Primary Research (#1) Y1 Final Project:

https://ashmg.design/posts/W5I1jfMy

Year 3 Project based on initial Year 1 "POSTVIRALISM" project

Website page about POSTVIRALISM and the POSTVIRALISM Hub on VRChat:

#realityconstruction #worldbuilding #social #communication #ability #equality #communicationdesign #interactiondesign #UX #UI #languagedesign #systemsdesign #3ddesign #unity #VRChat #virtualworld

POSTVIRALISM

a social movement, of my design, about making the pandemic count.

POSTVIRALISM is aimed at those affected by the covid-19 pandemic, and the challenging national lockdowns that occurred worldwide: and those with issues similar to those experienced in/around this period, regardless of when they started.

everyone has learnt a lot about mental health, mobility, and isolation, during the pandemic, and the importance of the internet as a tool for overcoming these issues has become overwhelmingly clear.

not everyone made it out of lockdown, and not everyone will.

but by utilising, inventing, and experimenting with, computer-aided forms of communication and presence, many of us can expand our existence far beyond the walls of our residence, and our previous circle of physical, mental, and social ability, creating a cultrue that explores and welcomes alternative forms of communication and interaction - existing and new forms.

POSTVIRALISM has a specific focus on those with difficulty leaving the house, or communicating and socialising, for ANY reason.

we hope to utilise digital platforms, alternative communication methods, kindness, and tolerance, to enrich the lives of such people. to further the movement, I have built an interactive online world,

occussible in both VR and PC, a hub for these people to congregate, relax, play, and even heal. It features a two-user UI, allowing participants to communicate in a 122-word logographic language of my own design, placing people of all communication styles on a level playing field.

POSTVIRALISM argues that worlds like these are real, and that these forms of communication are just as valid as any other.

the movement's goal is to seize this exciting new window of awareness into all of the aforementioned issues and more, using it to come together and compassionately form a brighter future, where such people feel deeply supported, included, and understood.

WHO IS IT FOR?

POSTVIRALISM is not just for those affected by the virus directly - i.e. the poor victims who have tragically lost their lives to covid; victims of the debilitating sickness; the bereaved - but also for those affected by complications such as "the long covid".

it is equally for those who have suffered mental health damage,

trauma, and domestic abuse due to the lockdowns and restrictions.

It is about those who have struggled with similar issues before the

pandemic, and those that will continue to struggle with new issues after.

to repeat: POSTVIRALISM has a specific focus on those with difficulty leaving the house, or communicating and socialising, for ANY reason.

this includes but is not limited to

/ people with disabling bodily illnesses, or conditions that limit energy

- including CFS/ME, post-viral fatigue, "long-covid", and other

"spoonies" - including people with more immediately life-threatening illnesses, such as heart disease and cancer

/ elderly people

/ people with physical impairments/disabilities

-such as mobility impairments

/ people with mental disabilities

/ people with mental health problems (not just the palatable ones that get all the press)

/ people that are neurodivergent

-including Autism, AD(H)D, Tourette's, and Schizophrenia

/ people with different communication/interaction styles and methods

-including the large community of mute people on VRChat

POSTVIRALISM world images show original world functionality:

-Natural setting aided by ivy on walls, plants sprouting through the ground, including large tree centreplece, creating an overgrown look; plus fake window / porch opening up onto video of a forest with forest sounds, to create the appearance of a forest view - placing the digital cyberpunk world within a natural setting.

-forest sounds (including birdsong) tie all the natural elements together, building a strong sense of presence

 -Video-window-porch view video player can be replaced with any youtube video, for communal viewing parties

-Button toggles video UI, to create "cinema mode"

// ° // PROJECTS // VIRTUAL PROJECTS // SPEAKERS

// TIMELINE

In tEr fes: A boundary across which systems communicate.

a surface forming a common boundary of two bodies, spaces, phases or regions.

the place at which independent and often unrelated systems meet and act on or communicate with each other <the man-machine interface> the point at which communication between machines or systems can be connected.

the means by which interaction or communication is achieved at an interface. A device to interact or communicate with another system component.

the point at which the operation of different systems or the interests of different groups overlap.

a situation, way or area in which two things or groups can come together and have an effect on each other.

the overlap where two theories or phenomena affect each other or have links with each other.

a boundary or point common to two or more similar or dissimilar command and control systems, sub-systems, or other entities against which or at which necessary information flow takes place.

the communication between a calling program and a subroutine. the physical or logical connection between a computer and the user, a peripheral device. or a communications link.

a program that controls a display for the user and that allows the user to interact with the system [syn: (user interface)] graphical user interface: (GUI) a computer program that enables a person to communicate with a computer through the use of symbols, visual metaphors, and pointing devices. The GUI is now the standard computer interface, and its components have become cultural artifacts, the equipment or programs used to communicate between different systems or programs. Hardware and associated circuitry that links one device with another The link between parts of a computer system, or between two different systems varies from a simple cable connection to an "intelligent" device which translates protocol. An interface can be between hardware and hardware, and ardware and software, and human and computer [syn: (port.)]

Port: (Math.) A process of demonstration in which a general truth is gathered from an examination of particular cases, one of which is known to be true, the examination being so conducted that each case is made to depend on the preceding one: — called also (successive induction).

Surface \Sur"face`\, n. [F. See {Sur-}, and {Face}, and cf. {Superficial}.]

1. The exterior part of anything that has length and breadth; one of the limits that bound a solid, esp. the upper face; superficies; the outside; as, the surface of the earth; the surface of the body.

"The bright surface of this ethereous mold."

"The easy menu interaction views cooked data through predefined windows"

FI Iblis

interface-explorer//shared boundaries (no date). Available at: http://interface.to.or.at/in_ter_fes.html (Accessed: 2 November 2022).

[Presentation for my "Professional Practice" brief, Presentation title: Exploring the intersection of emerging interfaces and sensory/linguistic expansion1

> Market Service Appearance to the process and their Market American control of Warrier a Service and American Control of Service a Service and American Control of Service and American Control According to a differ fining from Stage" - a minyary unity of the further country. "Such design, a transmitty unique of the as a 1 from the vary seed of the production design of the fining fining of the fining of Total process
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>
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Sat there in the silent company of my digital reflection , one hand boring a hole into the rupturing spongey mantle of my desk chair, I coaxed its clammy twin toward the trackpad, drew a deep breath, and clicked "join meeting".

47 minutes and 53 seconds later. I breathed out, stood up, and laid down on my bed, a real designer.

For my professional practice module, I chose to explore the topic of the intersection between emerging interfaces, and sensory and linguistic expansion, with a focus on Brain-Computer Interfaces and haptic interfaces.

The factoring a consequency register is a surface register of any other a power series of source. But

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Input (#5) / Select tile with attention \> too fast? \> branching modules |||> WHy BCI? > inventive grammar techniques |||> / Beware novelty Modes - general / Can other interfaces work better? \> depends on function \> ability tech for locked-in patients = BCI superior / New senses > haptic > magneto-reception > others \> T#5 BCI pros Keyboard pros / Fluid / BCI |||> > P-300 / Subconscious (P-300) Selecting > Multi-modal = combine with below / Selecting in context of VR \> better than trying to type on keyboard in VR using clunky controllers |||> Body: / Heart rate \> increased HR/BCI arousal when arrive at certain morpheme = selection >||| Can we use both? \> additional new keyboard/selector interface WHILE in VR using BCI? \> stimulates branching of nodes |||> > pupilometry Hardware / Physical keyboard Immediately accesible
 not to those with problems pushing buttons
 part of the ethos of this was ENABLING LEVEL PLAYING FIELD \> for testing phase?
\> could test with Goldsmiths Students more immediately
\> time sink > physical buttons can't AUTO-UPDATE with EPD (Emergent Participatory Design)
\> screen buttons PRODUCT) \> can PURCHASE physical KEYBOARD ACCESSORY / Computer / Mobile app/web applet / could even add suggestions (as limited to 122 ish [Diagrams of stacking radial map menu model for selection of tiles. First a menu of 5 example characters atm) for more complex compound words categories is shown: "concepts, emotions, objects, verbs, grammar". categories is snown: "concepts, emotions, toglects, vetus, grammar with a radial map menu with tategories "pleaseand" and "unpleasant". When "pleasant" is selected, two further example categories are expanded: "surprised" and "happy". When "happy" is selected, this expands into the categories "optimistic" and "confident", as well "content" (which is shown a synthesis suggestion for the combination of two existing tiles: "happy" and "peace". \> create a 2nd lexicon of "suggested words"/compounds

Output / feedback (#6)

Learning how to control the device/use BCI / See brainwaves in real time in VR/V.E (virtual environment)

Using the language

/ Feedback when selecting

/ Feedback of other person's communications - display of messages

> one way communication \> patient to carer

> two way communication \> inter-patient > commercial/recreational \> VRChat etc

Modes - general (can apply to either above)

/ New senses
> haptic
> magneto-reception
> others
\> T#5

Grammar (#7)

>||| Inventive/Experimental Grammar

/ Tiles for nouns

\> grammar = use other input

- \> emotions
 - > controller movement
 - > eye tracking > gestures
 - > face tracking

/ What grammar functions do we have?

T#1

T|||/ Fill in existing grammar functions of EmojiLang

/ Sum up grammar functions of English and other languages / List desired grammar functions / Experiment with grammar function methods

Increasing flow using language/interface / Detects increased arousal when eye-over desired morpheme or node/category / Self-improving? > Software trails 2 or more different methods subsequently > better one used > most trails 2 or more different methods subsequently > most used nodes increase in size proportionally > most used nodes increase in size proportionally

Tutorial (V#9)

Harry tutorial:

I deas from others' projects/group feedback before mine:
/ Garreick - Software vs hardware

Response to mine:

Chereie: Sky - Children Of THe Light
People who aren't friends in th game use the body actions -

/ Noam Chomsky - language - thought and language

/ Do we need symbols \> symbols vs words

/ ideaspace-

/ symbol poetry -explore meaning

Structure (#10)

/ alchemy

\> "an alchemy of language"?

/ breakdown of each character

Uses:

>proposal of universal writing system

> define writing system
> quick examples of others
> note qualitites > why mine fulfils this definition Research / essay questions (#11)

/ what is possible for the future of language within the context of the digital realm?

/ what affect will/could technology have on the future of language? / how far can we take/will evolve naturally language using technology?

/ How far can we take the concept and practice of language using technology? How will language naturally evolve, as a response to existing and emerging technologies, and how can we shape this intentionally, using existing technologies and creating new ones?

Touching on natural spoken language, but with a focus on the exploration into writing systems.

I would like it to be deeply connected to my proposed Emoji/VR language.

I would like to explore Jaron Lanier's concept of a VR avatar-based language, and explore how VR environments/individual user perspectives of them could also be manipulated on the fly, to accomodate new forms of communication, adding flavour with manipulation of colour and actual forms in the environment.

I would like to explore how AI could be used to generate 2d models or modifications of avatars, on the fly, to accompany speech, to aid in communication, adding flavour/tone, but also perhaps to literally convey concepts on its own.

How tese technologies and languages could evolve emergently as a form of Participatory Design

Directions:

/ Can we chase up Jenniffer form Senselab and the other similar labs?

\> Can I help by sending an email/in response to Duncan introducing us via email?

/ What can I read by Stiegler about how humans organicity can't keep up with technology and how can I integrate other readings in the area of neuroplasticity in a positive way as an answer to this to positive manuary / biohacking seems or years and the seems of the

As you can see in my COntext REview (https://docs.google.com/document/d/1nhlz1PvylewUUvwYhDR_n9CChfkETFovv\$hMdDu/gkTs/edit) the main ideas 'rm GENERALU' interested - should these intersect well with the above, are as follows:

/ Collective consciousness / The Collective Unconscious / archetypes

/ The Collective Unconscious / archetypes
/ Gaia hypothesis
/ Hive mind meta-thoughts of cultural movements
/ Egregores
/ Hegel
/ Bergon's Qualitative Multiplicity
/ Foucault - social spaces - internal logics
/ Levi-Strauss - unity of contradicting forces as shown by multiple
modernal positional being seen as true simultaneously
/ General positionalemist relativist bis aka anthropology
/ Idealism

Intrinsipal at actions being seen as the similarieously
/ General postmodernist relativist bs aka anthropology
/ Idealsm
/ Ideaspace
/ Ideaspace
/ Ideaspace
/ Ideaspace
/ Supervenience Theory / supervenience in general
/ Supervenient dimensions (e.g. Ideaspace)
/ Emergence
/ Neuroplasticity
/ Sensory expansion
/ Digital voice of Individuals
/ Spirituality and paganism
/ Chaos magic
/ Parallels between magic and technology - technology, branding, language, REPRESENTATION ITSELF as a form of magic
/ Models and representation
/ The ontology of symbols
/ Structuralism
/ Systems

/ Systems
/ Democratisation of communication
\> neurodivergence
> cultural/linguistic barriers

/ Emergent participatory design

/ How far can we take the concept and practice of language using technology?
\> how far can we take the concept of language using tech?

ication" - as allows other forms - esp telepahically and - think AI latent space category communication

\> how far can we take the practice of language using tech?

How will language change, as a response to existing and emerging technologies?

Existing Technologies:

/ existing technologies that will affect GENERAL LANGUAGE

\> how can we shape this intentionally?
\> biohacking
\> sensory expansion

/ existing technologies that will affect GRAMMATOLOGY/WRIT-ING SYSTEMS evolution

> emojis
\> how will this happen naturally?
\> neuroplasticity
> culture

\> so far > going forward

\> how can we shape this intentionally?
\> biohacking
\> sensory expansion
\> so far

· so far \> Participatory Design

/ existing technologies that will affect SPOKEN LANGUAGE

volution
\> how will this happen naturally?
\> neuroplasticity
> culture

\> so far > going forward

\> how can we shape this intentionally?
\> biohacking
\> sersory expansion
\> so far
\> Participatory Design
> other?

> going forward \> Participatory Design > other?

Emerging Technologies:

/ emerging technologies that will affect GENERAL LANGUAGE evolution

volution
\> how will this happen naturally?
\> neuroplasticity
> culture

\> so far > going forward

\> how can we shape this intentionally?
> direct design
\> biohacking
\> sensory expansion

designing for emergence/evolution
 neuroplasticity
 culture

\> so far \> Participatory Design > other? > going forward \> Participatory Design > other?

"Touching on natural spoken language, but with a focus on the exploration into

Intentionally Designed Technologies:

creating new tech to shape language

\> previous attempts

\> biohacking \> sensory expansion

\> intentional affects

> direct design
> biohacking
> sensory expansion

> designing for emergence/evolution
> neuroplasticity
> culture

\> so far > going forward

> how evolve naturally? \> neuroplasticity > culture

\> so far > going forward

Is new tech we can create

\> biohacking \> sensory expansion

> new languages

\> Emojilang Keyboard
> Emojilang BCI keyboard
> VR language
> avatar

> avatar > abstract > VR language with AI graphical representations spawned

|> what type of communication? > direct communication

> direct communication
> flavour/tone
\> important role of Emojis today
> how?
\> environment
[use the semiotic forms/ot

Design as Magic essay] - T#9
\> colour
> texture
> shape

> user \> perspective

> avatar \> colour > texture > shape

> environment \> colour > texture > shape

> generated forms \> colour > texture > shape

\> intentional affects

> designing for emergence/evolution
\> neuroplasticity
> culture

\> so far > going forward

|> how evolve naturally? \> neuroplasticity > culture

\> so far > going forward

T#9

See Design as Magic essay for semiotic forms and other categories for this bit

Harry tutorial 2 (V#12)

Harry tutorial:

hARRY 2:

FOr Review 5th ish Committment to actions, forms of realisation of my idea that allow me to

Test it - idiot
Get other people to use it
See how others cope with it
See how it changes the way they think etc
Standardized feedback form - research

\> questionnaire Contact Harry's 2nd year

Background reading on linguistics Emoji books

Read the papers recommended by that person Chat to her the professor Joanne Long check ittt

- Research other conlangs

Inter language communication attempts outside of language

Sign language

Long term goals (#13)

Long term goals: / Interview Sonja Lang - Toki pona creator / Interview other conlang creators

/ pro-moji movement

Notes on writing systems and Emoji (#14)

logogram:

en character that represents a word or morpheme

https://en.wikipedia.org/wiki/Logogram

pictogram:

graphic symbol that conveys its meaning through its pictorial resemblance to a physical object https://en.wikipedia.org/wiki/Pictogram

ideogram: graphic symbol that represent a graphic symbol that represents an idea or concept, independent of any particular language, and specific words or phrases https://en.wikipedia.org/wiki/Ideogram

/ often by combining pictographs

Daniel, M. (2017) The Serricits of Emily. The Sine of Visuals Language in the Age of the Internet

Associated in Enter: (Mooks google.co.uk/)

alphabets:

/ set of "graphemes" (letters - e.g. "n" or "g") stand for "phonemes" (speach units - e.g. "ŋ")

linear - directional (other types less so as not phonetic)

/ pictographic first

\> later evolved into logographic, ideographic, alphabetic systems

/ 1,000 BCE - switch to alphabets
\>Marshall McLuhan (1962) - first treu cognitive paradigm shift in human history
\> marks migration from tribal societies to first civilisations
\> became dependant on written transactions and doctuments
\> setablishing foundations
\> enabling survival/workability as a systemof communal life

Future possibilities:

/ 2nd paradigm shift (after pictographs> alphabets) to hybrid writing system \> pictographic-logographic + alphabetic | hybrid writing system

Notes on Emoji - i:

/ emoji etymology: Japanese - "e" (picture) + "moji" (letter, character) = "picture word"

/ Uses: from Advertising, to political campaigns

/ the Print Age imposed exclusive use of alphabetic writing \> Internet Age encourages diff modes of writing \> visual and audio > use in tandem with scripts (alphabetic and non) \> blended writing system

As a writing system: >Logographic and pictographic

/ LIKE EMOJILANG their "base iconicity can be expanded to include other modalities as the situation might require"

le.g. hand emoji- pictographic emoji
 le conic use - pictogram - moon
 le indexical use - ideogram - night

/ Race - colour - yellow obviously "stylistic ploy to remove recognizable facial features associated with race or ethnicity."

/ Current usage - providing nuance in meaning and tone
\> "reinforce, expand, annotate the meaning of written communication
\> usually by enhancing the friendliness of the tone,
\> or else by adding humorous tinges to it"

\> study participants - "why do you add emoji to your text messages?" \> "to make them fun" \> "in unison" \> add "uterance meaning" to written text

Existing Emoji keyboards and Emoji languages (#15)		
Emoji keyboards		
/- exist?		
Emoji Languages		
/Joe Hale - Emoli Language?		

Evens, V. (2017) The Emoji Code: The Linguistics Behind Smiley Faces and Scaredy Cats. Picador. Available at: https://books.google.co.uk/books/?id=f1inDwAAGBAI.

