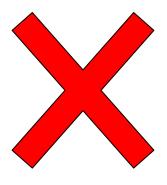
$$A + B + C = Tom$$



Greetings...

if	then
low level	"Pitiful newbie!"
set flag	"I remember you! You killed my father!"
multiplayer	"Ah, you brought friends!"
has object	"Nice sword!"

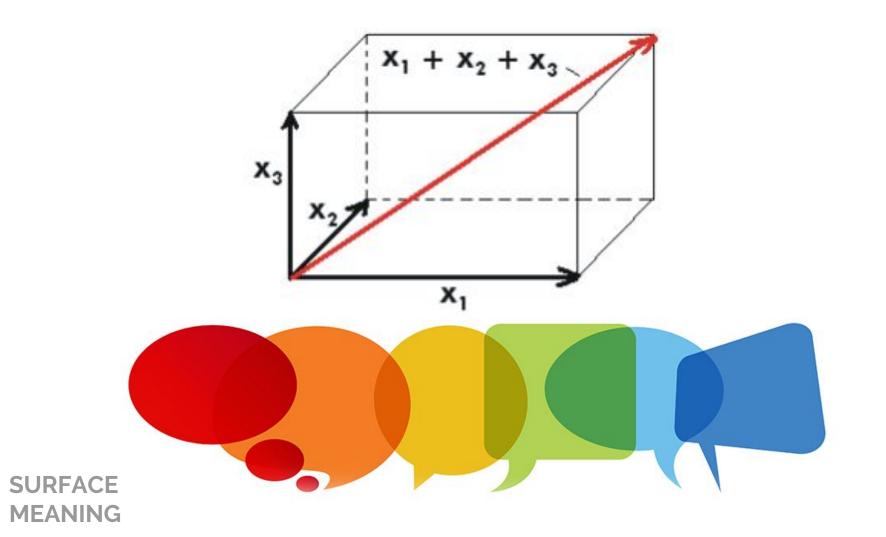
BUILD ORTHOGONALLY

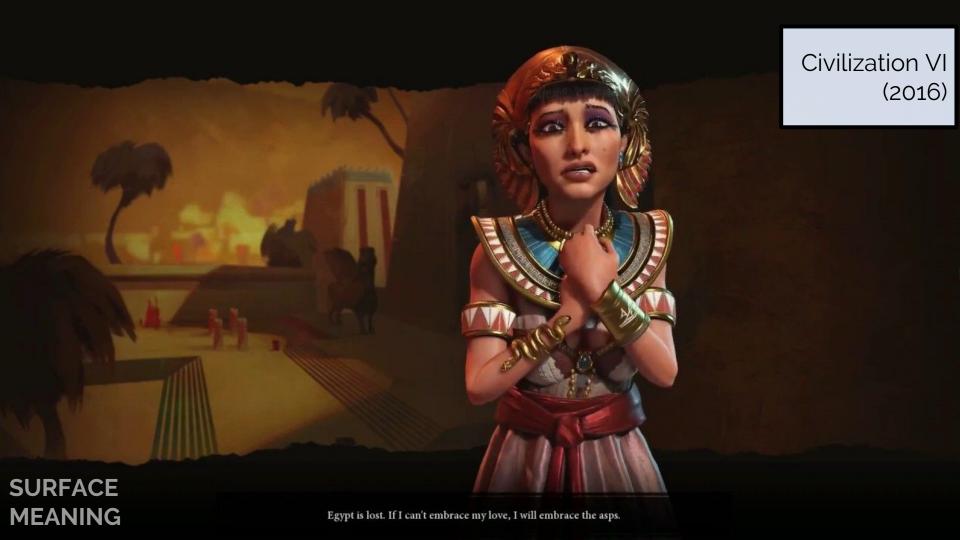


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low level	"Pitiful newbie!"
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multiplayer	"Ah, you brought friends!"
has object	"Nice sword!"

BUILD ORTHOGONALLY







Capture (04)



Massive Chalice (2015)



CLEOPATRA EGYPTIAN EMPIRE

Declare Surprise War Warmonger penalty: Moderate

Declare Formal War Warmonger penalty: Light

Make Deal

Make Demand

INTEL REPORT

Gossip Items: No New Items

Access Level: None

Our Relationship: (8) Denounced

Agendas: Queen of the Nile

Government: Oligarchy Cleopatra's Relationships (8)

GOSSIP

LAST TEN TURNS

Rumor has it that Egypt has progressed from the Classical Era to the Medieval Era

OLDER

Rumor has it that Egypt has just declared war on

Rumor has it that Egypt has progressed from the Ancient Era to the Classical Era.