/ translated Alice in Wonderland and Peter Pan into Emoji

/ "crypto-semantics"

Refining-analysing the original keyboard - 1 (#16)

#Refining-analysing the original keyboard - Test 1

```
TESTS WITH ELLEN/SAYURI:
/
```

Existing attempts at universal communication (#17)

A History of Writing - Steven Roger Fischer

\> visual information and verbal info = different pathways

> images with text undoubtedly help convey complex ideas better

> better/clearer > more memorable/recallable

\> car: speedometer, odometer, fuel gauge, battery indicator, seatbelt sign, radio programme,

m \> some want to extend now to a global visual language

\> argue would aid in processing language faster

\> if use both at once, communication =

I> visual language is everywhere

\> weak in detail and precision \> cannot convey all of human thought \> as they ARE (this not even emoji)

proposals:

An Essay towards a Real Character, and a Philosophical Language (1668) by John Wilkins. https://en.wikipedia.org/wiki/Ideogram

attempts: Blissymbols - Charles K. Bliss in 1949 \> currently includes over 2,000 symbols

/ leibniz's system

positives: / many symbols

shortcomings:

/ many symbols - no hierarchy / no spoken language - no pronunciation |||>

> \> see "technology" >groups - accomodates diff needs in diff groups \> ability groups > mute, locked-in (BCI), ASD, deaf

/ synthetic

participants

>technology \> accomodates different tech

evolved at least alongside vocal language

> more efficient

why EmojiLang is better:

\> language evolves constantly to fit needs of user-base and

>knowing what we know now about how language affects

> better coherence / working together

\> shape writing to tech (take advantage

> shape tech to writing (create tech for

\> simple to learn - few symbols / emergent evolution

\> adapts to changes in : >time - the times -era as communications change

/ set amount of symbols

\> just starting language again - will end at same place -\> this new language is consciously constructed

society and thinking

\> overcome issues > more inclusive of disabilities > global - inter-linguistic / international > constructed in tandem with technology and writing systems \> arguably writing systems as they are today

\> if intentional between writing and language of existing tech)

/ BCI integration / VR / VEs

> | | | "no spoken pronunciation" \> not meant to be spoken

> meant to be thought || \> new kind of speech \> telepathic

wearable BCIs and AR devices are commonplace - worn everywhere

publishing of development of language

\> standardisation

\> defeats object of universality \> keep dialects from diverging too far due to online

\> designed to help create a future where everday

> or used in certain situations/use cases

- \> e.g. using VRChat to communicate with mute people > e.g. medical - locked-in patients

- > maybe it could develop a pronunciation \> in certain dialects

Designing culture (#18) / Propogate use of Emojis and bring about the 2nd paradigm shift > #promoji ||>

Promoji (#19)

Aim: Propogate use of Emojis and bring about the 2nd paradigm shift

/ Battle tyrannical antiquated conventions laid by the Print Age

Methods:

/ Email signatures - include #promoji to highlight and explain usage of emoji in formal and informal communications alike

Language/writing systems affect society and culture (#20)

Affect culture

```
/ how do gods
                                                                   rationality is not natural its a designed thing
                                                                   \> Foucault the apparatus
Affect society (culture > society)
                                                                     \> folk psychologically accepted as the main thing
                                                                   / prehistoric or mayan, scripts
                                                                     \> pictographic
Affects thinking
                                                                       \> how affects thought
                                                                          \> mythology
/ [SOC pq11] Helprin 2009 - abbreviations and
quickening of communication to accompdate written
synchronous communication (IMs etc), "produce an
                                                                   / paragraph that describes what IM doing
addictive affect on how peopleprocess information,
rendering them less pensive and reflective"
                                                                   \> and the structure
                                                                   \> reading
```

Layout / practical use (#21)

```
/ Linear?
 \> yes
 >directionality?
 \> left to right?
   > can be used either way
    \> signal to denote?
/ Synthetic
allow concatenation of singularideas into complex inter-related ones in some
rule-based arrangement (Trager 1974)
\> due to(Naoimi Baron 2010) writing matching syntax of the language it
transcribes
>pictographic systems less dependent on syntax of verbal lang
 \> versatile in representation of sequential stages of episodes and actions,
Such as narratives [Dringer, D. (1948) Alphabet a key to the history of markind. Available at: http://archive.org/details/in.gov/lgn-
cs.1287 (Accessed: 30 November 2022)
/ add ability to spell - key to toggle to normal keyboard
 \> for names etc
  \> most systems are mixed-modal - Schele 1979 [SOE]
>evolves
\> evolutionary AND revolutionary
  \> constructed large intentional shift PLUS designed for evolution
       \> best of both worlds
         > evolutionary
             > adapts to suit situation
          > constructed / revolutionary
            > designed with current knowledge of language and society and
culture (and their interrelations) in mind
```

Positives and negatives of implementation of EmojiLang (#22)

Positives:

/ Synthetic nature of only 122 > ECONOMICAL

/ Pictographic systems less dependent on syntax of verbal language (Mallery 1893 - Danesi pg 7)

\> versatile in representing sequential stages of episodes and actions, like narratives (Diringer - Danesi n7)

..
/ Visual depictions feel more powerful than words
(esp in the mixed text - Danesi p 38-39)

\> esp in visual metaphor vs verbal metaphor
\> perhaps because verbal metaphors lost their
rhetorical forcus due to babituation

/ More easily interpretable INSTANTLY with NO KNOWLEDGE of the SIGNS or RULES (of the code/lang)

\> not completely
 \> MUCH more INSTANTLY than ANY NATURAL
LANG SCRIPT

/ We already USE emoji - 40% Insta posts (at Danesi year) contain emoji - check now

/ Reading disorders - DYSLEXIA UNKNOWN in PICTOGRAPHIC-IDEOGRAPHIC cultures like CHina \> primarily in ALPHABET cultures (Shlain 1998 - Danes in 91)

Positives of Emojis in general:

- Study University of Toronto Nadia Guarino, Soli Doubash, Lily Che, Yvone Tuan
- Balanced gender
- 50 males, 50 females
- 18-22
 323 personal texts, tweets, and social media
- materials

 [Dares, N. (2017) The Semiotics of Emoli: The Bics of Visual Language in the Age of the https://docs.no.pulp.com/processories/upperform/semiotics/. Available at: https://docs.no.pulp.com/semiotics/. Available at:

Why often prefer text messaging over oral communication among friends

1."It's like talking, but better, because I can edit the message before sending it."

2."I can go back to my message to see what I wrote so that I can make sense of my friend's own message 3."I prefer it to speaking, which can be dangerous because I can't take back my words; this way I can, and with emoji I always try to make sure my friends urderstand!

Negatives of implementing EmoliLang:

/ [SOC pg11] Helprin 2009 - abbreviations and quickening of communication to accomodate written synchronous communication (IMs etc), 'produce an addictive affect on how peopleprocess information, rendering them less pensive and reflective'

/ Not good for long stretches of text - e.g. novels

\> Olson (Claon, D.R. et al. (1974) Media and Symbols: The Forms of Expression, Communication, and Education: the Swerty-third Neutrook of the Referend Society for the Study of Education. National set in the National Society for the Study of Education. National set in the National Society for the Study of Education. National set in the National Society for the Study of Education. National Society for the Study of Education. National Society for the Study of Education. National Society for the Study of Education.

\> utterance meaning" - comprehensible only in context where utterance occurs

> "text meaning" \> entails dislocation from context

> greater control of language and content

\> EL designed mainly for utterance meaning \> still possible to use text meaning \> example: EmojiLang poems

/ Ambiguity \>dangerous \> esp internationally

```
/ Electracity - electronic media literacy
 \> electricity + trace (Derrida)
>multimedia
> hypermedia - e.g. internet
  social software
> virtual worlds
Derrida's "trace":
Developed from angle of grammatology - the study of writing systems
Shift from orality > literacy used as analogy for shift from LITERACY > ELECTRACITY
Seeing the society/the spectacle , rise of entertainment, the new media
through lens of apparatus theory

> now = emergence of a NEW APAPRATUS
   \> new tech / APPARATUS as a social machine
social machine
 \> cameras, alphabet, printing press
   \> partly machine
    > partly social
>> invented in context of a civilisation with needs/wants
          |> e.g. invention of writing - Egypt + ancietn civs
                \> often empire to keep track of grain harvests
                  \> record keeping
                > Chinese writing invented to keep track of DIVINATION
                    \> ideograms recordings of readings of turtle shell divination (baked and cracked in certain way)
            | > writing wasn't invented to write Moby Dick
             |> writing washr invented to write Moby Dick
\> what if it could be
\> idea of form lagging behind ever-changing functions
\> can new script/EmojiLang be adaptable
\> designed with constant evolution in mind
                    \> how will it evolve over time? |||>
Apparatus theory -
Appararus as a social machine:
/ 3 interactive elements in a matrix
> the technology
> institutional formation
  \> practices of the institution developed to use the tech
> subject/identity formation
\> individuals within new institution, participlating in its practices
    > begin to experience their lives in new way
||> e.g. orality - oral peoples over long period invented (tech of)
              > tech: natural language - symbol formation
\> institutional formation: religion
                 \> practices of institution: ritual
                                                    \> way of structuring information so it can be remembered and tapped into
               > subject formation/identity experience: spirituality 
\> oral people experienced themselves through spirit

    - e.g. Native American shamans .e.g. Black Elk - Battle of Little Big Horn
    - no firm boundary separating them from natural world - permeability between self and world

                           \> Homer's epics
                               \> when Olysses or Agamemnon or someone has an idea, recorded as voice of a God
                                 \> Terrence McKenna - Food of the Gods - idea of Ego as a late development \> for oral peoples the world is magic / alive and speaking to them
                                  \> bird tweeting might as well be the voice of a God
                        ||> no idea of the individual
||> e.g. literacy - Greeks
> tech: alphabetic writing (though they wrote in other ways before)
     \> speech could be recorded and repeated
>institutional formation: School
   >Plato invents the academy
      \> new form of behaviour
       \> new associated practices: method (PLato's Phaedrus)
\> equivalent of ritual (orality)
           \> formal procedure for organising though dialectically
   > Socrates the first individual / first person to experience themselves as the "self" in the way we think of it
```

/ need to make an argument - evidence the research / look at mark scheme

Designing EmojiLang within context of society and culture (#23)

Race / Yello

/ Yellow supposed to be neutral

\> closer tonally to white

\> make blue?

> rely on/emphasize how yellow has gone beyond symbolising skin tone

Current technologies:

/ Digital colonialism

/ Tech technocracy and Unicode \> take the power back

Emojis contain embedded cultural meanings

/ Required to understand

/ Enable valid communication of a culturally-significant meaning

\> some Emoji are higher on a "universality scale" than others

Affects thinking

/

How will EmojiLang evolve over time (#25)

Designing for evolution

```
/ Language is synthetic
 > the constant creation of new words is BAKED INTO the GRAMMAR and syntax / general
usage
    \> relies on this
   \> need protocol for building in permanent new words
     \> needs to maintain 120ish characters for simplicity
       \> 1 in 1 out
         \> software
            \> most commonly used combinations become temporary hotkey
                \> hotkey section displays handful of hotkeys.
                \> must be cross-user
                 \> top hotkeys from each user shared
                   > can view "top hotkeys" from all users
                    \> sorted by popularity
                      \> integration method
                        \> most popular integrated into language temporarily
                             \> where/how?
                              \> extra key for "tempKey"
                                 \> what are the logograms called? | | | >
                           \> most popular replaces least popular if exceeds usage
/ Many emoji are CODED as COMBINATIONS/modifications of specific emoji
  \> Individual emoii
    > Zero Width Joiner "zwidge" - Unicode character - joins characters together (if
supported - otherwise displays in turn)
  > modifiers
   \> SKIN TONE modifiers - Fitzpatrick scale (condensing lightest 2)
      \> 2014 - Apple and Google proposed > implemented Unicode in 2015
   > some empli can act as MODIFIERS when ZWIDGED > empli sequences > combined
(when supported)
    \>"female sign"♀
       \> converts many "gender neutral" emoji to female (same with male)
        \> many emoil started as gendered, then made neutral w modifier
         \> "Always" campaing - men = police officers/athlete - women = haircuts/cov
           \> Michelle Obama - calls for "girl studying emoil"
            > "Women with Bunny Ears" ₩ (2010 Unicode 6.0 -1st to support Emoli) >
"People With Bunny Ears" + m/f variations (2016 Emoil 4.0)
               \> Japanese "bunnygirl" (< Playboy sexualised bunny suit) - subservient
women with sex appeal
                \> Western: female frienship / girl's night out
                  \> third-wave feminism
[]>use this engineering - allows grams to evolve together - branching pattern
```

Harry tutorial 3 (V#26)

Harry tutorial:

/ same example for concepts

/ 2 needed parts of project:

> language

>brain switch

Brain control already do this:

-my project is about augmenting their existing system to a language 1>

/ \its about showing a demo of what can be done - and how it can emergently get better in time

/ history of language book

To do:

COnstructed language research HANG OUT WITH SOMEONE WHO DOESN'T SPEAK ENGLISH > record of relationships crested through this language \> DESIGN PROBLEM: MAKE FRIENDS WHO DON'T SPEAK ENGLISH

\> NEED THE NECESSITY- like learning language in the country \> maybe university departments - contact other people \> make avatar into a sign and go around VRCHAT

/// Viva: Explain other

Want to design language so affords creation of individual micro-dialects. for certain use cases

\> .e.g vrchat dialect > eg hospital dialgect

? ITS NOT ABOUT BRAINCONTROL - the work is right here!

Duncan tutorial 2 (V#27)

Harry tutorial:

/ auto-ethnography ?

/ me: been thinking about how grammatology affects thought/culture:

D:

rationality is not natural its a designed thing

\> Foucault the apparatus

\> folk psychologically accepted as the main thing

Me:

/ prehistoric or mayan, scripts \> pictographic

\> how affects thought \> mythology

D: SEND:

/ paragraph that describes what IM doing

\> and the structure \> reading

Modalities for VR language 1(#28)

Possible modalities for communication in VR/VEs

```
/ Avatar
\> avatar meets EMoji - bitmoji + facebook + Samsung/Apple personalised avatars to enact emojis or animated emojis/sticker functions
```

enact emojis or animated emojis/sticker functions
/ Environment
/ Generated forms

Increasing flow using language/interface

/ Avatars are ICONIC ?

\> semiotic sense- form represents what it stands for

\> religious/worship sense - represent without direct resemblance

\> generic way
\> omits details that would give it a distinctive human personality (Danesi p 12)

\> not most of them

- \> do have personality as chosen to represent personality/mood
- \> people already change avatar to show their current mood
 - \> evidenced by easy access fo favourite avatar in VRChat popup menu
 - \> just taking this to its natural conclusion

Avatar modifications + meaning/signifier + signified

OWN AVATAR:

/ antennae/horns = symbolises connection to SPIRITUAL/AFTHERIAL

\> could represent an ABSTRACT/FIGURATIVE MODE of speaking

> e.g. aroused = grow horns

> robot antennae = receiving/broadcasting DIGITAL or LOGICAL or LITERAL information

\> afk? researching?
> bug antennae = receiving/broadcasting SOCIAL

> bug antennae = receiving/broa information

\> ants - eusociality

> antlers

\> SPIRITUAL mode

OTHER'S:

20/03/23

Emojis ARE already a LANGUAGE (#30)

/ Emoil code arguments

Arguments for Emolis (already) as a LANGUAGE

/ EVOLVING subject to adaptive change (Danesi p 42)

- \> ?reduced universality status
 - > "shaped by specific experiences of particular communities of users"
 - \> more like a lang?
 - \> like a natural lang, undergoing change NOT TO DO WITH COMMUNICATION but meeting SPECIFIC DEMANDS \> Bullae envelopes/record keeping

\> sensitive to pressures - FIND OTHER EXAMPLES - T#12

- \> Michelle Obama called for "girl studying emoji" in response to:
- > cross-cultural
 - \> "ALways" feminine hygiene ad campaign "Like a girl"
- / Taken seriously as communication
- >Legal case emoil at end of sentence
- > Teen arrested for "terrorist threat" in Emojis emojis of guns pointing at police officers
- \>CNET: "Emolis are words too. Indeed, some might see them as a very modern, exalted form of digital cursive script. That seems to be the view of the New York Police Department, after it viewed the Facebook page of 17-year-old Osiris Aristy from
- > "As a result of this conduct, the defendant has caused the informant and other New York City police officers to fear for their safety, for public safety, and to suffer alarm and annoyance."
- >Emoji Death threat

/Marketing companies, app developers, and multinationals "spend thousands" studying USAGE DATERNS
Evans. V: 2011) The Emergi Code: The Linguistics Behind Smiley Faces and Scaredy Cats. Picador: Available at: https://books.google.co.uk/books/96-F1 inDwAAGBAI.

/Andy Murray EMOJI ONLY TWEET morning of wedding table, K. (2015) Andy Murray predicts entire wedding day in opic empli

- / Taken seriously as communication / ubiquitous
- >Legal case emoil at end of sentence
- >Teen arrested for "terrorist threat" in Emolis emolis of guns pointing at police \>CNET: "Emojis are words too. Indeed, some might see them as a very modern, exalted
- form of digital cursive script. That seems to be the view of the New York Police Department, after it viewed the Facebook page of 17-year-old Osiris Aristy from Bushwick, Brooklyn," > "As a result of this conduct, the defendant has caused the informant and other New York City police officers to fear for their safety, for public safety, and to suffer alarm and annoyance." after alleged Facebook emoji threats, CNET. Available at: https://www.cnet.com/culture/teen-arrevied-after-alleged-facebook-emoji-threats/
- > Emoil Death threat journalist Fletcher Babb gun pointing at dead face emoil > threatening emoli could warrant a criminal case - Author Patchin, Ph.D. a professor of criminal liables at the University of Wisconsin-East Claire
 Hiscott R. (2014) Yes. Ernoll Death Threats Are Administric in Court. Manhable. Available at: https://manhable.com/archive/ernoll-death-threat (Accessed: 12 January 2023).
- >Man imprisoned for 3 months in France emoji death threat to ex girlfriend (qun emoji) 11> Apple changed from gun to water pistol
- >BBC Newsbeat emoji only news Even, V (2017) The Emoji Code: The Linguistics Behind Smiley Faces and Scaredy Cats. Picador. Available at:
- >Radio station WNYC live subway "Agony INdex" shows status of lines
- /Australian Minister for Foreign Affairs Julie Bishop POLITICAL INTERVIEW IN EMOJI \>asked to characterise world leaders - PUTIN = RED ANGRY FACE Stefano, M.D. (no date) Auto Bishop Describes /Michelle Obama



Linguistic Concepts (#31)

Core Lexicon

- / Elaborated concretely by Swadesh (1951, 1959, 1971)
- / Data from archaology and anthropology
- / Universal / linguistically primordial words
- / Set of concepts from which all languages draw their original words

 - \> concepts useful to humanity since beginning \> categories of things common to life everywhere
 - \> mother, father, animals, plants, parts of the body, tools, weapons, etc

Biohacking technologies (#32)

Neuralogical technologies

Fields:

Neuroergonomics

Application of neuroscience to ergonomics

In contrast to traditional PSYCHOLOGICAL perspectives

Neuroergonomics' (2022) Wikipedia. Ausliable at: https://en.wikipedia.org/w/index.php?title=Neuroergonomics&ddid=1124991182 (Accessed: 12 January 2022).

/neurostimulation

/ mental workload assessment /adaptive automation

\> HUMAN-MACHINE system \> real-time assessment of operator's workload to enhance performance

\>human-robot team better at controlling air/ground vehicles over either alone

Bionics/prosthetics

Sensory restoration/substitution /Cochlear implants

Sensory expansion

/BrainPort

Neuroplasticity and technology general	Neuroplasticity and language - children/developing brain
Neuroplasticity and tech - language	-rg

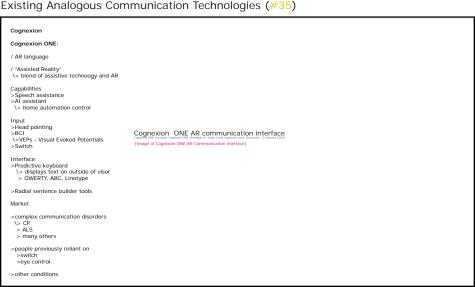
/ Chat with Graeme Moffat Cognixion are doing a similar thing \> limited interface to facilitate communication in the ability space / OpenBCI have the resources and infrastructure for collaborations like mine / DESIGN is RESPECTED as a role in the industry - this type of collaboration IS possible / The only marketable BCI products are PASSIVE BCI, not ACTIVE \> System-2 is passive / fNIRS has been scrapped by any company who have tried it \> not fast enough - low temporal resolution

Business/ collaborative practicalities (#34)

/ The market is lean - not a hopeful time \> obviously the recession

> low spacial resolution

Cognixion ONE AR communication interface [Image of Cognixion ONE AR Communication interface]



Why Emoji are significant culturally/economically (#36)

Economically

/Marketing companies, app developers, and multinationals "spend thousands" studying usage patterns

Culturally

/Andy Murray EMOJI ONLY TWEET morning of wedding taslle, K. (2015) Andy Murray predicts entire wedding day in spic emgli tweet. Melto. 11 Acril. Mailable al: https://melto.co.uk/2010/04/11/andy-murray-predicts-entire-wedding-day-in-spic-emgl-tweet-5144999 (Accounsed: 13 January 2023).

/ Taken seriously as communication / ubiquitous

- >Legal case emoil at end of sentence >Teen arrested for "terrorist threat" in Emolis - emolis of guns pointing at police
- officers \>CNET: "Emoils are words too. Indeed, some might see them as a very modern, exalted form of digital cursive script. That seems to be the view of the New York Police Department.
- after it viewed the Facebook page of 17-year-old Osiris Aristy from Bushwick, Brooklyn," > "As a result of this conduct, the defendant has caused the informant and other New York City police officers to fear for their safety, for public safety, and to suffer alarm and annovance.
- Mathyaczyk (Condisis) lises arrested after alleged Facebook empli threats, CNET. Available at: https://www.cnet.com/culture/teen-arrested-after-alleged-facebook-empli-threats/ >Emoil Death threat - journalist Fletcher Babb - gun pointing at dead face emoil
- > threatening emoil could warrant a criminal case Audin Pathin, Ph.D., a professor of criminal lastice at the University of Wacomin-Eau Claire
 Hiscott, R. (2014) Nes, Emoji Death Threats Are Admissible in Court, Mashable. Available at: https://mashable.com/archive/emoji-death-threat (Accessed: 13 January 2023)
- >Man imprisoned for 3 months in France emoji death threat to ex girlfriend (gun emoji) 11> Apple changed from gun to water pistol
- > BBC NewSbeat emoji only news Evers, V. (2017) The Emoji Code: The Linguistics Behind Smiley Faces and Scaredy Cats. Picador. Available at:
- >Radio station WNYC live subway "Agony INdex" shows status of lines
- Politically /Australian Minister for Foreign Affairs - Julie Bishop - POLITICAL INTERVIEW IN EMOJI
- > asked to characterise world leaders PUTIN = RED ANGRY FACE Stetans, M.D. (no date) Julie Bishop Describes

 **Communication Conference Communication (Conference Communication Conference Con /Michelle Obama

Ballie, K. (2015) Andy Murray predicts entire wedding day in epic emoji tweet, Metro, 11 April. Available at https://metro.co.uk/2015/04/11/andy-murray-predicts-entire-wedding-day-in-epic-emoji-tweet-5144999/

Danesi on Emoji - i (#37)

[Notes from the book "The Semiotics of Emoji" by Marcel Danesi, with some thoughts from me, Ash]

The Semiotics of Emoji: The Rise of Visual Language in the Age of the Internet

Danesi - " the rise and rapid spread of emoji might signal an incipient paradigm shift in how people perceive writing, literacy, and

Print age- encouraged and IMPOSED exclusive use of alphabetic writing
Internet age - encourages different forms of "wwriting" - visual and audio - used in tandem with alphabetic (and non alphabetic) scripts

/ Print age over

ation of unconscious forces at work ine volution of human communication systems and practices

Emoils can be seen as new kind of universally usable writing code

Since McLuhan said shift from pictography to alphabetic writing 1,000 BCE was first true cognitive shift in human history > and marked shift from tribal societies to CIVILISATIONS

\> so emoji shift = NEW CIVILISATION - common visual writing system

\> shift in human consciousness from LINEAR and LITERAL > holistic and IMAGINATIVE mode

P: Vygotsy 1962 - started making art and language at same time + children same > evolutionary trait - guides language developmen

Most linguists think spoken language > writter \> writing means of recording speed

\> view product of ALPHABET using societies
\> archaological evidence (lowering of larynx 100,000 years ago) language as a MENTAL FACULTY developed before speech
\> gesture and pictography

> then speech + gesture

\> still use gesture > + gesticulate when speaking

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|> living Linguistics evidence \> Japanese - characters + hirigana/katakana

\> supplement characters
\> writing not arbitrary way of encoding speech
\> adaptive and culturally sensitive TOOL for ENCODING INFORMATION

writing + speech used for

> what other ways - digital methods - how can we extrapolate of information

. Pictographic + logographic = one degree of separation/representation \> pictographic - PICTURES > visually reprresent > OBJECTS \> ideographic - PICTURES and SYMBOLS > represent OBJECTS + IDEAS

\> logographic - SYMBOLS > represent WORDS > represent OBJECTS + IDEAS \> homonyms

Most writing systems have balance between VISUAL and PHONETIC

I > MIXED MODAL

be MIXED MODAL (multi-modal) - e.g. gesture, avatar/enironment modification, Emojis

> can Emojilang be MIXED MUI \> multi-modal BCIs popular

\> examine all modes \> heart rate

> eye tracking

\> input, not output
\> research MULIT-MODAL outputs in VR and BCI

Emojis add "visual tone"

/ Not profane as seen to be > annotative code

Synchronous vs asynchronous temporalities in writing

SYnchronous digital communication (IMs) require RAPID WRITING

\> led to appreviations
\> MUST MAINTAIN interlocultor's ATTENTION

> flow of conversation

\> Helprin 2009 (D pg 11) THIS style MAKES PEOPLE LESS PENSIVE AND REFLECTIVE

/ Utterance vs text meaning \> D: EMojis mainly UTTERANCE

ADvantages of SMS over oral - according toD's study > can edit before sending but still like talking (EDITABLE UTTERANCE)

> TEMPORAL - can "rewind" - go back to check other's prev message > ? can "take back my words"

Modalities of writing systems: > iconic - forms RESEMBLE something > indeexical - INDICATE or point to something

> symbolic -

Emojis good because extra modalities writing systems don't have: / Colour (red angry face, green ill face) / Value (line thickness) / Perspective

\> Peirce's semiotics

Original purpose of emoji was globalisation

Ambiguity:

/ When using common language between users of others (e.g. English as common language)

among out to be protected.
 bimpart culture-linguistically specific meanings into the common lang
 accidentally imply innapropriate/incomprehensible meanings due to lack of knowledge of full range of possible connotations/readings of

\> e.g. "involved in an affair right now, cannot help you out"

/ Nail polish emoji - non-English connotations are sexual and offensive \> English = nail polish / sassy - used after a sentence to show person believes self to be (in moment) sassy, blase, or unapolagetically/ruthlessly egoic, selfish, or 'saying it as it is'

/ THumbs up emoji \> offensive in Middle East, West Africa, Russia, South America > poss passive aggressive in West

/ Emojis concretise negative cultural biases \> prev no female professional emojis \> not enough emojis to "show what girls do" (Danesi p34)

\> test with different groups

Positives (add to sect

Positives (add to section)

/ Visual depictions feel more powerful than words (esp in the mixed text - Danesi p 38-39)

\> esp in visual metaphor vs verbal metaphor

\> perhaps because verbal metaphors lost their rhetorical forcue due to habituation

/ More easily interpretable INSTANTLY with NO KNOWLEDGE of the SIGNS or RULES (of the

\> MUCH more INSTANTLY than ANY NATURAL LANG SCRIPT

/ We already USE emoji - 40% Insta posts (at Danesi year) contain emoji - check now

/ Reading disorders - DYSLEXIA UNKNOWN in PICTOGRAPHIC-IDEOGRAPHIC cultures like CHina \> primarily in ALPHABET cultures (Shlain 1998 - Danesi p 91)

Evolution of the EMOJI CODE - EMOJIS are already a CODE:

" the emoji code is evolving into something different than its original intent to provide a simple picture-word system of universally comprehensible symbols for facilitating global communication

/ The "EMoji Code" has evolved in a few years

/ "knowledge of how to use this code is now an unconsciously crystalizing ystem with its rules much like those of natural languages

Code: a system of signs or sign forms and specific rules for using them - Danesi \> a system of signs that are perceptually distinct and that can be combined in specific ways to make words - Danesi \> use of any CODE requires "LINGUISTIC COMPETENCE"

/ There is now an "emoji competence" \> how to use these images to

> make messages > read messages that are easily interpretable by receivers

/ Displacement of emojis in a text can be seen as anomalous or nonsensical \> implies set of rules for usage

\> like a natural language > have EMERGED THROUGH USAGE like a nat lang

\> if code continued to be used broadly, its SYSTEMATICITY would be INSTITUTIONALISED

(SEE ULMER) In

> EMOJI GRAMMARS

> EMOJI THEORIES

> currently these RULES

> emerge through usage \> alded by following natural language SYNTAX and SEMANTICS

|> also involves "communicative competence" - knowledge (K) of how the forms enact mmunicative functions
\> tacit K of how to use the forms effectively

/ EMoji COde can be used >ADJUNCTIVELY to add to a text >SUBSTITUTIVELY of a text

SUBSTITUTIVE use

/ Even when can't understand a fully SUBSTITUTIVE text (written entirely in Emojis), one can surmise its general content, at leaste tone [Emoji Birth Story Danesi P36)
\(\rightarrow \) immediately EMOJI CODE MORE UNIVERSAL than ANY ALPHABETIC SCRIPT (without K of it) \(\rangle \). The control of the con

\> contrasted with a natural lang \>" due to it's "picture-word" nature

/ First line shows speaker is female - more info than pronoun "!" in ENglish
\> DISSECT/ANALYSE chosen logograms from Emojilang and show how are superior in this way
\> use semiotics to show broadest undeniable interpretations (e.g. explosion/fire = explosire reaction" ----T#10 reaction* ----T#10 \> then break down further and show a (diagram?) spectrum of poss interpretations up to the

/ SYNTAGM - linguistic unit of a set of forms in sa equential relationship \> hatching + celebration e.g - CREATE OWN EMOJI STORY and use as EG --- T#11

/ Constructing a text (any) requires

>selection >combination >associative relation

Adjunctive use

/ Easier and more broadly comprehensible
\> discussion of comprehensibility \> all/most reading is inherently INTERPRETATION not COMPREHENSION
\> something is always lost in the process

\> communication theories

5 canons of rhetoric:

>Invention >Arrangement >Style >Memory >Delivery

3 features that define a CODE >Representationality - SIGNS and RULES stand for something defined

>Interpretability

Emoil code has a CORE and ADAPTIVE PERIPHERAL components

CORE: ||>#31
/ Consistent with CORE LEXICON of NAT LANGS

\> proof of universality
\> Swadesh's core items found in CORE EMOJI LEXICON

/ Expands upon Swadesh's list

Expanos upon Swadesn's list
> includes facial emojls - happy and sad
> Swadesh didn't include emotions
> too variable/relative
> his relativist school of linguistics
> others show words for basic emotions universally \> anger, surprise \> Ekman (1973) and others

/ VERBS harder to convey graphically than NOUNS
\> Danesi's participants showed "no hesitation in interpreting (them) correctly" VERBAL EMOJI

/ 1,000 core emoji - Danesi's research team \> couldn't do a statistical analysis of actual usage \> did X

\> cross-referenced with most frequently used emoji of iOS customers in 2016 \> mostly consistent with Danesi's core \> some obviously not universal

\> only tells us about iPhones in 2016

>Nicolas Loufrani first to create some kind of CORE (unintentionally) \> 2000 - made "Emoticon Dictionary" - 1,000 smiley signs \> not a great universal selection

>2010 Unicode COnsortium and national standardization bodies from US, Europe, and Japan released STANDARD SET of 722 emoji - in Unicode 6.0 Apple made emoji keyboard available to non-Japan in 2011

. SUser's native language guides emoji syntax \> complicated further by fact emoji can be used as nouns, verbs, or other parts of speech

/ Keymoji function - autocorrect suggests emoji

/ Emoji and EMOJILANG display COMPRESSION

/ Technocracy of emoli

learning acy or entity
 lead to have the keyboard to speak the language
 Unicode controls the standard
 who controls EMOJILANG?
 evolves EMERGENTLY

/ "modern eye" already accustomed to pictorial communication

visual signs in public - traffic etc

\> Danesi: "The emoji phenomenon is an outgrowth of this intrinsic tendency in

communications."
\> evolved itself

/ Indicates decline in standards CRITICISMS \> ANCIENT mindset

\> every time there has been a shift in WRITING/LITERARY practices, has been viewed as "Truptive" and indicative of a "decline in standards"

\> PLato - Phaedrus: threat of writing as negatively impacting

> memory
> ability of THE MIND to detect inconsistencies of logic

\> didn't allow back-and-forth repartee that attenuated danger of MANIPULATION

\> writing became THE BASIS UPON WHICH K CONTRSUCTED AFTER \> Philosophy - logical syllogisms (defined first by Aristotle) >Major striving toward conciseness in modernity
\> reaction to "protracted style of treatises and philosophical disquisit

>Mass communications TECHNOLOGIES always geared toward this goal \> "compression" - Alexander 2012; Turner 2012)

Compressive visual symbolic systems: / Charles BLiss - Blisssymbols / Pitman 1837 stenographic (shorthand) notation system

Semantics of emoil:

/ Will emoil use shape/change EXISTING writing practices and SYSTEMS / Visual forms have an intuitive appeal

/ Forces people to think imaginatively (see grammar)

/ Emoji usage could be retrieving ancient form of "VISUAL CONSCIOUSNESS"

/ EMOJILANG is a WRITTEN SYSTEM - what about speaking? Density 5.3 - everyone preferred WRITEN communication (to F2F or video chat)
 Texting allows me to make sure we don't fight, as we often do when we talk to each other
 parents

/ Emojis intrinsically CONNOTATIVE \> even POETIC

/ Evolution of rhetoric symbols: >not all visual objects carry visual rhetoric Sonja K Foss 2005 [Danes] of 11 : / 3 characteristics that turn VISUAL OBJECT>COMMUNICATIVE ARTEFACT: >symbollism >ihuman interaction >presented to audience for purpose of comm with audience

/ Emoji are "metaphorical poltures" - BLENDS / Emojj are "metaphonical poluries" - SILENDS OF METAPORT OF THE ADMINISTRATION OF THE A >"CONCEPTUAL METAPHORS" can be seen OUTSIDE OF LANGUAGE

CONCEPTUAL ME LAPHONES" can be seen OUTSIDE OF LANGUAGE >PHYSICAL SWIPTOMS

>> pain = "don't do that/this is bad"
>> RL ANGUAGE (avata:environent etc) IMPLICATIONS
>> represent CMs we DON'T HAVE IN EXISTING LANGUAGE
>> limitations of WRITING

\> LATENT SPACE CONCEPTS?
\> could EVOLVE HUMAN CONSCIOUSNESS/PERCEPTION

\> Evidence: NEuroplasticity
> Find evidence: HOW WRITING/LANGUAGE has SHAPED

> cognition > sensory experience > other things - read

overcome w VR lang

/ Metaphors We Live BY - Lakoff and Johnson

visual metaphors / emoil CREATE A NEW SYSTEM OF CREATING INFINITE COMPOUND METAPHORS on top of use alone

> this is just language \> visual component \> broader?

connects with PRIMORDIAL?

things can't say with words
 BEYOND IMAGES to VRLANG implications

> SENSE OF PRESENCE/INHERENCE SENSE OF PRESENCE/INHERENCE

ACTUALLY SEE THE LANGUAGE COMING FROM THE BODY/repredentation of presence/identity itself

\> EMPATHY \> neurodivergence and empathy + remedy to similar desensitization

> desensitised to certain phras \> e.g. "I want to kill myself" ses and phrasal verbs

\> same will happen
\> avatar-linkage means constant reminder of link to human - THAT HUMAN THERE

> this is where FLAVOUR/TONE comes in \> use tone to create a visual VOICE - imparts PERSONALITY/OWNERSHIP

Images are POWERFUL:
/ Todd Gittin - Media Unlimited: How the Torrent of IMages and Sounds Overwhelms Our Lives
\times barrage of images from media

> accumulate in "groupthink" \> worldviews, lifestyle behaviours

images represent realities but are not realities \> we know this but PREFER THE VIRTUAL to the REAL

.> Baudrillard 1983 [Danesi p 74]
\> SIMULACRUM EFFECT \> blurring of lines between reality and images

| > live in a VISUAL CULTURE

ive in a VISUAL CULTURE.

\s image more predominant than words/spoken word
\s always had a visual culture
\s balance tipped now due to VISUALLY BASED COMMUNICATIONS

\> illuminated manuscripts medeival/Renaissand

\> enhance meaning of text - adjunctive (not substitutive)

\(\) discurrences \(\) \(\) tone \(| > \) time \(| > \) Saussure 1916 \(| \) Danesi p 76 \(| \) "Men might as well have chosen gestures and used visual symbols \(\) the \(\) time \(\) time \(\) the \(\) time \(

instead of acustical symbols

/ Overcomes real problem of conveying TONE in written text

overcomes real problem of conveying Toke in written text
\> percy lacking
\> examples of famous misunderstadnings/ thought experiments
\> SARCASM

>interrobang \> why didn't it catch on? > internet age approach to capitalisation - NEW CASE - ironic/sarcastic case

/ Only used for adding tone - not a real language \> ADJUNCTIVE usage = emotive, phatic, poetic - supplementary > SUBSTITUTIVE usage = has own SYNTAX - conceptual (see bel

No culture in history doesn't have visual writing traditions

\> visual thinking crucial to human understanding \> maybe more than verbal \> picture-writing = foundation of all writing systems \> points to COMMON UNIVERSAL TYPE OF ORIGIN

> evolved in different places individually
> is evidence for PRIMORDIALITY / BIOLOGICAL
> supporting evidence

\> best way to make a universal language? Return to the LOWEST COMMON DENOMINATOR / Hybrid visual-written language "More the rule than the exception" in history \> graffiti ususally had visual supports

\s graint ususaily had visual supports
\s considered + intended as profane
\s is the visual profane?
\s we are reviving the visual from profanity - #promoji

\> Danesi: rise of emoji could be retrieval of this hybridity / Spread of emoji-only texts will lead to FURTHER EVOLUTION of emoji GRAMMAR

\> like learning a second language by immersion marketing \> PETA "beyond words"