Darkest Dungeon (2016)



The red









Base Stats













MEANING

Kadol Kilrudroldeth has been happy lately. He admired a fine fantastic dining room recently. He slept without a proper room recently. He admired own fine Bed lately. He has complained bedroom recently. He admired own fine Bed lately. He has complained be accomplained by the slept in a complete state of the slept in a complete st

He is a citizen of The Cooperative Sacks. He is a member of The Praised Canyons. I former member of The Alchemical Shields. He is a former member of The Mellow Coven. former member of The Decisive Mines. He is a former member of The Communion of Petals. He at Morber on the 8th of Malachite in the year 126.

He is sixty-four years old, born on the 5th of Hematite in the year 62.
He is tall. His eyes are jade. His extraordinarily broad tall ears have great lobes. His sideburns are clean-shaven. His long moustache is neatly combed. His long arranged in double braids. His very long hair is neatly combed. His skin is ecru.
He is incredibly tough, but he is very quick to tire.

Kadol Kilrudroldeth likes gypsum plaster, pig iron, schorl, the color ash gray, earrings and animal traps. When possible, he prefers to consume kakapo, yak cheese and beer. He absolutely detests purring maggots.

beer. He absolutely detests purring maggots.

He has a great feel for social relationships, a great memory, a sharp intellect, a words and an ability to read emotions fairly well, but he has a shortage of patience, po

He occasionally overindulges. He is never optimistic or enthusiastic about anyth isn't given to flights of fancy. He likes to try new things. He is willing to comprom others. He is modest. His voice trails off when he is thinking about something. He needs

A short, sturdy creature fond of drink and industry.
SURFACE

to get through the working day.

MEANING





Name: Choi Young-jae

Security guard Strict discipline Shy



Name: Choi Young-jae

Security guard Strict discipline Shy

Relationships

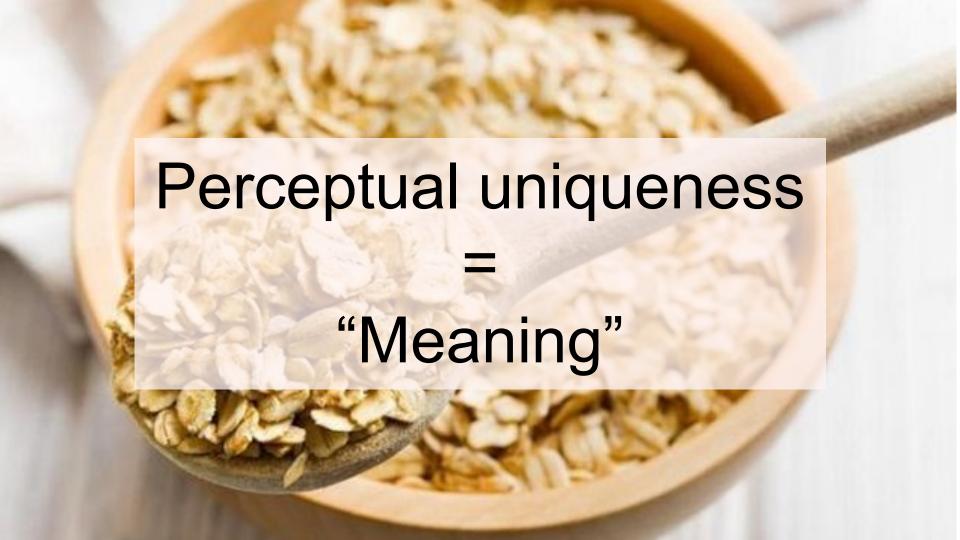
Childhood: ???

Secrets: ???