> pop culture

Danesi on Emoji - ii (#38)

```
[Notes from the book "The Semiotics of Emoji" by Marcel Danesi, with some thoughts from me, Ash]
            Emoji Gramma
               / "PLacement grammar
               > Mostly based on calquing
\> also pictorial-conceptual
> has its own syntactics
\> conceptual-iconic syntactics
                    \> syntactic flow > a "conceptual assemblage
                            \> organised by nature of concepts
                              > alongside own "sentence grammar
                                        \> internal "SYNTACTIC PROPENSITY" (for SUBSTITUTIVE and ADJUNCTIVE uses)
                                                              \> ADJ + SUB: emoji SUPERIMPOSED in locations usually filled by specific kinds of words, punctuations marks,
                                             \> ADJUNCTIVE: image or diagram in a paper/illuminated manuscript couldn't convey this type of meaning - only
           Illustrative/demonstrative/supplementary
\sim interplay between ICONIC CONTENT of emoji and SYNTACTIC STRUCTURE of the NATURAL LANGUAGE (that is used hybridistically) provides HIGHLY EFFECTIVE FORM of STRATEGIC WRITING STYLE (e.g. Danesi p85 - SMS 5)
                                                      \> reading employs HYBRID FORM OF UNDERSTANDING 
\> like REBUS WRITING
                                |> e.g. Danesi p 83-84:
                                        > Asymetrical flow
\> SUBSTITUTIVE: PETA - subject first
> ADJUNCTIVE: SMS 4 - :P emoji AFTER message
            / Self-sufficient - relation of concepts to each other and to outside referencial domain \> not based on internal rules of sentence formation
          / PETA eg
>CONCEPTUAL GRAMMATICAL STRCUTURE
\> grammar of SENTANCE FORMATION
                     \> like SVO syntax of most European languages
                 |> grammar of CONCEPTUAL FORMATION
                          \square \text{visual nature > forces people to think imaginatively}
\square \text{what happens to our brains when we think in this way?}
            / LANGACKER - (1987?): parts of speech originated from imagery content of words 
\> NOUNS ENCODE THE IMAGE SCHEME OF A REGION IN MIND-SPACE
                            \> VRLang latent-space concepts/words
               / Has its own rules of pluralisation
                  > repeat character \(^\) expand capabilities of current language
                        \> can PLURALISE ANYTHING
                           \> even ABSTRACT CONCEPTS
                              \(\text{\colongray}\) expenses 
                                                 > BUT DUNY 1 - Instead repeat "smiling face" multiple times
\simple "sell" (> BUT CAN'T SAY THAT FOR "happiness" as a concept
\s same mode (happiness) but PLURALISED
\s still just emphasis
\s A: empli pluralisation can mean MORE THAN EMPHASIS
                                                                       \> provides tone
                                                                               > friendly/playful tone
                                                                               > implies active negation of PERFUNCTORY nature of certain phrases.
                                                                               \sim developed through overuse \( \) "being the obvious choice" \> e.g. multiple "smiley face" emojis rather than one when housemate says "everyone should do x"
                                                                                    \> one may seem perfunctory
\> multiple NEGATES this through DISPLAYING EFFORT
                                                                                              \> writing more (verbal lang) shows increased concern/care
\> emoji pluralisation = NEW, DEFINED, DISTINCT mode of COMMUNICATION OF perceived
            Danesi's 322 messages show (adjunctive)
             | Climpli use | September | Climpli use | Climpli use | Climpli use | Syntactically - at locations where PUNCTUATION or SALUTATION would occur | September | Septe
              >Semantically - represent MEANING, at the location in sentence where the meaning occurred
               \> annotate meaning of word or phrase
             >Reinforcing - reinforce VERBALLY INDICATED meaning \> 878
            / Conceptual-iconic syntactics somewhat concordant with GENERAL THEORIES On VISUAL WRITING AND THINKING
                 > Dondis 1986
                 > Saint-Martin 1991
             / Emoji-only text in "Book from the Ground: From Point to Point" - Bing Xu, 2014 (Danesi p88)
               > translating it would miss the point
>AMALGAMATION OF SCRIPTS, SYMBOLS, and VISUAL FORMS
                 \>breaks created with chevrons ">>>>>"
\> like SECTION BREAKS in WORD PROCESSORS
                   > indentation used
> punctuation used
> emojis
            I> Cohn (2013:28) [Danesi p89]
                     .> writing based on "combining schemas"
\> comic-book analysis
                            > FUTURE IS NOT EMOJILANG or AVATARLANG, or ENVIRONMENTLANG, its an AMALGAMATION OF SCHEMAS
\> multimodal communication
                                 > multimodal communication
> future of multi-modal BCIs
> why are they showing to be the way forward?

    A: numans magpie
    1st stage - pictography > rebus principle (for NECESSITY-esp to accomodate external/foreign/alien)

                                                           \> PURPOSEFULLY HYBRIDISED rebus writing (e.g. German Rebus Manuscript)
                                                  \> PURPOSEFULLY HYBRIDISED rebus writing (e.g., Gem alphabet/Subuglidas + syllabaries 
\> colonialism > languages and writing systems combine 
> Japanese combines logography + syllabaries 
> Japanese popularise Emoji 
> World use Emoji with own scripts/languages
                                                        \> individual HYBRID quasi-scripts emerge
\> commonalities subconsciously/cultural/metamind-level emerge into IMPLICIT GLOBAL (via regions first -
            West and East separately) EMOJI quasi-language/script (own grammar)
                                                   -PRESENT MOMENT
                                                     > Unintentional/without intervention:
\> will evolve into fully-fledged GLOBAL EMOJI LANG
```

\> people like me CONSTRUCT EMOJI LANGs people like me CONSTRUCT EMOJI LANGS
 \u2015 vonts - defined - set
 \u2015 wont withstand evolutionary pressures
 \u2015 wont withstand evolutionary pressures
 \u2015 wont with LITERACV barrier
 \u2015 EMOJILANG/VICLANG - fluid
 \u2015 designed to not just accomodate evolution
 \u2015 but be DESIGNED by EVOLUTION/EMERGENCE
 \u2015 \u2015 Emograph Exclusionary Designer \> "Emergent Participatory Design > others - uni-modal \> come "outmoded" on arrival
\> Stengers? - lang/tech can't keep up with human thought EMOJILANG/VRLANG - MULTIMODAL \> must be open to > evolution of existing included modalities > addition/intregration of FUTURE MODALITIES \> "More Than One Way To Skin A Cat Ethos" (MTOWTSAC Ethos) > Originally thought EMOJILANG = answer \> Emojilang UNIMODAL \> VR-MultiLang \> learning curve \> far less than traditional constructed global languages \> logographic EMOJILANG basis (to start with) > Initial MULTIMODALITY includes user's NATIVE LANG
\> speaking/gesturing to fill in gaps
\\ susers' *EFSONAL VRANG' evolves
\> shared practice group/pair *GROUP VRLANG evolves
\> inter-group communication facilitates *VRLANG MICRODIALECTS*
\> cross-nativelang inter-group comm \times *VRLANG DIALECTS*
\\ \> cart rely on NATIVE LANG supplementation
\\ \> VRLANG DIALECTS* \> VRLang Dialect becom \> will always remain > PROVE VR IS THE FUTURE OF COMMUNICATION \> VR as the future of ontology / reality > VR as the future of global communications \> internet is centre of global communications VR is the future of internet communications > VRLang not a language because not "spoken" \> spoken in other ways \> enables mute people disables blind people
 MTOWTSKC Ethos - should always be multiple ways of saying things \> different MODALITY-CENTRED DIALECTS \> like how various sign languages evolved \> Modes SO FAR: \> what is closest to Jaron Lanier's avatar language NOW? > wrist vibration interface - Xtactor
> vibratory bodysuit
\> represent presence
> switch between 'displaying'/relaying diff AGENCY STATES
> SELF AVATAR STATE
> CHAPTS' AVATAR STATE
> ENVIRONMENT STATE
> CEMEDATTE FEDINAS STATE
> CEMEDATTE FEDINAS STATE
> CEMEDATTE FEDINAS STATE > GENERATED FORMS STATE II > each utilise all desired mode

/ "what the emoji phenomenon is showing, more than anything else, is that visuality and phonetic writing are merging more and more to produce a hybrid language and, thus, that HUMAN COMMUNICATION IN WRITTEN FORM IS EVOLVING more and more on a single path of HYBRIDIZA-TION ACROSS THE GLOBE..."

\> 'traditional language and writing can't carry our thoughts in the ways of the past'
\> CAN carry in ways of the past
\> can't keep up with our thoughts/communication needs TODAY
\> STENGERS? WHO SAYS THIS?

/ "I can figure out emojis most of the time; but sometimes I have to write back and ask my friend what she meant; I guess emojis are a lot like words; we use them any way we want."

/ "Many of my emoji are the same as those of my friends: but sometimes I create new ways of using them But my friends still UNDERSTAND MY USES because, I think, THEY UNDERSTAND MY TRAIN OF THOUGHT. It's easier to be inventive with emoji than with anything else."

Emoji Pragmatics

Internet affects on literacy /internet affect on traditional school lit \>increasing use of informal registers

ency in writing patterns

> increased abbreviation

/ Perez Sabater (2012) [Danesi p971; similar communicative strategies in Facebook + informant texts / David Crystal (2011) [Danesi p97]: 2 new forms of writing = online and offline

David crystal (2011) [Uanes pty]: 2 new forms of writing = online and offline \(\sigma_{\text{injext}}\) ("alk linds of scale processes" \(\sigma_{\text{injext}}\) in schools now students and teachers given choice to move back and forth between the 2 literacles \(\sigma_{\text{injext}}\) > Emoji not common in student-teacher comms

/ Naomi Baron (2008) [Danesi p97]: Nation Baron (2008) [Daniesi p77]:
ONLINE literacy little effect on OFFLINE literacy
| dichotomy > diglossia
| ONLINE = low value and informal
| why is informality of low value?

> why is informality of low value?
\> has it always been? Structures of power shaping development of language and attitudes toward it.

/Some claim ONLINE LANG is like a pidgin
\> will eventually EVOLVE into a GLOBAL CREOLE - new form of literacy

/ Danesi: Emoils, as a written form, may have INCREASED SENSITIVITY TO WRITING

Amesi. Emilys, as a witten from , any have inversed between the first to write y generated a "meta-literacy" awareness
\s as emojis used more
\s 2 due to thYRRID form (picture + traditional script) being more interesting
\s dynamic (vs static traditional)

/ Hybrid competence - HYBRID LITERACY \> ability to extract and use relevant digital info in MULTIPLE FORMATS, from a WIDE RANGE OF SOURCES, via digital devices

>implies development of SUBLITERACIES

\> audience rather than single interlocutor \> increase in MEDIA-style literacy

> vernacular literacy - how diff langs and jargons interact > information literacy - how to mine info from internet and communicate it

>media-dependent (we learn through DOING - being involved in a MEDIA COMMUNITY)

/ Media-specific textualities

weedia-specinic textualities
> SMS poetry
> celliphone novels
\so download in short installments
\so shift in consciousness/attention span or EXPANSION into MULTIPLE ATTENTION MODALITIES?

\> formal, institutional - closest to print

/ Halliday (1985: 82) [Danesi p98]: "when new demands are made on language, it changes to

We are making language work for us in ways it never had to do before, it will have to BECOME A DIFFERENT LANGUAGE in order to cope."

/ Stark and Crawford (2015) - political angle to new Emoji literacy (hybrid writing)

>convey affect > support current socio-political system
> maintain "CULTURAL HEGEMONY" (GRAMSCI 1931) (Marxist)

\> control masses through indirect means \> incl writing >emoji are conduits for AFFECTIVE LABOUR

>emoji are conduits for AFFECTIVE LABUUR.
\> in the social networks of "INFORMATIONAL CAPITALISM"
\> Emoji are rich in social, cultural, and economic significance

>emoji embody the tension between AFFECT as HUMAN POTENTIAL and a PRODUCTIVE FORCE that capitalism seeks to harness

\> by managing "EVERYDAY BIOPOLITICS"

>evidenced in emoji usage in ADVERTISING and POLITICAL SLOGANS

||> Danesi's study - almost everyone disagreed that emoji can be used to "manipulate people in a capitalist society"

\> admitted notential for this

\> but always been a danger in persuaisive writing

>began with rise of SMILEY \\(\text{\sigma}\) to High a CUTURAL FORM that emerged out of "typographic habits, corporate strategies, copyright claims, online that roooms, and technical standards disputes"

\> serving to SMOOTH OUT the rough edges of digital life
\> D's work shows emoil used to underscore TONE, introduce HUMOUR, bring COLOUR and

PERSONALITY to boring text

, >emoil can act as EMOTIONAL COPING STRATEGY

> how might this develop?
> How are analogous VR/game "EMOTES" used like this?

> condense emotional reactions down to 6 states
> "create new avenues for digital feeling"

>Sarah Ahmed (2010: 29)[Danesi p99]: "AFFECT is what sticks" to

\>PEOPLE, PLACES + OBJECTS (Ensure VRLang addresses these categories) \> emoji emexplify the TENSION between AFFECT AS

>productive force the market seeks to harness through COMMODITIZATION OF EMOTIONAL MODALITIES

>Alexander Galloway (2006:95): "It is precisely those places in culture that appear politically innocent that are at the end of the day the most politically charged"

II>emoil code part of EMERGING NEW GLOBAL INTELLIGENCE

\> WHICH HAS GENERATED ITS OWN KNOWLEDGE FORMS

>form of CREATIVE EXPRESSION

\> my text about santa
\> fun emoji art/writing examples

Is Emoji and Universal Language?

[Notes from the book "The Emoil Code" by Vyvyan Evans, with some thoughts from me. Ash]

Mind Control

MEANINGFUL UNITS

\>"chaos", "betraval", "empathy"

>MANY EMOJI ALREADY COMPOSITES

\> people don't know this

SYSTEM OF RULES - GRAMMAR

/English is - 942 million fluent speakers - 1.5 billion proficient \> "Natural language is a living, evolving organism shaped and renewed each day by its users" \> LANGUAGE AS AN ORGANISM PAPERS /Over 90% world's internet users use Emoji on SOCIAL MEDIA >80% adults regularly use in text messaging - more for teens /2 billion users of Emoji Multimodality: /NONVERBAL CUES provide much meaning in everyday conversations \> Emoji fill this gap >gesture >facial expression >body language >speech intonation /Digital text alone is "impoverished" and "emotionally arid" /72% of British 18-25 YOs believe "Emoji makes them better at expressing their feelings" /Match.com study (non-subscribers)[p34] : >more emojis single person uses = MORE DATES AND MORE SEX >In women - MORE SEXUAL SATISFACTION /Switkey-1 billion text-based items (16 languages) study - TOP 3 CATEGORIES = EMOTIONAL EXPRESSION \>45% happy faces, 14% sad faces, 12.5% heart/broken heart The Conduit Metaphor Alakoff and Johnson

//Lakoff and Johnson

/ Inguage
Is meaning associated with WORDS or EMOJIS is NOT FIXED - meaning is a SHAPE-SHIFTER-like putty \s must have a RELATIVELY CONSISTENT, WIDELY KNOWN MEANING to FUNCTION effectively
\s we interpret meaning of words THROUGH PRISM OF CONTEXT
\s C. Leviknoon - message in a bottle - "meet me here, a week from now, with a stick about this big"
> server at fast-food place asks "What's up?" when you arrive at counter > surver at last-tood place assis "what's up?" when you arrive at counter

> "MEANING"

- "meaning is a PROCESS that takes place in the HERE AND NOW OF COMMUNICATION"

> NOT an OBJECTIVE "THING" that lies outside us, in the work > dynamic > consequence of PERSON, PLACE, TIME /Emoil and context >aubergine/peach emoji >emoji meaning SHIFTS via their METAPHORIC APTNESS \> my lawyer is a "shark emoji" >emoji meaning shifts based on "emoji font" used by your device \> Unicode: "(hand) gun emoji > Microsoft = revolver; Apple = WATER PISTOL \> would NY District Attourney have issued arrest warrant for Osiris Aristy if WATER PISTOL EMOJI? /words/emojis don't represent definitions like a dictionary, represent CONCEPTS, more like ENCYCLOPAEDIA \> 'book' = everything we know about a book - how looks, works, made, written, who writes them, what can be about, how use them, possible purposes > MEANING VARIES based on context - accessing DIFFERENT PARTS of our ENCYCLOPAEDIC KNOWLEDGE/CONCEPT
\> "heavy book" = book as object, with weight
> "controversial book" = book as written text, item of culture >red pen = red outside/red ink > water pistol = dredges up DIFFERENT ENCYCLOPAEDIC K than REVOLVER/PISTOL \> diff meaning /communication requires >SIGNAL, intentionally produced, to SIGNIFY a SPECIFIC, WIDELY KNOWN MEANING >RECOGNITION as such by OTHER MEMBERS of a GIVEN COMMUNITY Human Communication Is Multimodal /communicative SIGNALING is MULTIMODAL >point = gestural mode >cough = paralinquistic mode >write letter = linguistic mode >draw love heart= visual mode >perfume letter=olfactory mode /mode = TYPE of INFORMATION /SAME MODE can be conveyed via MULTIPLE MEDIUMS \> LINGUISTIC MODE :> LINGUISTIC MODE

-> oral-aural medium - speech
-> manual-gestural - sign languages
-> written-textual - write
-> 2D-visual - visual languages (e.g. Blissymbols) /some MODES can be conveyed via SAME MEDIUM \> KINESIC-VISUAL MEDIUM \> facial expressions /multimodal COMMUNICATIVE SIGNALS provide COMPLEMENTARY TYPES (MODES) of INFORMATION, conveyed via DIFFERENT CHANNELS, CONVERGING on a RICH, often COMPLEX, COMMUNICATIVE INTENTION* vhat signals, modes (types of info), channels can be used in VRLang > " can be used in other channels/technologies > what FUTURE TECHNOLOGIES can be imagined to fill given CHANNELS, MODES, SIGNALS \>due to COMPLEMENTARY and OVERLAPPING cues from DIFFERENT MODES - we understand intended meaning easily
\> how can VRLang do this? /Today's 6-YOs have EQUIVALENT levels of DIGITAL TECHNOLOGY K to average 45-YO [pg 57]

/Adults spend 22 hours online avg - more than doubled in decade

/Minds are SYMBIOTICALLY LINKED to others /willinds are 31/wild TICAELT EINKED to duties
\> "mind-control"
\> affect mental states of others with INTENTIONAL BEHAVIOUR - shared intentionality \>physical - harm, hug, stimulate sexually >communicative - "I hate you" \> "close the door" /Function of communication = enable everyday mind-control \>shaping means of communication = thought control /Emoji already "evolves via the changing use of individuals" \> supports EmojiLang/VRLang as EVOLVING PARTICIPATORY DESIGN /Apple changed gun>water pistol >prevented introduction of "rifle emoji" for Olympics [pg 66] \> controlling what people can say /ALREADY HAVE DIALECTS of EMOJI - platform-specific "Emoji fonts" /DON'T NEED LANGUAGE TO COMMUNICATE ...
/We already create new words through SYNTHESIS "lumbersexual" - shortlisted for 2015 word of the yea *trexit*
 > prefixes / suffixes - *un-*, *-less*, *-ed*
 > I'll create a new word now: *ununiversitied*, *universitiless*
 > can already see possible connotations, socio-political tensions - *Robert is ununiversitied.*
 > what about *misuniversitied* /Constructed Languages CAN become languages \> Esperanto native speakers /A language is a [language definitions] \>MEANINGFUL UNITS (e.g. words) with a SYSTEM OF RULES - GRAMMAR A: EmojiLang/VRLang dialects won't lead to MUTUAL INTELLIGIBILITY
\> no one knows all the English words \>A VOCABULARY
\> most 10,000-30,000 words
\> the Oxford 3,000 - CORE VOCABULARY (core lexicon?)
\> SHAKESPEARE only knew 40% of words at the time
\> Mandaten contability with characters. > STARKESPEARE UNITY NIEW 40/8 OF WOULD SET UP 11/19
> Mandarin readability with characters
> Charles K. Ogden [pg 82]'s (1930s) Basic English movement
\> only need 1,500 words, made up of 850 basic words /Emoji itself has "narrow SEMANTIC RANGE OF EXPRESSION \> pictographic - can't do ABSTRACT concepts Show EmojlLang poss words/grams for these
 Emojllang = possibly LOGOGRAPHIC (are "grams" words?") - combination of "pictographic" + "ideographic" \> conceptual (Danesi style) grammar might evolve - or own word order /Emoji grammar
>Gestalt Principle central to visual perception
\> proximal objects considered RELATED
\> Placing Emojis next to each other to show relationship = form of grammar "zero wdith joiner"
"female singer with dark-brown-skin" = "female" emoji + "dark-brown skin modifier" + "microphone" emoji /Natural language: SYMBOLS motivated by ARBITRARY CONVENTION ("cat" - doesn't look like a cat or build on smaller units that look like smaller units of a cat)

- Semojl "code": SYMBOLS motivated by ICONICITY

\> accustomed to ICONIC REFERENCE \> computer icons (skeuomorphic) - recycle bin, file, document \> dragging file > recycle bin moves it there \> ICONICITY means HARD TO REPRESENT ABSTRACT CONCEPTS Iconicity means hard to represent abstract
 become more symbolic
 lags - represent state - represent country
 See no evil, hear no evil, speak no evil monkeys
 ICONICITY of Emoji can be culturally-sensitive As two hands pressed together - originally Japanese "please/thank you" - used to mean "prayer" by Westerners \> BECAME SYMBOLIC: "hands together" icon > prayer > HOPE/WISH/ASPIRATION \> ASL is largely ICONIC in motivation - "cheerful", "happy", "excited" = upward motion

/Joe Hale created one- cryptosemantics
->smust be VALUE in LEARNING a grammar (/Emoji language principles) for it to CATCH ON
->s Emoji use is mainly ADJUNCTIVE
-> complement "LINGUISTIC MODE" - not replace
-> provides NONVERBAL CUES missing from textspeak
-> SIGNIFICANT SHIFT TO LANGLAGE compared to most of history
-> evolve into a system that ENABLES "LEVEL PLAYING FIELD" between F2F and DIGITAL COMM How is TECH shaping communication today?
Kristin Byron - Syracuse Uni [pg 105]: LACK OF NON-VERBAL CUES in EMAILS > addressees NOT GOOD AT INTERPRETING EMOTIONAL EXPRESSION OF SENDER >angry emails \s E: and TEXTUAL DIGITAL COMM PREVENTS EMPATHY > STUDIES on conditions for empathy? Mirror neurons etc - need to see them
> Negative effects on society
> analyse Reddit argument from misunderstanding > VRLang \> PHANTOM TOUCH A> shows our brains associate AVATARS with self > probably can stimulate mirror neurones >Lack SPEECH PROSODY
>F2F can ADJUST TONE and CONTENT of overall message, AS WE SAY IT
\> RESPOND TO ADDRESSEE's responses \> VERBAL and NON-VERBAL ||> Emoji add tone > Help express IRONY/SARCASM (study [118]) > avoids miscommunication Importance of non-verbal cues /Handshake strength (evidence) /Self-touch - e.g. hair - bored, romantic /Turn-taking time /eye contact movements"[pg110] \>VRLang /Kinesics and Paralinguistics = communicative attitudes, rapport \> tone, express attitudes to addressee/otherss AND to MESSAGE /Mehrabian [pg 114] over 90% of COMMUNICATION of EMOTIONAL RESPONSES comes from PARALANGUAGE + FACIAL EXPRESSIONS (part of KINESICS) \> 7/38/55% rule - language/paralanguage/facial expressions / FACIAL EXPRESSIONS important for > and FUTURE TECH possibilities \>verbal comm more important when making judgement on person >The more language = the more language becomes important Emoil faces [pg 119] Into Tacks (pg 119)

Is insert table with OFFICIAL descriptions

Is are the descriptions exactly how you (reader) would put them?

Is show e.g.s of AMBIGUOUS, SYMBOLIC, and SOPHISTICATED emoji + meaning will evolve - maintain "multipurpose" usage or not depending on NEED of USERBASE

\> may see CULTURAL DIALECTS make themselves evident here \> DO SAME FOR EMOJILANG - map Emoji faces to POSSIBLE EMOJILANG compound equivalents \> maybe use faces of Emoji (or Emojilang) as guide to show possible VRLang ideas \> Embjilang needs more faces
\> not if used in combination with VRLang - face tracking, eye tracking, body tracking /Swiftkey study - nearly 50% EMOJI use = POSITIVE YELLOW FACES \> 15% negative
\> emoji used when POSITIVE at the moment
\> LACK of POSITIVE EMOJI is taken to mean PASSIVE AGGRESSION \> REPLACING active aggression in youth bc of this? /6 main ways NON-VERBAL CUES (NVC) ENHANCE MEANING E2E /o main ways NUN-YEMBAL CUES (WC) EMPLANCE MEANING F2F

3. Substitution (notd INSTEAD of "yes")

> EMBLEM/emblematic gesture = when NVCs REPLACE LANGUAGE ("ok" sign; thumbs-up)

> 2. Centradictory - MIXED MESSAGING - can be DELIBERATE ("this will be fun" in MONOTONE delivery +

CRUMACE). LIOPERANCE ("DELIBERATE") GRIMACE) - IRONY >4: COMPLEMENTARY = ADD INFO to VERBAL ("would you like some wine?"-"Yes please" + parallel fingers >-4: COMPLEMENTARY - ADD INFO TO VENBAL ("Would you like some winer." "Tes please" + paraliel fingers gesture for "fittle" = "Yes please, but only a little bit" (>> SPEECH PROSODY often complements LINGUISTIC MODE ("Hello" w failing tone vs rising) > 5:EMPHASIS/ACCENT - ("Dear" gestures w hands/fingers - fast = agistation, precise = determination/sincerity (think Jordan Petersen), large+ forceful = frustration/enthuslasm) (>> SPEECH PROSODY - failing tone = new info (1 ate a V hamburger)? > 6:MANAGEMENT/FLOW of DISCOURSE ("SVINESICS"). > Netation - Session - LINKS TWO POINTS
> Indicate THOUGHT PAUSE (hand to chin) - not done talking, just thinking
> nodding head/shaking head - provides SUPPORT
> eye contact - make eye contact when done talking - pass the baton \> PARALINGUISTICS: \> Intonation - punctuates / EMOJI FULFIL ALL 6 Substitution - ("@" instead of "hahahaha" or "that's hilarious") \> AN EMOJI = VISUAL GESTALT ||||||
\> ENCAPSULATES often complex SET OF EXPERIENCES in a single, intuitively accessible glyph
2-Reinforcement - (*I love you* • ♥)
3-Contradictory - (*No. I love spaghetti bolognese ②* = ironic metacomment)
4-Complementary - add something new - METACOMMENT on HOW TO INTERPRET MESSAGE
\> avoid LOSING FACE - politeness markers

> EXPRESS EMOTIONAL ATTITUDE (vibe) - (*Late again!* vs *Late again! ③*

- Explications | **Interpret | *Interpret | *Interp 5-Emphasis

>- can REPEAT Emgli for EMPHASIS (often also REINFORCEMENT)

>- can REPEAT Emgli for EMPHASIS (often also REINFORCEMENT)

>- senerally, more emglis – emphasis/stronger sentiment

>- but complex CODE/system of number - like xis

>- but complex CODE/system of number - like xis

>- MULTIPLE HEARTS = more friendly, less amorous love (*I love you ▼**)

>- ONE HEART = more sincere/amorous (*I love you ▼**)

>- but derstatedness implies lack of need to exaggerate/emphasise sentiment as is so OBVIOUS

>- Julie Bishop - Australian MP/Minister for Foreign Affairs - (*Thanks...for...stellar + **year**)

>- Discourse management - MOSTLY at START OR END of SENTENCE

>- START = often RESPONSE/ACKNOWEDGEMENT of PREVIOUS MESSAGE - smiley or thumbs up

>- END =- PLAVOURED TERMINAL PUNCTUATION MARK (full stop = pass agg)

>- No **TRANSITION RELEVANCE PLACE** - idea FINISHED - pass baton

-- METACOMMENT.

Will emoji EVOLVE to become a language?

```
Backwards Step
 /Jonathan Jones in The Guardian [pg 137] - Emoil "huge step back for humanity"
      \> misunderstands purpose of Emoji
\> Emoji not for LONG FORM - literature, complex prose
\> EMOJI for SHORT FORM, EVERYDAY writing
               \> UTTERANCE function
\> text messages (incl IM)
> tweets - replicate "thinking out loud"
 / makes us poorer communicators
\> like saying using FACIAL EXPRESSIONS in F2F makes us poorer communicators
\> RESEARCH ON EMOJI USE AND COMMUNICATION/LITERACY
      \> VISUAL REPRESENTATION = POWERFUL MEANS OF COMM.N \> esp in LESS ADEPT LANGUAGE USERS
             > DISABILITY EVIDENCE
              > Adults - "visual learners"
                 \(\sigma \) \(\sig
      \> EMOTIONS
\> Swedish children's charity - bespoke Emojis for DOMESTIC ABUSE victims
> "Emotes Project" - emoji-like characters - help CHILDREN express EMOTIONS
      \> ADD LEVITY + PERSONALITY
            \> personality "oils" comm.n
\> make and maintain RELATIONSHIPS - DIGITAL and MATERIAL realms
 Emoii as a WRITING SYSTEM? - no. a colourful addition
  /Joanna Stern - Wall Street Journal article in Emojis
  \> "just to supplement text with emojl, you need to adjust your brain to think visually: how to communicate in cartoon."
 /Writing systems evolve in response to CHANGING NEEDS /?Writing such as EGYPTIAN HIEROGLYPHS 5,000 years old \> Danesi - larynx + cave paintings |||
 /Writing enables COMMUNICATION BEYOND THE HERE AND NOW - SPACE and TIME
      \> how can future systems evolve this? Refine elements of this? \> speaking is EPHEMERAL \\> EMDILLANG/VRLANG SYNTHESISES WRITING AND SPEAKING - best of both worlds
                 > so does TEXT MESSAGING
                     > not intended for it - mental paradigm different - text seen as "recording speech" still, even when clearly UTTERANCE
 meaning \> EL/VRL = NEW PARADIGM - "writing" (ish) as a FORM of "speech" (ish)
Voldation Age of Athens - 400s (FIFTH CATURTY) BC - NO PUNCTUATION MARKS or WORD-SPACING // 200s/3rd Century BCE - Greek librarian at ALexandira - PUNCTUATION (comma, colon, "periodos") REPRESENT BREATH
 /Romans - DOTS between words; NO PUNCTUATION
/ Fall of Rome - CHRISTIANITY - PUNCTUATION popular for PRESERVING the WORD OF CHRIST [hieroglyphs = holy also]
/ Fail of Rome - CHRISTIANTIY - PONCTUATION (
> gained GRAMMATICAL MEANING
/ Middle Ages - colon, semicolon, question mark
/ 15th Century - exclamation mark
/Punctuation = mechanism for imbuing aspects of PARALANGUAGE into text \> but affects MEANING, not just transcribing speech
/WRITING now REQUIRES articulation of NVCs as REPLACES F2F COMM.N - WRITING RUNS PARALLEL TO SPEAKING \>NOT REQUIRED degree of COMPLEXITY UNTIL NOW. \>NOT INTERCUIRED degree of COMPLEXITY UNTIL NOW. \>NOT INTERCUIRED AND \>NOT INTERCUIRED AND
 /3rd INDUSTRIAL REVOLUTION - DIGITAL REVOLUTION - 1980 to NOW (VIRUS?)
\s SOCIAL INTERACTION takes place increasingly in DIGITAL VENUES - SOLIDIFIED BY VIRUS
\s METINGS - EMAIL / VIDEOCALL
      S MEETINGS S EMAIL VIDEOCALE
S GOSSIP S GROUP CHAT
S PEOPLE THAT LIVE TOGETHER USE TEXT even when in SAME HOUSE
1ST INDUSTRIAL REVOLUTION: 1760-1840
/Driven by NEW TECHNOLOGY:
\cdot STEAM+WATER-powered TECHNOLOGIES - (STEAM ENGINE)
/CULTURAL TRANSITION: AGRARIAN-INDUSTRIAL
 2ND INDUSTRIAL REVOLUTION: 1870-1914
 ZND INDUSTRIAL REVOLUTION: 1870-1914

/DRIVEN by NEW TECHNOLOGY:
\> ELECTRICITY + Internal combustion engine
/CULTURAL TRANSITION: LABOUR MECHANISED > MASS PRODUCTION
 /1982 - Scott E. Fahlman - computer science prof - USA
/Proposed ":-)" MARKER for JOKES on UNI COMP SCI DIGITAL BULLETIN BOARD - ":-(" for "NOT jokes")
/Vladimir Nabokov - 1969 - called for "typographic sign for a smile"
//lan Gregg - 1936 - Harvard Lampoon - "smile (-), laughter (--), frown (#), wink (*)
/ Puck Magazine (satirical) - 1881 - 1ypographic symbols for HUMOUR in PRINT - Joy, melancholy, indifference, astonishment
//Bierce - ? - "snigger point" - represent laughter - smilling mouth like right way up parenthese
 /Fahlman 1982 > early INTERNET like USENET (1980) - emoticons with NOSE ":-) /:-( /:D /:-P " took off
 / NOSED became standard - email
/NOW - NOSELESS EMOTICON more common
 /NOW: NUSSELSS ENUTION more common
/ne EVOLUTIONARY PRESSURE ON LANGUAGE = "COVERT PRESTIGE" [p 154 ref 151]
/> non-standard language has COVERT appeal - RELECTION of SOCIAL NORMS > FORM IN-GROUP
/> e.g. swearing in some groups - express group identity
 /NOSELESS TWEETS most common variation on TWITTER - 2012 research
       II > NON-NOSERS
                > shorter tweets
> non-standard spelling
> abbreviations ("thru")
> missed apostrophes
                           > ?typos? - (tomorrow = tomorow)
> lengthened words for "emotional affect" ("sooo")
                 > YOUNGER
                                                                   tige - drop the nose to rebel/establish own ground
 / At time of Emoticons - TECHNOLOGY TO DISPLAY COLOURED PICTOGRAMS in FLEDGLING STAGE
```

\>"what fires together wires together" - NEUROPLASTICITY \> CMs GROUNDED IN EVERYDAY EXPERIENCE

\> experiences > patterns in mind/brain's ORGANISATION

[Notes from the book "The Emoil Code" by Vyvvan Evans, with some thoughts from me. Ash] Rise of Emoli Seina Emotion /Mobile internet - instantaneous communication /emotions from processing of experiences in MID-BRAIN structures / emotions in the processing of experiences in with EVOLUTIONARY VALUE / regulate biological wellbeing / create bodily response > react without processing (time) /Shigetaka Kurita - software engineer - involved in first MOBILE-BROWSER / Early internet-enabled "FEATURE PHONES" \> DI SPLAY limited TYPES of info (modes?) /primary emotions = innate /secondary - in part acquired [p 188 - ref 189] > small LCD screen > MAX 48 CHARACTERS Primary emotions [ref 190]: >Love >Surprise >Joy >Anger \> TEXT INSUFFICIENT for RANGE OF INFORMATION \> SYMBOLS \> SYMBOLS \> ("weather is fine" = "\overline") \> more SPACE-EFFICIENT >Sadness >Fear > greater CLARITY \> more ACCESSIBLE We SEE the EMOTIONAL STATES of others in their POSTURE and EACIAL EXPRESSIONS / had to be coded digitally
\> simple vector (????)-type shapes / 176 Emojis created based on things user need to CONVEY and UNDERSTAND - communicative intent too /we use SYSTEM of CONCEPTUAL METAPHORS (grounded in our EXPERIENCE) /Inspiration: \> tropes
\> allow us to use OUTWARD BODILY MANIFESTATIONS OF EMOTIONAL STATES > stand for EMOTIONS Manga - uses VISUAL EMBLEMS to represent ideas - esp EMOTIONS
\> VISUAL METAPHOR - (lightbulb over head)
> STATE- (water droplets represent sweating > signal anxiety/confusion) /Lakoff and Johnson - verticality of PHYSICAL POSTURE > happiness/sadness Laxoni and Johnson - Verticaniy bi PHTSTCAL POSTUME > happiness/sadness
> feeling up, on a high, down in the dumps, feeling low)
> 2 DOMAINS of EXPERIENCE (POSTURE and EMOTIONAL STATE) become MENTALLY LINKED
\> a CONCETTUAL METAPHOR >Infographics - UNIVERSAL SYMBOLS - FACTUAL INFORMATION \> (tollets, parking, exits, food) - still used \> PICTOGRAMS > widely used in Japan since 1964 Tokyo Olympics - HELP FOREIGN VISITORS/ATHLETES (prev in Japanese)
> Otto Neurath + wife - 1920s-1930s - Vienna - Sociologist and Philosopher of Science / Use in VISUAL MODE (as well as LINGUISTIC MODE) \> Bayeux Tapestry - bulging eyes = metonym for fear > Otto Neurath + wife - 1920s-1930s - Vienna - Sociologist and Philosopher of Sc
design TEACHING MUSEUM about Vienna
\> VISUAL SYSTEM
\> (CONICALIY represent COMPLEX IDEAS - bring 'dry statistics to life'
> AIM: UNIVERSALLY UNDERSTOOD + SIMPLE enough for SCHOOLCHILDREN
> Vienna Method > Isotype
> Isotype Institute 1942

Scorype Institute 1942

Scorype Institute 1942

**Total Control of Institute 1942

**Total Con > cartoons / VISUAL METAPHOR ALLOWS: >COMBINATION OF VISUAL EMBLEMS (eye,mouth,eyebrow shape) \> facial expressions = metonyms for EMOTIONS > Isotype institute 1942
- Spread beyond Europe following WWII
|| > modern "infographics" - standardised ICONS for PUBLIC SIGNAGE
- \> US public info signage formalised 1970s - American Institute for Design /Emoji use this to "make emotion real... in our digital lives." Is Emoji a Writing System? Conclusion /Language REFLECTS and ENACTS culture (evidence: untranslatable words) \> tingo - Easter Island \> HOW DOES LANGUAGE REFLECT CULTURE + TECH /Evolved from emoticons < punctuation < writing systems /Types of writing system: >alphabet - LETTER(symbol) - SPEECH SOUND > Letters>Words \> untranslatable words show languages can express concepts unfamiliar to groups of people \>Russian *toska* - ineffable - deep spiritual anguish and pain without a cause - ache of the soul - can be specific >syllabary - SYMBOL - SYLLABLE lovesick, or ennul \> TRANSPOSE this idea onto HUMANITY NOW as a group - possible future words for unarticulated concepts / Korean "Hangul" = alphabetic syllabary
\> phonetically accurate WRITING system
\> mastered QUICKLY
\> South Korea has ADULT LITERACY RATE OF 98% - one of highest \> LATENT SPACE >How does TECH REFLECT CULTURE \>through emojl = "bk" in some "fonts" \>"bank" emojl = "bk" in some "fonts" \> "bk" = Japanese "bakkeru" = "shirk responsibilities" > "bank" = "slacking off" > VALUE OF **INTUITIVE** WRITING SYSTEM >logographic - SYMBOL - WORD >JAPANESE CULTURE vs WESTERN - CASE STUDY - SOCIOLOGICAL ISSUES TO DISSECT \> Chinese/Kanji \> HUNDREDS OF SYMBOLS >no one says what an emoji means - Unicode = how DEPICTED \> so emoji used with CULTURAL MEANINGS / "Farliest writing" = Sumerians 3.400BCF /*Earliest writing" = Sumerians 3,400BCE
\> earliest URBAN CIVILISATION we know of
\> HISTORY OF WRITING - INITIAL EVOLUTION SKIM
\> relationship between CITIES - ECONOMIES - WRITING for RECORD-KEEPING/ACCOUNTS
/Cuneiform evolved from
LOGOGRAPHIC PICTOGRAPHIC (pictures = words) > wedge shape pictographic > wedge IDEOGRAPHIC (abstract / Many emoil are CODED as COMBINATIONS/modifications of specific emoil is Individual emoji
> Zero Width Joiner *zwidge* - Unicode character - Joins characters together (if supported - otherwise displays in turn) > modifiers
\> SKIN TONE modifiers - Fitzpatrick scale (condensing lightest 2) visual symbols represent ideas) \(\rangle > \text{enabled by evolution of ability: wedges capture SYLLABLES+VOWELS+CONSONANTS (like alpha-syllabary)} \) \> 2014 - Apple and Google proposed > implemented Unicode in 2015
\> some emoji can act as MODIFIERS when ZWIDGED > emoji sequences > combined (when supported) / Emoji PICTOGRAPHIC
\> Unicode PROHIBITS IDEOGRAPHIC emojis
/Predictive Emoji = link between emoji and nat langs
\> at best_EARLY_STAGE WRITING SYSTEM
\> LIMITED VOCABULARY/LEXICON \>"female sign" \= \> converts many "gender neutral" emoji to female (same with male) \> many empil started as gendered, then made neutral w modifier
\> "Always" campaing - men = police officers/athlete - women = haircuts/coy
\> Michelle Obama - calls for 'girl studying empil"
> "Women with Bunny Ears" # (2010 Unicode 6.0 -1st to support Empil) > "People With Bunny Ears" + m/f /Could it BECOME a SCRIPT? variations (2016 Empij 4.0)