SURFACE MEANING



Name: Choi Young-jae SURFACE MEANING





$$A + B + C = Tom$$

 $D + E + F = Taika$
 $A + D + C = Zoe$
 $B + E + F = Hild$

$$A + B + C = Tom$$
 $D + E + F = Taika$
 $A + D + F = Zoe$
 $B + E + C = Hild$



(2017)

SURFACE MEANING



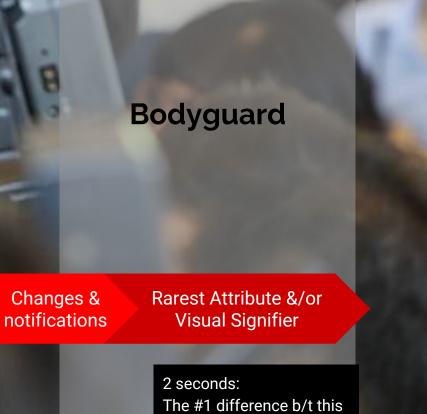
NEW: Social Media sensation (Fame +100)

Changes & notifications (if any)

1 second: Changes since last viewing/meeting

SURFACE MEANING

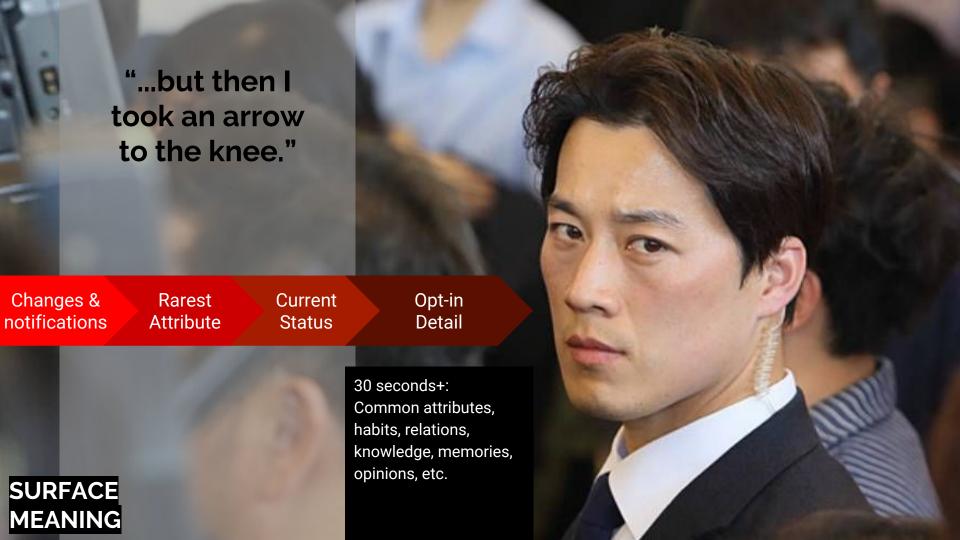




SURFACE MEANING The #1 difference b/t this character and others. (Ideally a constant, usable by player for future reference)

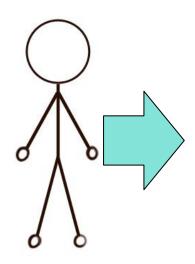


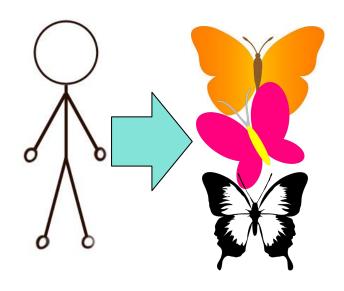




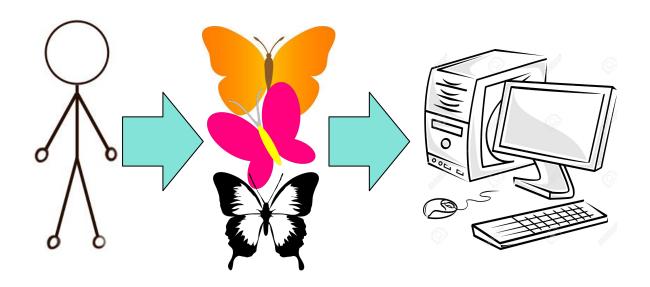


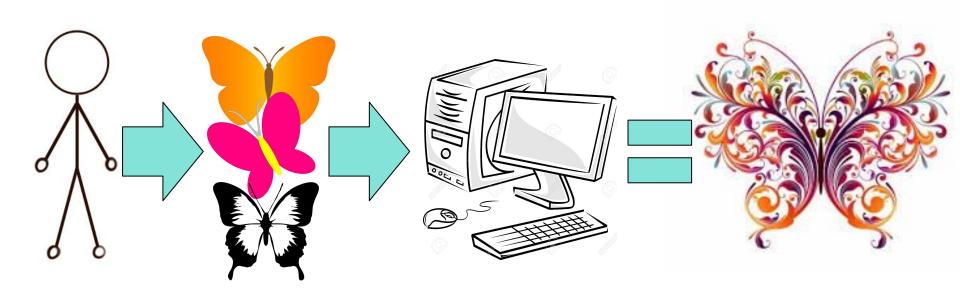
Iterate With Co-author(s)

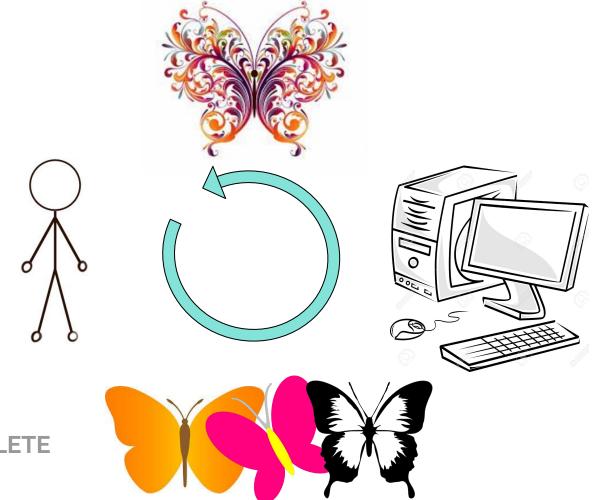




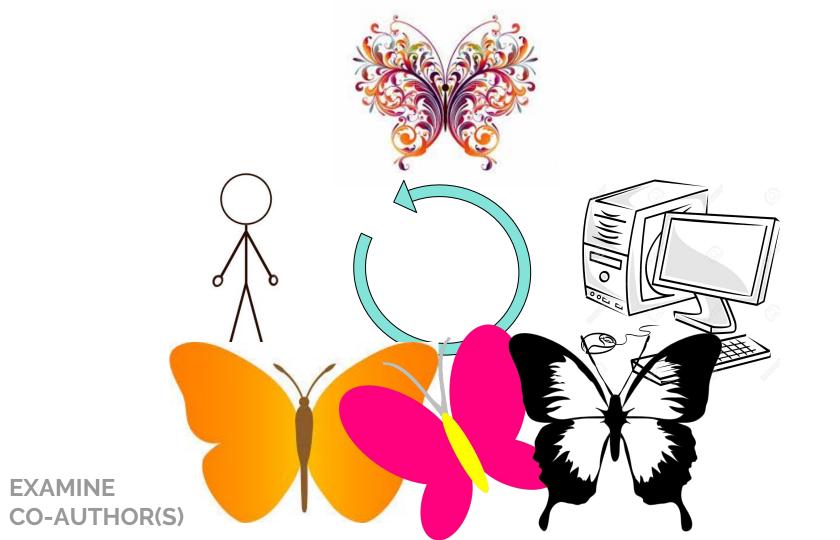








SYSTEM COMPLETE != ALPHA



The Garrulous

Gar RUlilty is an effusion of prolix and unpremeditated speech. The garrulous man happening to sit beside one with whom he has no acquaintance, begins by naming the various virtues of his wife: then he says that last night he dreamed a dream, which he narrates at length; this leads him to mention, one by one, the dishes that were placed within his reach at supper. By this time his tongue has gained speed in going; and he proceeds in a loftier strain: 'Alas!' saith he, 'how much more sinful are the men of our times than were their ancestors! and what a price has wheat fallen to now in the markets! and how the city swarms



with foreigners! By the time the Bacchanalia are well over the sea will be covered again with ships;

should it please Heaven, just now, to send rain, it would be a vast benefit to the wheats.'