\squares allone Service (2010 Unicode 6.0 - ist to support Empij) > "People with Bunny Ear
variations (2016 Empij 4.0)

\squares 2 bunnygiri" (< Playboy sexualised bunny suit) - subservient women with sex appeal
\ssubservice | Western: female frienship / girl's night out
\sshirtd-wave feminism come limited lexicon by BECOMING ALPHABET/SYLLABARY via REBUS PRINCIPLE \(\sigma overcome immed textoor to percommon and material and \(\sigma \) "FYE" empil + "HEART" empil + "you" \(\sigma \) NOT PUSHING LANGUAGE - just same old process \(\sigma \) not fulfilling any current need - no evolutionary motivations \(\sigma \) not UNIVERSAL - nat lang specific || > use this engineering - allows grams to evolve || > does language work this way? | > do our BRAINS work this way? | > RESEARCH on CONCATENATION | > of conceptual elements | > of visual/perceptional elements | > | I joursities / anthropology /We live in a visual world No Facebook origins
 Nover 300, mill images uploaded to Fb daily
 /images enhance communication + efficiency \> Linguistics / anthropology \> "visual metaphors" > Theory of mind \> Kant /we are VISUAL CREATURES \> 90% external sensory info to brain = visual [173] \> 2/3 neuronal activity (eyes open) > Psychology > Neuroscience \> visual dominance - "visual capture" \> processed 60,000 times MORE QUICKLY than TEXT ||> apes - treetop canopy di: |> ||| > How does language ENACT culture? >How does language ENACT TECH / Blissymbols \> easy to learn > universal > HOW DOES TECH REFELCT LANGUAGE \>influences: > experiences with diff people diff cultures > How does TECH ENACT LANGUAGE ... /Emoji are VISUAL EMBLEMS or TROPES \> TROPE = literary device > poetic effect \> e.g. poetic metaphor >How does TECH SHAPE LANGUAGE? \> emoji semantic drift/conflict - "dizzy face" - Microsoft = spiral eyes, Apple = X (x-rated: dead) /A: WRITING SYSTEMS AS TECHNOLOGIES? \> Ulmer? \> OTHERS /Metonym = trope where ONE entity STANDS FOR ANOTHER /See no evil hear no evil speak no evil monkeys - VISIIAI METONYMY T#14 - ALL ABOVE ON SEPARATE SHEET + PLAN questions - paper and NEW DOC - go through all # pages \> ICONICALLY represent act of covering eyes, ears, mouth
\> each STANDS METONYMICALLY for a COMPLEX CAUSE-EFFECT RELATIONSHIP ...
/A: Criticisms about disparate DIALECTS of VRLang rendering it not a language / Covering eyes emoji STANDS for all of them Industrial about disparate DIALECTS of Victari
 Industrial and a continuum of intelligibility
 Romanian - Italian - Spanish
 Chomsky / Cach stands for analogies to
/ Cover eyes> see nothing > know nothing (as KNOWING IS SEEING) = turning blind eye to impropriety
> "eve covering" METOMYM stands for WHOLE CHAIN > variations of same language too
> MUT INTELIGIBLE - British English + American English
> can be MUTUALLY UNINTELLIGIBLE too - English Creole "Tok Pisin" - Papua New Guinea + B Eng
\, B E. + Scots can be VERY DIFFICULT ||> many emojis METONYMS - smile # happiness (is symptom/manifestation of it) - YET SMILE stands for HAPP / Lakoff and Johnson - CONCEPTUAL METAPHORS (Knowing and Seeing / Time and Motion Through Space) \>pairs of experiences
> linked in mind (knowing is seeing) >Dialects of VRLang could develop socio-politial tensions vs the "standard" > one-way relationship (seeing>knowing; knowing ≠ seeing)
> building blocks for more abstract ideas

Speak Good English mov

Adoption >Punctuation >Infographics Emoji >have EVOLVED >EVOLUTION in /Motivations: >ease of comm.n \> accents in UK
> Singapore Colloquial English "Singlish" (more common-viewed as inferior) vs "standard Singoporean English"

/Emoil debuted 1999 as part of Japanese Telecom Giant "NTT DoCoMo"'s "i-mode" mobile internet system 20 mill subscribers immediately
 maybe Emojilang needs a PARTNERSHIP
 can it exploit an existing userbase? \>VRChat, Meta, others \> Medical \> not wide spread adoption - communicative enclave
\> VRLang ENABLES communication with REST OF WORLD - others see how well it used by patients /Needs to fill a niche

> MUTE COMMUNITY ON VRCHAT

> AutIstic community online

\= Internet - MMORPGs + ONLINE WORLDs esp POPULAR WITH NEURODIV. FOLK (evidence)

\= THE INTERNET AND NEURODIVERGENCE research / Language > writing > punctuation > emoticons > emoj >Language \>(linguistic mode + aural mode) > aural-oral (D:visual) medium > includes PARALINGUISTIC CUES >Writing
\> creates TEXTUAL/WRITTEN MEDIUM
\>(linguistic mode + visual mode)
> visual medium \>(linguistic mode + visual mode) textual/written medium formalised in 1982 > enhances expression of PARALINGUISTIC CUES In TEXTUAL/WRITTEN MEDIUM
> express AFFECT (Meriam-Webster: a set of observable manifestations of an experienced emotion: the facestures postures used intonsities set: that brunchlar acromomas an emotion.) \> "manpu" technique \> VISUAL EMBLEMS of EMOTIONAL/INNER STATES > TECHNOLOGY EVOLVED > MEANS to REPRESENT Emoji evolved > REPRESENTATION of SAME EMOJI /English lang spelling (appearance of "words"/arguably "glyphs") has evolved due to HUMAN "production" SOUNDS we used to make (e.g. "knight" - "kn-l-ch(like "loch") - t") \(> emg)[s has evolved due to ADVANCEMENTS in TECHNOLOGY - visual displays > colour + resolution /Fb has own Emoji "font/variety" - OS-indiscriminate \> to overcome issue /Twitter MADE own Emoli, but APP uses OS "variety" /Different representations in DIFF "varieties"/OSs \> DIFFERENT MEANING \(\)\text{Apple and Samsung users develop different concepts of Emoji Code \(\)\text{-} Apple and Samsung users develop different concepts of Emoji Code \(\)\text{-} sgrinning face* \(\)\text{-} same emoji - diff. VARIETY > diff. PERCEPTION/response \(\)\text{-} same lang \(\) of diff. VARIETY > diff. PERCEPTION/response (e.g. Singlish) \(\)\text{-} Research (Uni of Minnesota) [pg 208 ref 209] \> sentiment scale from -5 (negative) to +5 (positive)
> "grinning face" - Apple: -1 (negative); Android (Microsoft, Samsung, Google, LG) 4-5 (v positive) >Emoil can be LOST IN TRANSLATION between OSs \(\shappa \) how affect evolution?
\(\shappa \) translative loss of info anthro
\(\shappa \) loss of info anthro
\(\shappa \) loss of info in translation is MUTATION (biologically) \(\shappa \) drives evolution
\(\shappa \) creates variation \(\shappa \) natural selection
\(\shappa \) what variations/types of variations possible in future
\(\shappa \) the relative prossures naturally in future? Constructed Languages >ease of acquisition ||> Esperanto - 1887 - Polish physician >100,000 fluent speakers comm.n in specific contexts
\> ROBOTICS - INTERCOMMUNICATION BETWEEN ARTIFICIAL AGENTS
\> ALLANGUAGES? \> Latent Space \> Text to Image FORMS as a LANGUAGE > Constructed Al languages >realism in fictional worlds Human voicebox + tongue as TECHNOLOGY - 10/11 -144 sounds in LANG \> how could TECH overcome them? NATURAL LANGUAGES - CONSTRUCTED LANGUAGES = a SPECTRUM NATIONAL ENTRODUCES - CONSTRUCTED ENTRODUCES = a SPECTROM
>NATION CAN BE CONTROLLED ENTRODUCES = a SPECTROM
>NATION CAN BE CONTROLLED ENTRODUCES = a SPECTROM
>NATIONAL CAN BE CONTROLLED = a SPECTROM
>NATIONAL CAN BE CONTROLLED \>used on gov.uk websites > local authorities/councils MANDATED to use \> Spanish reformation CONLANGS > more like NATLANGS

Concludes a finite like war Lands
 (Esperanto 350 native speakers - 1996)
 grammar of 8 began DEVELOPING WORD ORDER - despite Esperanto using CASES and free w.o.

Emoji As Democratic /"anyone" can propose a new emoji arryone can propose a new enroji
> arryone can propose a new word
\> Emoji = Unicode Consortium > "words" are OFFICIAL and PUSHED TO ALL USERS
\> PRESCRIPTIVIST > VR/EL = prescriptive start > de > CONLANGS not DEMOCRATIC \> VR/EmojiLang is >propagation of new words - many and the few \social leaders, literary figures, trendsetters, politicians, journalists, YouTubers, social media influencers
\show would these forces affect EL/VRL /Emoji could be seen as "made by the people, for the people >reflecting cultural diversity \> selection process driven by "inclusivity" > taco emoii - taco bell - petitior No proposal won it - petition denied
 dumpling emoji - San Fran Chinese-American busing ||> upper classes - business class \> have to be literate, business sayy, have resources (financial and time) to DESIGN proposal \>EL/VRL - not just ANYONE but EVERYONE CREATES THE LANGUAGE /Eventually will have to CULL EMOJIS > my system? One in one out? > hypercategorisation? > predictive text?
\> becomes a 1-to-1 visual code - loses purpose Where do words come from? /some out of blue \>conundrum - 1596 - insult for pedant >pun >riddle>conundrum \> semantic drift /Jean Altchson- words coined bc: [apply to VRLang/EL] >fashion \>yupple 1980s (young urban prof.) > fell out of fashion > overlapped by "hipster" and "millenial > foreign influence \> English \> collonialism (both ways) >social need \>(metrosexual, vape, selfie, Brexit) (metrosexual, vape, selfie, Brexit)
\>metrosexual - toxic masculinity and home
\> future analogies?
\> GENDER-NEUTRAL FUTURE - tech?? ty and homophobia meets consumerism-shaped beauty standards >Unicode criteria excludes faddish emoji - must have long life >Foreign influence YES >Social need YES :::
Imoji criteria
/include:
/Compatability - widely used system creates "bespoke" emoji - must ensure compatible /Expected usage level \>Hijab emoji - 2016 - 15 y.o. campaign \> more possible meanings = more usage = stronger case \straction \straction \straction \rmsq distinctiveness - e.g. bowl of soup/stew/etc
//words prohibited - only 'new' and 'n&r' - but in blue box
//eltograms NoT ideograms
\straction \rmsq except when universal - eject,play,pause emoji
//completeness - approved if fill a gap
//s gender - bride, salas asneer, bunny girls: police, military
//s-2016 male and female versions - haircut, police, soldier, receptionist
//s language shapes thought - Unicode shape lang > Unicode shape thought /No logos/brands cidentally anti-consumerist/anticapitalist language? \> accidentally anti-consumerist/anticapitalist language?
No delties
No people - living or dead
Not overly specific - describe a category - act like a "token" Emoil substandard form of comm.n Emilia substantiated orm of comm.n Skelf-evidently leads to drop in spelling/reading standards /damaging ability to communicate /making us stupider ||> this prejudice due to erroneous belief in a static linguistic standard/status quo >elderly: youth have no manners >middle aged: music not as good >noliticians more corrunt ||>language part of this - caused by general conservatism
\> LANGUAGE ROLE/SIGNIFICANCE:
\> fabric of our social lives + culture \> who we are - Insular communities like VRChat lend themselves to adoption of VR/EL - Covert Prestige ... Language evolves based on /USAGE-BASED PRESSURES of daily interaction [p231 r225] New words: >new inventions >new ideas >new lifestyles //FORCES OF LANGUAGE DEVELOPMENT/EVOLUTION > who shapes them \>Youtubers, influencers, social media > TECH ENTREPRENEURS - build THE SYSTEMS that are EVOLVING LANG so quickly now II > what do they want? ||> how change the FORCES?

Technology and language (#41)

[back to thoughts from me, Ash] Technologies: /Social media User interaction methods: / Stone tools /Smartphones / all TECH < \>instrumentalism \> include: \> language instrumental - verb-oriented >camera \> can we imagine smt else? >torch Future: \> get what we want imediately >communicator \> Amazon >encyclopaedia \> don't need "desire" words/phrases \> what valuable tech could we add? /FUTUROLOGY > needs are hyperbolic versions of today \> how would this shape comm.n? /gesture-based? \> consumerism \> more NOUN-centric Future: /BCIs > identity politics / Robots - telepresence \> groups have own grammatical /BCIs / Nature-inspired > gender >telepathy >bees - waggle dance > case \> strains - digital telepathy languages >ants- emergent decision-making trails \> different styles of thought \> century of the self \> hivemind \> everyone has own grammatical > storage > gender \> store all languages > case > sex > know what we want immediately ABSTRACT - SHORT IF AT ALL: \> Hivemind / "The Institution/Corporation" \> brands / Drawing / The State /Art (wider) / The law / Writing / Cars/trains/planes /Radio > podcasts /Computers /YouTube

/ SOCIOLOGICAL TRENDS PREDICTIONS

Processes:

/ NEW MEDIA require NEW SYSTEMS \> to exploit their communicative potential

>new forms of INTERPERSONAL INTERACTION > new forms of COMMUNICATION \> humans inherently cooperative > drive for

communication

/ratchet effect - culture provides complex network of shared knowledge, systems, behaviours, and practices \> born into all this \> progress is exponential Evens, V. (2017) The Emoji Code: The Enquistics Behind at: https://beeks.google.co.uk/beeks/start/11nDwAACBAJ.

/interactional/cooperative intelligence

/understanding others have THOUGHTS, FEELINGS. WISHES

\> how can engage w those cooperatively >achieve shared goals

How far can we take it? What will never change? /bottleneck of communication = PROCESSING not MODES of comm in themselves \>speaking

\> Spanish > writing \> Chinese vs English

/FUNDAMENTALS of COGNITION

Functions of language (#42)

```
Functions of human interaction:
/ animal (see Terrence Deacon):
>-food
>-safety
>-sex
/ social:
>-chatting
--establishing/maintaining social hierarchies
/ societal:
```

>creating and maintaining societal systems - e.g.

government

Future of Emoji Proper (#43) / animated /Bitmoji \>avatar emoji

Evans on language evolution - Digital Age (#44)

```
[Notes from the book "The Emoji Code" by Vyvyan Evans, with some thoughts from me]
 / HASHTAG names "Children's Word of the year" 2015
 Vineeta Gupta - Oxford Uni Press:
 Under 13s USING HASHTAG new way in SHORT STORIES
  \>add EMPHASIS
   > signal comment
  >developed for use on TWITTER
 \> refers to WIDER CONVERSATION
   \> implies emphasis
  >SYMBOL not ICONIC SIGN (like emoil)
 \>more like lang
   > SEMANTIC DRIFT EASIER
  > Semantic drift - "over" = "above" > "covering" (clouds over the sun)
   \> we "unconsciously detach semantic flavours of words" from one situation>apply to other
 Evers, V. (2015) #language: evolution in the digital age; The Guardian, 26 June. Available at: https://www.thoguardian.com/media-network/2015/jun/26/hash-tag-language-evolution-digital-age (Accessed: 16 January 2023).
  > new forms of INTERPERSONAL INTERACTION > new forms of COMMUNICATION
   \> humans inherently cooperative > drive for communication
 SHAPING FORCES of DIGITAL on culture:
 /IMMEDIACY
  >today: social media updates, IM
  >before: physical distance > communication = travel or mail - DAYS/WEEKS
  >communicate with UNPRECEDENTED NUMBER OF PEOPLE immediately - Social Media
 \> ANALOGUE COMM.N:
    >SOCIAL NETWORK LIMIT = Dunbar's Number -150 stable social relationships
     \> COGNITIVE LIMIT
       \> link between PRIMATE BRAIN SIZE + SOCIAL GROUP SIZE
      \> something's got to give
       \> split the cognitive load?
         \> WEAKER relationships
          \> still have strong relationships
           \> also have EXTRA portion of MORE DIVIDED SUPERFICIAL RELATIONSHIPS
            \> SOCIOLOGY - RELATIONSHIPS, DIGITAL AGE, DUNBAR'S NUMBER
 Evers, V. (2021) "The Future of Communication", Psychology Today [Preprint]. Available at: https://www.vyvevans.net/_files/ugd/603c2_42a37debace1493ca9021e0b88c228c.pdf (Accessed: 16. Instruser 2023).
```

```
Evolution of language (#45)
  [Notes from the book "Why Only Us" paper by Chomsky and Berwick, with some thoughts from me]
      CHOMSKY, BERWICK - Why Only Us
      Berwick, R.C. and Chomsky, N. (2016) Why Only Us: Language and Evolution. MIT
      >language evolution NOT DARWINIAN as NO OTHER ANIMAL HAS LANG
       \> no Darwinian gradualism
      >CONTINUOUS APPROACHES wrong
     Pinker and Bloom (1990)
      >DISCONTINUOUS right
     Lenneberg (1967: Ch. 6)
      >indivudal genes can have LARGE effects on phenotypes
      What is language?
      The Basic Property of language:
      /every language is a "finite computational system yielding an infinite array of
      hierarchically structured expressions, each of which has a definite/systematic
      interpretation in "thought" and "sound"."
      \> systematic interpretations at interfaces with 2 other internal systems:
        \>sensorimotor system- [A:]
          \> what can tech do with this?
           \> new modes of articulation
             \> visual
             > haptic
              \> temperature
                \>represent any linguistic/conceptual duality
                  \> active/passive
                   > happy/sad
                   > positive/negative
                     > general affirmation/negation
                       \> no longer is "yes" the default mode - negation being the exception
                        > everything coloured with positive or negative
                        || > consequence of disinformation dystopia
                    \> happy/sad
               > proprioception
```

\> most biological functions (including comm.n) can be met by species w/out language

[A:] \> what is the next evolution of this - new HARDWARE: BCIs - process info even better

\> also "SOFTWARE" differences between humans and primates (Ohta (2020)) \> human NEURONES CODE INFO more efficiently than macaques Physik R et al. (2019) A

\> can DESIGN the SOFTWARE as ACTUAL SOFTWARE [/A]

Relationship between LINGUISTICS and NEUROSCIENCE problems (Ohta (2020)): 1-Ontological Incommensurability Problem - neuroscience and hypothesised linguistic

2-Granularity Mismatch Problem - GRANULARITY of hypothesised LINGUISTIC ELEMENTS

\>.diff cognitive functions

\> languages change but don't evolve

/Divide and conquer strategy (re "ring")

elements CAN'T BE MATCHED DIRECTLY

DOESN'T MATCH NEUROSCIENCE

/UNIVERSAL GRAMMAR has EVOLVED - NOT LANGUAGE

/GENERATIVE GRAMMAR

/ Universal grammar

Who has language?

1-Merge

Components of language:

\>operation - merges 2 syntactic objects 2-Interface to sensorimotor system 3-interface to conceptual-intentional system

> auditory >spacial >olfactory/gustatory

T/A1

\>inference > interpretation >planning >organisation of action >other "thought" stuff

\> LATENT SPACE CONCEPTS

>conceptual-intentional system - thought

>Pfenning et al (2014): songbirds and humans share neurological/genetic bas **VOCAL LEARNING**

\> already have ineffable quality - lend themselves to ineffable concepts

> birdsong and externalisation sound system of humans share something

As nonadiacent, dependencies, hierarchical structure, structure dependence of syntactic rules displacement (Berwick et al. (2011))

> nonhuman primates have similar limitations - Project Nim

When did language emerge?

200,000 (humans in Southern Africa) - 60,000 years ago > before 80,000 /Symbolic behaviour as proxy for language

/Basic Property - 200,000-300,000 y.a

\> genomic sequencing

How is the Basic Property implemented in the brain?

/Syntactic computation and deficits - one area (Broca's area) (good evidence) says /Lexicon (or features of "word like elements" used by Merge) - another area (Wernicke's area) (unclear evidence says Ohta (2020))

/"ring" combination of structures - moves info from one side to other to be used by Merge

- \>"ring" complete in adults, not in newborns
- > macaques and chimpanzees also incomplete
- || > "small rewiring of the brain" > functioning syntactic system with Merge Why did language evolve?

/tool for INTERNAL THOUGHT, NOT COMMUNICATION

Presentation of Context Report (#46)

[Return to me, Ash] / use red + blue discourse colours / use emoji

Harry tutorial 4 (V#47)

Harry group tutorial:

/ ideaspace-

18/11/22

/ Cherry: game - "Sky - Children Of THe Light"

People who aren't friends in the game can't CHAT - only use the body actions (emotes)

/ Noam Chomsky - language - thought and language

/ Do we need symbols

\> symbols vs words

/ symbol poetry -explore meaning

1

Not yet: / I must perform an alchemy of language

/ use Jung's archetypes in review of the language characters

/ must test

Harry tutorial 5 (V#48)

(22/11/22)

/Committment to actions, forms of realisation of my idea that allow me to

/Test it - idiot

Get other people to use it

\>See how others cope with it

\>See how it changes the way they think etc \>Standardized feedback form - research / guestionnaire

/ SPEAK TO SECOND YEARS to TEST \> may have more time

/Background reading on linguistics /Emoii books

/Read the papers recommended by that person

/Chat to her the professor /Joanne Long check ittt

- Research other conlangs

/Inter language communication attempts outside of language >Sign language

Long term goals: / Interview Sonia Lang - Toki pona creator

/ Interview other conlang creators

andom Inspiration (V#49)
[Image of the "eye inside chat bubble" emoji]
\> can we find out who proposed it, on the database - contact them?)
/ Lex Fridman interview with Mark Zuckerberg inspired some additions in >

Peter consultation 1 (V#50)

Consulted Peter (creative computing technician) re BCI application

/ need the hardware

/ ask around unis for hardware finding - Creative Computing - can't control the whole thing with BCI as we know

- Psychology N

How do you actually interact with it to articulate these things like how do you use a BCI to say "I'm happy"

\> maybe do do the tone one - use brain waves emotions

It's very Sci fi

But don't want to do

The language tone flavour idea:

Can I condense from my dissertation and articulate E. G. Leipzig-Jakarta list

Two strands rn - testing with language

/maybe make a website version - more accessible - can get people from different locations, can enter their native language and proficiency -can test and get a score - could even do a guiz to learn or design a tutorial and see if it works

\> good for jobs after - designing online tutorials for a system you design and engineer

\> would need server to facilitate the communication \> sockets

\> chat server client example

Actionables:

/ DUNCAN labs ask again

/ school of professional studies science and technology HUB

/ talk to creative computing - Yawen Chen thinking of

/ look Into eye gaze and biosensing

/ biosensensing maybe cheaper - e. G. Heart rate

\> Margaret mcmillan building 1st floor

/ are the emojis and symbols universally understood - what emoji or symbol would you associate with this entity or thing

/could we expand the one in one out based on usage bit - the PD BIT \> tyranny of the majority

/ could I expand postviralism - the manifestó

/ ask Gluseppe if goldsmiths can help me find bci stuff on my own

Over two weeks will. I smahs the hardware wall

Multumidak input - eye gaze, heart rate, conductivity

Jennifer George - head of computing

Co Head - Jose Van vekzen - head of psychology Co hwad- Guido - got photos of Contacts

Computing (St james office)

Jamie ward Max garagnani...

Matt Tutorial 1 (V#51) TUTORIAL WITH MATT 21/03/23 - not actually first, jsut first recorded

/ Getting a bci / still have to visualise - make sure to make renderings /

/ ...
// IF DO Participatory Design without freaking out about testing

\> deliverable could be a 1 minute film describing the emergent PD system

 $\mbox{\sc '>}$ mocking it up - allows for critiques and improvement befrienfinsk bit $\mbox{\sc '>}$ don't necessarily have to get it

/ Do mockups in 2 weeks cause bcis could fuck up very easily

/when people go to test tjigne they've tested it themselves a lot

/ the testing conversation deliverable

> definitely design and mockup the speculative bit - VRL

BCI Logistics (V#5

Max:

/ Not feasible in the timeframe to use BCI

\> so much coding

Maria HERROJO - ruiz

Ben Pimlot

> TAKES SO MUCH CODING JUST TO DECODE THE FEG SIGNALS \> ambitious project even for an Ma student

Computing might have some rudimental eeg Maybe contact VR director Svĺvia xueni pan

Would need a supervisor Maybe Peter Holland - is a GOOD BET peter.holland@gold.ac.uk

Computing or Psychology lecturer or anything Could ask Giuseppe for other people who supervise Jamie Ward - could ckrnacr - computing Peter

Dear Ash.

It sounds like an interesting project but unfortunately at this stage of the year I am unable to take on any more undergraduate students. There seems to be some confusion, I don't have a Brain Computer Interface (BCI). I do record some EEG and also do some VR experiments but am still working on combining these methodologies. However, turning this into a functioning BCI device is a very complicated project and one that I would hesitate to undertake even with a MSc student unless they had significant programming experience. It requires a lot of writing of complex code both in Unity (for VR development) and in Matlab/python for EEG analysis.

My advice would be to concentrate your project on the design of the interface and leave the BCI aspects as a topic of further expansion or for a MSc project. I'm sorry that I cannot help and I don't mean to discourage you from pursuing what is a really interesting project but I just wanted to explain the complexities of what it is you are trying to achieve and encourage you to pursue a project that is realistic within your timeframe

Best Wishes

Peter

Dr Peter Holland Lecturer, Department of Psychology Goldsmiths, University of London

Lewisham Way, New Cross, London SE14 6NW

Harry tutorial 6 (V#53)

/ Do I want to

/I need to to help me not hyperfocus on one thing and to make sure I'm multitasking - doing mockups as well as design as well as Poss testing (the Matt sceptical about that)

? maybe I use my meds two days a week only

/ VRChat = inaccessible - only PC \> smaller user testing base

\> CREATE WEB VERSION \> build ENGAGEMENT

> easier to modify quickly

Hierarchy of input methods/engineering: 1 RCI

\> unconscious (eventually?) \> so is (2)

2- Eye tracking

\> cheaper > easier

> more accessible ||> is it just a gimmick?

\> we are trying to get close as possible to DIGITAL TELEPATHY

\> more unconscious, the better \> less reliance on BODY

\> more accessible 3 - Web - keyboard/mouse

> Lessa accessible

For viva-Maybe mininhistory of conlangs

DELIVERABLES:

/ Web version of keyboard

ENERGY VIBE

/ Could it be a pitch format - see Viva as the BUSINESS ENERGY / ITERATION - avoid FIRST BASE thinking

/ make rule or something like odd days = mockup, even days, = hardware /coding

/ to multitask - make lots of things into one thing \> multiplicity -

Actionables:

/watch a video on how to multitask /ASD/ADD hyperfocus when working And when it works against you

/make a rough theme timetable

/make a rule based thing

/ Peter Holland - camp outside his door - HE MUST SAY YES - use the energy of regret for BrainControl

/two weeks for speculative bit mockups

/Duncan email

/follow up Duncan labs emails

/follow up USA person emoji communication thing - was it MIT MEDIA labs/communication labs?

Emergent Participatory Design Ethos (EPDE) Implications / Applications (#54)

\> valid communicative niche

Emergent Participatory Design Ethos: Designing the EPD Pathway / Participatory Design Worshop on existing symbols / Community-Drive Content Creation \> what does X Gram mean to you - list all possible meanings in order \> VRChat community-driven content creation / + proposed new symbols \> test together, then ask for suggestions / Metaverse(s) > ∆II seem to have C∆PIT∆I \ ~ CRYPTOCURRENCY > Virtual Land / Can we add money/capital and somehow make it an open source free and fair and equal and democratic metaverse \> open source? / Users can submit new keys \> suggestions or actual keys? > Suggestions \> reviewed by developer/team \> digital technocracy \s avoids user chans > Submit raw \> users submit raw tiles > appear in "new" category - most used go to "popular" \> eventually integrated \> how? > user chaos \> innapropriate suggestions \> what is innapropriate to "communication"? Sex and swearing are all important \> troll sugggestions - e.g. memes \> EPDE overcomes this - EMERGENCE IRONS OUT THE KINKS \> if a meme or troll suggestions was used enough, this JUSTIFIES ITS USE

Outreach and engagement (#55)

Advertising testing:

/ Advertising in VRChat worlds

>Points for copy:

/ Could use example problem - how do you say this "__" and give options

/ Phia "The Virtual Reality Show" YouTube Channel

\> Discord

> ask to post TESTING GROUP LINK on server channel

\> COULD HOST DEMO DAY/ PD workshop

/ Promote in VRChat worlds

\> create INTRUIGING AVATAR + explains it (can add keyboard as item

\> drop portals to POSTVIRALISM Hub

\> Mute worlds; ASL worlds; Foreign language worlds (e.g. Japan Shrine, Spanish world)

\> "No Time Two Talk" world - like VR speed dating

\> spent some time on this - gathered some awareness

/ REDDIT

- \> r/linguistics
- > r/conlangs
- > r/ability related

Incentives:

/ Research with Meesh revealed VRC users LOVE the idea they might appear in a video

- \> PROMOTE DOCUMENTATION
- \> start a YouTube channel \> start a website for it

\> integrate all (info website/YouTube/Discord links) into website for WEB VERSION OF KEYBOARD

Fostering a community:

/ Create Discord Server

/ Created VRChat Group: https://vrc.group/EMOLAN.0339

[Image of VRChat group created to organise people who want to test the VRChat version of the keyboard, and help build a community]

Promoting the web app:

Reddit post:

/r/conlangs

Title:

Hi guys, I just wanted to let you know about my emergent evolving graphic language 🗆 🗆 🗆 You can mess around with it on my chatroom now :)

[image]

(Like our fave, toki pona.) the language has only 121 morphemes or "grams"; but has a fluid lexicon of picto-ideo-graphic characters, that changes according to use! Anyone can submit new "grams", which appear in the "D" section - and will be automatically added to the core lexicon, should their usage dictate it. The least used grams will be archived - leaving room for the most used

EvoLang's lexicon 🗆 has no set definitions - only Suggested Definitions, which can be submitted and voted on (most popular definitions displayed first)

As a form of Participatory Design, EvoLang is designed to design itself to reflect the ever-changing needs of its userbase. While I would love to see a relatively steady core of grams become established, alongside room for more trend-related grams, it's totally up to you upon

It's also supposed to be easy to use from the get-go, regardless of native language ::

- □ acquired in minutes:
- □ mastered in days.

Suggested grammar:

The grammar, like everything else, is dynamic - EvoLang possessing only a Suggested Initial Grammar, of a form we are all familiar with: synthetic.

You know the deal: simple grams can be combined - suggested using "()" - to form more complex concepts.

As well as being intuitive, and easy to pick-up and start using immediately - the initial synthetic mode is intended to facilitate users in engaging with language in a more creative way - having fun and . Instead of waiting years to become a master wordsmith in a given natural language, users can experience the Joy of linguistic craftsmanship from day one - revelling in that moment taken to formulate a sentence, just the right way; especially when expressing more abstract and conceptual nuance.

Submissions are based on the fluid Content and Style Guidelines: user-submitted criteria can be upvoted or downvoted, determining their inclusion within the 10 "official" criteria for each (Content/Style).

The current chatroom is a very basic initial prototype.

The voting functionality for Content/Style Guideline criteria will be live in a few days (for now, criterion modification/addition suggestions and feedback can be submitted using the form).

Next, I hope to add a permanent history to the chatroom, and eventually, a Private Messaging function.

At the moment, users will only see messages sent during their session (which will be erased on exit), so if no one's there yet, feel free to drop a comment beneath, letting people know you're open to giving it a go with others - so you can arrange a time. Maybe pop your available window + timezone if you fancy. Accessibility Shadow Critic (V#56) / 11 x 11 grid could be difficult to comprehend / overwhelming \> processing disorders / generally \> stacking categories \> radial \> perceptual differences \> stacking UI modifiable \> radial > listed \> nested > expand on previous categories like TREE or > REPLACE - like page / Using colours for info excludes colour-blind individuals \> VRLang is designed to push the boundaries of communication, not as inclusive focused as EL \> inclusive nonetheless \> colours substituted with patterns or labels that say the quality in native language \> colour-blind mode \> colour-blindness varies \> select colours you can see - uses those and applies labels or pattern substitution where needed \> patterns could confuse the language between players

\> other players won't see the patterns \> make it obvious the substitutions describe SPECIFIC FUNCTIONS of the language

\> the function is what is learnt, not the qualia (/qualitative feeling of experiencing its representation)

\> qualia are not guaranteed to be universal anyway (how do we know my red is the same as your red)

\> what is important is those labels are the same, and the labels give them functions, as they communicate a shared aggreement of function and context

VRChat Keyboard Test 2 (#57)

Meesh + Yura - Meesh Trial 1 / Where does the keyboard exist? | > Be nice to use it in other worlds Could we build it into an avatar? "name, word, write, writing" = character for "point" and "Abc" -Eurocentric Using the pointing - character only works well for pointing to the words, not in the room, as the display is flipped and relative The definition

"Unusual, intoxicated,/drunk/high, foolish" Chinese participant - cheeky face

Yura -

// feedback for the sessions from Meesh

-more structure for the communication -maybe a challenge or prompt to communicate -like charades or something

-information about a thing you have to communicate to the other person

-e. G. 20 questions?

Tunic and Fez both have Conlangs

Way to meet people on VRChat:

/No time to chat/ no time to talk

```
Meesh Trial 2
```

/ Trialled "20 Questions"

> Watch video T#15a

>Link video T#15b

/Codeable games -

-charade game EASY - create random word generator - easy in udon - try to communicate image randomly generated

/ NEED "hestitation cues" - E/G/ - typing ellipsis on facebook

VRChat Keyboard Test 3 (#57)

/ multti-glyphs needs natural order to them so know whether using L-R,T-B; or clockwise, when using numbers to indicate which sub-glyph ina macro-glyph

/ need hover for suggested definition without typing it

/pansexual orgy = GENDER

\> word for FEMALE, not word for MALE

/.//think about learning order - so if "down hand" = "me", then follows that "two downdhands" = we

\> positioning ND ORDER nad stacking of concepts designates/inform smeanings/understandng

\> once initial connections/meanigns for particulat sGRAMSs is estaboshed, it can be ahrd to break

/ NEED DEDICATED characters for "CONCRETE" vs "ABSTRACT" \> dedicated character, obvious, one of the first ones you see

/ pin needs to be separate meanings - separate GRAM for "literal" and "at"

/ full stop needs to be smaller-/ gram for "black"/ dark

/because

">" more than, less than, arrows"

/ "do" should be one of first ones

\> BASE IMPORTANT VERBS together \> verbs could be together

/ make obvious priority to teach/learn "ing"/gerund/yerbs

\> verb/noun converters \> GERDUND symbol could be with the basic nouns

\> ##

/ focus group the symbols

/ we are painting with digital mud on vr cave walls

/ can you change

/ CAN THEY CHANGE PROXIMITY based on use - more commonly used combinations of words GROUP NATURALLY ENXT TO EACH OTHER

\> allow buttons to be movable and see what people do with them

"24" = shop PLUS inhospital?

|. NEED "institution"/"government/building" - the Greco-Roman Pantheon emoii

/ Need COHERENT VISUAL IDENTITY ||>

Context - Immediate (#58)

/ Currently: VRChat world \> GLUED TO PART OF POSTVIRALISM Hub

- \> prohibits use as a communication method
- \> VRChat is about exploring worlds \> VRChat version MUST BE PORTABLE
 - \> logistics
 - \> object in world?
 - > object attached to avatar?
 - > INTEGRATED INTO OWN METAVERSE
- \> create OWN METAVERSE centred on LEVEL COMMUNICATION

AND INTERACTION

- > Integrate with EXISTING METAVERSES
 - \> VRChat \> pitch to VRChat
 - > Other Metaverses
 - > NeosVR
 - > Altspace replacement

 - > Meta

Iterating the POSTVIRALISM Hub (#59)

/ add canals

/ a room with people's brains an dokabrs growing out of them, in water, long Canals with plants thriving in it - like in The OA $\,$

/ shutters above sceendow needs to be more like shutters - add shutter retxturelike shop shutter

/I am designing an entire communicative system - a society, movement, hub, ability aid and leveller,

Visual Identity (#60)

Need coherent visual identity < | | |> how upload? \to despign upload SUBMISSIONS visual SPECIFICATIONS \to CONTENT sspecifications - criteria \to STYLE GUIDE

Community Style Guide

1 - Grams should be visually distinct from existing grams, so as to be recognisable

2 - Grams should be easily readable at smaller sizes and with moderately impaired vision:

Ensure grams are readable at the size displayed on mobile

3 - Grams should simple and minimal:

Simplify your design and its parts until it cannot be simplified further without loss of communicative power (taking into account all possible meanings and the principle of polysemy)

4 - Grams should follow the colour scheme:

The colour swatches of the initial designs can be found here: <INSERT LINK>

5 - Line art should be <> points thick, and RGB black (#000000)

6 - Solid fill colours should be used where possible - avoiding unnecessary textures and photos

7 - Backgrounds should be RGB white (#FFFFFF), as should all uses of white

8 - Use a <> grid

```
Viva Y3 Communication Modes (#61)
 / DIALOGICAL
   \> RED-BLUE DEBATES - get creative
     \> TICK and CROSS mechanism?
  \> EXPLAINING DIAGGICAL DEBATES:
    > Socrates cautioned, on the invention of writing, that its non-dialogical form allowed for a certain " "
   > LINK TO HOW SPOKEN LANGUAGE has so much more "flair, nuance, fluavour, and ... COLOUR"
     \> Emolis emerged as an answer to this gap
      \> explain emoticons > emoji history super briefly
       > explain Danesi/Evans - Emoji fulfil these 6 elements that spoken language communicates, that are lost in the
 omission of paralinquistic and kinesic (body language) features.
   \> later, take this thread (and even repeat the on screen visual quote) of "flair, nuance, flavour, and COLOUR" or "flair,
 nuance, and colour".... "this... flavour...
   > and reprise it when introducing VRL
 / ALLOW THE TUTORS TO COMMUNICATE NONVERBALLY USING A VERSION OF IT SOMEHOW
 > walk in and begin it with
 "Wave" and
 Then " ahhh /fingers to lips gesture" - letting them know not to talk
  "□ point at them" + "□ Thumbs up" + "? Head tilt/ hands by sides □ questioning gesture"
 \> are you good? /how are you?
 >let them reply yes - hopefully with a thumbs up
 > "□ □ □ two hunbs up + maybe" perfect" gesture "
 > maybe prompt them to ask me
 >reply [ point to self] [ thank you gesture] [ perfect ] [ thank you gesture]
                  11> maybe use printed CARDS or TWO LAPTOPS
 / Emoii
 / Key/glossary
  \>at side throughout slides
  \> fold-outpage at back
  \> hand-outs
 / Add grams as the ledger/progress bar of the slides/doc - headings as grams
```

/ avatar speaking in VR video
/ dialogue between the AI and me

And feed that inri a vtuber software.