Next, he announces his plan to farm his own land the coming year. 'Bu' times to get a living! I must tell you, being, as I perceive, a stranger, the displayed the largest torch in the late festival. By the way, can you tell

EXAMINE day I was sick—ahem! What day of the mont

CO-AUTHOR(S)

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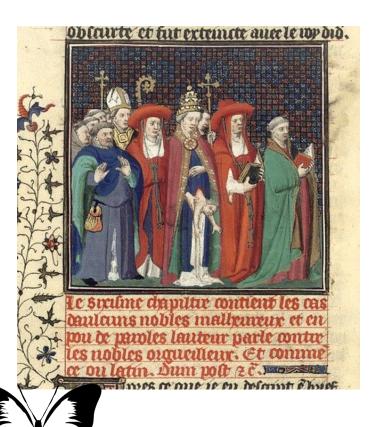


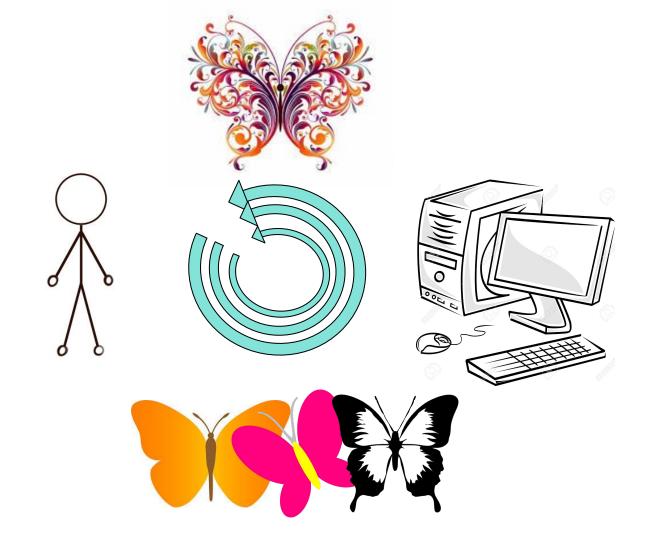
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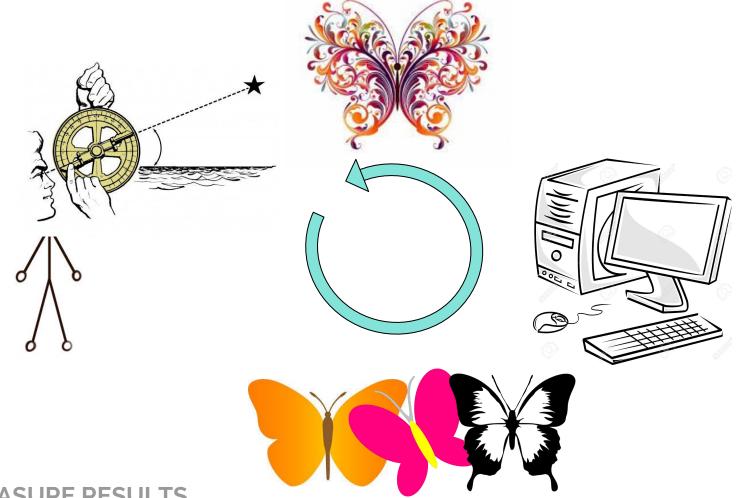
CO-AUTHOR(S)



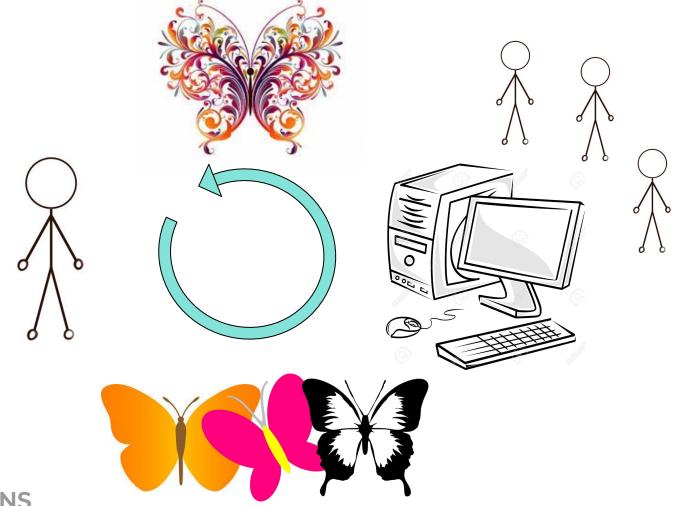




MEASURE RESULTS



MEASURE RESULTS



- 1. Build orthogonally
- 2. Create higher-order meaning
- 3. Surface meaning
- 4. Iterate with co-author(s)
 - a. System complete != alpha
 - b. Examine co-author(s)
 - c. Test often
 - d. Measure outputs
 - e. Plan exceptions