Using. Text to audio file. Simple. Google. Colaba For. Elenelabs eleven labs

Designing the engineering of web version (#62)

Designing the engineering / Path:

- 1-Create text server using sockets
- 2-Make available online
- 3-Allow sending EMOJILANG Grams
 - \> must allow easy UI modification later
 - \> stacking modes toggle see "Accessibility shadow critic" ||>
 - \> map images to variables for Grams
- 4-Attach definitions to variables/grams
- 5- Display definitions
- \> rollover
- \> only possible on desktop
 - > definitions section displays "suggested definition" for last clicked Gram
- \> have to click and backspace
- \> click separates user from rapid browsing / skim-reading definitions to find desired one > backspace adds extra work to each exploratory endeyour - dissafords use
- > definitions toggle button each key toggles between the Gram and the Suggested Def.n with a button toggle
- 6- Submissions
- 7-"New" section
- displays user submissions
- -displays AI "submissions" \> most frequently used combinations/strings of Grams concatenated
 - \> two / more glyphs synthesised adjacently
 - > glyphs synthesised abstractly
 - \> AI LATENT SPACE COMBINATION
 - \> combines image-based
 - \> combines definition/variable based
- 8-"Popular" section displays msot popular submissions

Engineering of web version (#63)

Engineering log

> created LOCAL websocket chatroom using https://github.com/websockets/ws

https://karlhadwen.medium.com/node-js-websocket-tutorial-real-time-chat-room-using-multiple-clients-44a8e26a953e

\> solved error by adding {binary: isBinary} in Server.js

https://stackoverflow.com/questions/53884481/websocket-send-ing-blob-object-instead-of-string

2 - Used Chat-GPT to generate a version of it

\> many falled attempts led to me understanding how to use tools like this, as well as

how to engineer programmes in general: >start at the un-differentiated general flow of what you want it to do and how, then

\> using the EMBRYONIC DIFFERENTIATIONAL LOGIC (EDL) of Brains, that fuels the evolution of LANGUAGE, and HUMAN CIVILISATION (in tandem) | | >

> after many errors trying to generate the entire project using Chat GPT, I asked it for an outline of how to engineer such a project, then got it to generate a backbone template by asking it to generate code for file X, then asking where it should be, then checking the file structure was correct, then running it, and REPORTING THE ERRORS > used Chat-GPT and Discord and Reddit and StackOverflow to help me TOUBLESHOOT errors in my template

\> gradually added more functions, one at a time, and troubleshooted one at a time

\(> \) used the EDL of the evolution of brains, language, and society, to refine a prototype by creating a rough outline, then differentiating each individual part using "experience" - e.g. exposing the file code to Chat GPT or help forums, and asking it why I doesn't do X, or how to add Y - allowing the code to evolve in a series of "interactions" - differentiating its purpose based on contexts of these new situations that narrow down specific functionalities it should have (adding functions) or not have (troubleshooting errors/removing or modifying broken functions)

\> In the process, I learnt things through a similar process of differentiation

-Fixed file name numbering issue

EXAMPLE "experience" that guided the development of the code:

/Grid won't display images

- \> asked on StackOverflow + Reddit
- \> "check CSS"
- \> CSS wasn't loading moved it to correct directory
- \> learnt importance of file-management (and how CSS and HTML interact) and also in process. learnt about using "./" to reference root directory
- 3 Combing through file names of the grams in order, adding them to a javascript array, I realised "gender/sex" should be next to "man/masculine person" and "woman/feminine

person", to highlight its other suggested usages of "gender-nonconforming person", "gender fluid/ity", and "androgyny"

[Image of experiments engineering the chatroom before help from Sam]

Harry tutorial 7 (V#64)

```
05/04/23 (did Meesh Trial 2 later that day)
```

/ Can we take away the speech \> create a toggle of "learning mode" \> both users muted

\> gameify it

\> points for remaining mute

\> can trial game without coding - just note down points and explain rules / Making the viva presentable - cut to images/videos

\> embed

/ Redesign the keyboard for portability

/ How will new submissions be

-submitted -displayed -used

/ 11x11 \> scary?

\> stacking \> do we need to be fixed to 121 characters \> constricts the language

\> that's the point

\> creates new mode of thought \> more creative

> more minimalistic

\> easier baseline for LEVEL PLAYING FIELD ETHOS (LPFE) \> simpler concepts less culturally sensitive?

> easier to comprehend for those with processing differences \> harder to construct?

\> requires less memorisation - good for those with trouble/ aversion (learning style also) to ROTE MEMORISATION

\> encourages KINESTHETIC learning \> contextual language development \> how Natural Languages are learnt

> EMBRYONIC DIFFERENTIATIONAL LOGIC OF

BRAINS

> easy to learn

\> can we expand to allow IMAGE SEARCH use \> so many CONCRETE NOUNS easier to show with picture \> restricts drive to use the SYNTHETIC LOGIC + creative mode \> maybe use IMAGE SEARCH for OPTIONAL LEARNING MODE

/ How will it grow and gain users?

/Immediate to dos:

Play 20Qs with Meesh

Encouraging Learning (V#65)

I> EXPRESSIVE PROFFICIENCY SUB-MODE \> message comprehension points only awarded to INTERPRETER

```
Gamified Conversation:
                                                                                                                      Actual games:
/ Can we take away the speech
                                                                                                                        \> 20 Questions
\> create a toggle of "learning mode"
                                                                                                                        \> Guess Who
  \> both users muted
                                                                                                                         \> Improv Games
    > gamelfy it - GAMES ARE BIG DRIVE FOR ORIGINAL TA - VRChat users, isolated, disabled (all the POSTVIRALISM
types)
                                                                                                                      || > add suggestions to wall of POSTVIRALISM Hub "Communicate" room
      \> points for remaining mute
        \> points for
            -minutes mute
            - messages sent while mute
             \> skill and PROGRESS should be rewarded - not just effort
              \> other user ticks whether understood
                \> yes; no; some of it/gist; not sure
                  \> yes: +4 points to receiver
                      \> outward profficiency should be rwarded as well as interpretational comprehension
                       \> both get points
                         \> both get equal number of points
                          \> equal points for all types of interaction?
                           I\> ONE score
                            \> COOP MODE
                             \> beat highscore
                               \> leaderboard
                                > pair high score
                                > individual high score (regardless of interlocutor)
                                 \> both gain METAPOINTS/rewards for beating high score
                                  > points from each game added to personal TOTAL METASCORE
                                  \> badge of honour - can add to BIO 
\> UNLOCK DIFFERENT LEVELS
                                       \> beginner: intermediate: advanced
                                        \> gain DISCORD/VRChat group ROLES
                                          \> increases sense of pride
                                           > EXPERTs can opt into "TEACHER" role on Discord/VRC group
                                            \> generates LEARNING ENVIRONMENT - follows EPD Ethos
                                   > shows
                           I> turns game from COMPETETIVE to COLLABORATIVE
                            \> reduces competetive drive
                                \> add VS MODE
                             > increases camararie + feeling of connection
                              \> promotes idea of communication as a two-way street
                   > no; no points for COMPREHENSION, but may get points for remaining mute - maintains
confidence/sense of progress
                  > some/gist: +2 point
                  > not sure:
                   \> dialogue: "Ask for clarification/validation (unmute)?" - unmute button
                    > receiver asks for validation
                     > sender receives dialogue "rate interlocutor's comprehension of your message":
                       \> points to "thumbs up" = +1 point; "~ (qist)" = 0.5 points; "thumbs down/?" = 0 points
                        \> "well done!": "nearly there!": "maybe clarify with a question?"
 I > VS MODE
 t/ Points weighed toward sender or interpreter?
/ Points the same, but INDIVIDUAL SCORES
  \> won't scores be equal?
   I\> COMPREHENSION sub-mode + EXPRESSIVE PROFFICIENCY sub-mode
      \> also allows practicing of different skills separately - focus on weaknesses
   \> conversations don't necessarily have to be in single, alternating messages
    \> some may require multiple messages
     \> rewarded for being verbose/arbitrarily speaking about more complex topic
      \> more messages sent per turn also affords opportunity for more messages COMPREHENDED per turn > evens out
    I> COMPREHENSION SUB-MODE
      \> message comprehension points only awarded to SENDER
```

Tutorial:

Designing the self + Metamapping (#66)

Reflection on previous projects:

/Metamap problem

\> don't put things into metamap directly as builds up - don't use it to full potential

\> metamap takes time to launch - turn on PC, launch Illustrator, find relevant page \> use paper - add to metamap later

\> can't copy and paste

\> use Google Doo

\> causes distraction

\> idea of linkages to new pages and new concepts for new pages leads to constant

page-creation and MOSTLY EMPTY PAGES

\> that's the whole point - the linkages are vital

> MANY QUARTER-FILLED PAGES with room to expand later is better than filled

pages with no room to expand \> empty space AFFORDS ADDITION and EXPANDING OF IDEAS

\> distracts from current task or just viewing Metamap

\> use LIGHT GREEN INTERPAGINAL LINKS COLOUR to indicate "expand idea to new page later

> \> light green should always indicate an ACTUAL LINK \> this is what PURPLE IS FOR

\> add symbol shortcut for "make new page later if needed"

\> purple pen: "[P?]" \> too close to "|P|" (pauses red-blue debates)

\> [NPg?] - new page

> create-page: fill page ratio off

/ Hyperfocus problem \> waste time hyperfocussing on project/idea/mini-task X, to the detriment of Y and 7

\> balance with the metamap distraction energy \> ensure to visit the Metamap at least twice a week - allows PERSPECTIVE

\> won't remember \> timetable it

\> build up Metamap to become scary by adding lots of info in Docs to add to

it later \> timetable Metamap visits 3 x a week

\> keeps info-addition debt levels (and so avoidance of Metaman)

> maintains perspective to prevent toxic hyperfocus

I> may avoid on timetable due to INFO-ENTRY / TASK DEBT LEVELS

\> don't do INFO-ENTRY on every viewing \> want to keep INFO-DEBT levels low \> to acomplish that you must actually look at the Metamap \> first visit of week = no INFO-ENTRY - just LOOK

\> concretise the ethos of regular visits for the sake of perspective and low INFO-ENTRY DEBT

\> ethos branding: Visiting Metamap Thrice A Week Maintains Healthy Project-Task Perspective And Keeps Info-Debt Low

\> VMTAWMHPKIDL (vimto and wham hove park kid life)

+ Don't Have To Expand Every Idea Now \> use [NPa2]

\> to give NPG weight, we must actually come back to it \> importance of REVIEWING Metamap

\> requires VIEWING

\> DHTFFIN

\> DETAIN - if need to - WRITE "DETAIN" in the text flow as a way of reinforcing this ethos and calming the obsessive part of you that wants to expand it now \> the part we must DETAIN

\> detention is TEMPORARY and INDEFINITE

"Vimto and Wham Hove Park Kid Life" synthesises my old. Hove Park (High School) work ethos, my sense of play (getting Vimto and Wham sweets after school), and my ambition (Wham)

\> "Put Vimto and Wham Hove Park KID Life In DHTEFIN-tion" \> reminds me to regulate that energy with the DHTEEIN energy Designing the web version (#67)

User Interface

/ 11 x 11 grid >harder to control with other inputs than mouse (e.g. BCI) \> that's the point \> affords CREATIVE SYNTHETIC THINKING MODE (CREATIVE-SYNTHETIC COGNITION (Mode) \> can't say much \> suggested grammar/ SUGGESTED COMBINATIONS fill in extra base concepts \> have their own gram if sufficiently "core" \> not if their construction from existing grams is simple (can't waste grams/tiles) \> SUGGESTED COMBINATIONS generated from most commonly used > SUGGESTED COMBINATIONS could be VISUALLY SUGGESTED AS POTENTIAL INPUT, when using initiating gram in the seque \> hold down gram tile to view Suggested Combinations (like emoji variants) \> have to think to do it > Suggested Combinations given automatically \> integrate with Message Input Field - like Autocomplete \> display half-opacity PREVIEW of mouse-over-ed gram in Message Input Field \> show suggested combinations after it, stacking vertically (overtakes Message History rather than current message) \> differentiate from selected gram > lower opacity? \> too low to see (if lower than already half-opacity gram preview) >see all available units together \> affords experimentation \> affords SYNTHESIS \> having them visually available means words from DIFFERENT CATEGORIES can be SEEN at the same time - affording the CREATIVE SYNTHETIC THINKING MODE we are seeking to cultivate / Stacking/nested categories

[Image of UI sketches for the User Interface of the emergent Emojilang / EvoLang keyboard chatroom, for Sam to help me engineer]

```
The ratios on the second drawing are supposed to be roughly exact, with some padding where
needed. 1 square = 1 tile, assuming a 9:16 aspect ratio.
```

Current sheet. Please let me know if there is a better way than the semicolons, and whether or not I need to put them (or whatever we chose instead) at the end, as well as just separators https://docs.google.com/spreadsheets/d/1DCASLUtW7XOzCiQZ5 Pjm92oMwTUrupd34GRqiTVSE/edit?usp=sharing

```
/ Definitions order sorted by number fo upvotes by default
 \> can choose "Sort by": "upvotes (default)" or "new"
```

\> need to maintain the emergent power of the upvote

\> always returns to "sort by... upvotes (default)"

\> need to resist stagnation of evolution by upvvoting becoming EXPONENTIAL

\> more experienced users can keep "sort by upyotes" as per

> new users can't

Need gram: figurative meaning indicator

/ Engineering Issue

\> use whichover is lowest

stacking/overflowing function

spreadsheet to reflect that.

favourites)

Translation -

to-ideogram-words, forgot to mention)

\> CSS grids not designed to allow this

/ create a separate UI for the mobile version

\> if 11 x 11 grid fits to viewport width, its square shape will overflow off

\> if 11 x 11 grid fits to viewport height, portrait orientations (like mobile,

or non-fullscreen desktop windows), will cause overflow/bleed horizontally

/ see if possible to allow anything like the mobile version to be constructed from the desktop version automatically, using some sort of

Substitution Language (eventually) - set language - perhaps ignore for now, but be

good to keep in mind possibility of adding a second language (could we

later change the formatting to "Username-Language-Suggested transla-

tion" instead of the used "Username-Suggested_translation" format? If it's

New - Display recently added grams (my name for the key-glyph-pic-

Popular - display grams with highest no of clicks (or later - upvotes) in

("s_translations") display short default (Ash) and user-submitted strings

while "Suggested Definitions" ("s_definitions") display longer default (Ash) and user-submitted strings (that can eventually be upvoted or downvoted-

affecting the corresponding scores column, and so, their ordering in the

clicked alongside whatever is mouseover-ed, in the following format: Suggested Translation + Username of submitter + Suggested Definition

The entries can be scrolled along and each "Suggested Translation" and "Suggested Definition" can be upvoted/downvoted individually.

Favourites (eventually) - display favourited grams (RMB > add to

Recent (eventually) - display client's most recently used grams

A new property has been added - 'Suggested Translations'

"s_translations_scores" column of the Sheet)

"Translations" window (bottom).

(that can eventually be upvoted or downvoted - affecting the

just as easy to add an extra variable for language in this way. I can edit the

Planned functions emerged from engineering the grid with Sam

bottom of page in landscape orientations (like desktop)

Need gram: noun converter (anchor) separate from literal meaning indicator (pin)

/ least used grams being archived could lead to lesser used but integral grams being used - e. G. Punctuation

\> up votes?

\> algorithm?

/ while creating submit form: Form says specifications beneath upload button

426 x 426 px png That conforms to style guide

\> rules? \> NO - authoritarian

\> guidelines

\> anyone can suggest ammendments to guidelines - criteria

are voted on - upvote + downvote

\> set number - lowest archived (same principle as grams)

\> style guide works in same way
\>list of criteria that can be individually voted on

||> how express this emergent feel in branding / UI

Hitting the Translation area's magnifying glass icon would toggle the definition overlay of the definition with the highest score. \> "Community(-Led) Guidelines" + "Community(-Led) Style Guide" The area itself shows the entry with the highest score, for the gram last

```
Planned Expansion Roadmap:
```

/User accounts /automated submissions / persistent chat history /personal messaging

/social network-type functionality \> could it become a social network?

Side projects:

```
/ Create Al that can use Evol and
-langchain
-prompt you can only use 121 words
 words and definitions in databasd
-teach it how to parse the Google sheet database
-give it a grammar doc with examples and translations
 Programme in example training sample translations of different types
-including basic synthesis of larger concepts
-could we later train an alpaca model on this?
-trial it super quick using Toki pona and the Toki pona manual feeding into gpt
```

Excerpts from Context Report - Dissertation (#68)

[this page shows exercerpts from my Context Report / Dissertation]

PROCESS.

TRADITIONAL LINGUIST'S VIEW

Traditional Linguistics views language as evolving analogously to biology-primarily through Natural Selection.

Such a view is useful at the micro level, as new words and structures can be seen to arise from Mutation¹¹ in the genetic structure of languages¹²; and like biological Mutation, variant elements can be created from errors in replication¹³, as well as external forces³, and individual modifiers⁴. Useful variants are then repeated, until so widespread as to become "standard"

Darwin himself noted this Linguistic Selection of "better... shorter...and easier forms" eir, for example, the regularising force on verbs over time, due to regular forms being easier to learn.**

While many early Darwinists were linguists, and championed such parallels with napsuage," most modern linguists remaining tiled to this instrumental explanation," its 'important to note that languages, like genes, also change "saelectively", through "stiff"; coultion through random fluctuation in gene/word Tequestry. This "moconscious change in natural languages" (e.g. spill vs spilled) creates new dialects, that, like Speciation, eventually become so distinct as to be classified as different languages (species); though we must remember the adage that a language is simply a dialect with an army, and that dialects/languages form a continuum

- ii Change in the structure

 II Change in the structure

 Inguistic structures and just a biological generation structures are unique herevere individuals, to too are

 Inguistic structures so to people having the same wo-challary, set of associated concepts,

 in Genetic Transcription 4% shole so there thing 'the "speciests' "begap the question" is

 Mutages and an radiation or cheating manages step care transport social forces the proteing and Covert Perceipe (se lare discussion) political-logicamistical forces like The

 Academies Transport, boarded in Intiffy to Cardial Register, but of matters to bligs. Loss XVIII, to

 views "coinage" by junishing the Register, and the structure of the

- Hereafter: "NL"

Although our focus is on language evolution, on a wider scale, the language USE that shapes such evolution, could also be examined through the lens of the more specific, micro-level factors of the individual, such as individual psychology,(mental) health, age, impairments and disabilities, and personality/costyles (including extravertedness and neurodivergence).xee

SOCIAL

In a similar wein, socio-demographis or Internet use reveal a pattern of ine-quality: Internet use lower for older, less affinent, minority group, less ochracted, and rurally located individuals**—meaning such groups may gel fet behind in this Third Industrial (Digital) Revolution, and its increasing technological sur-rogogo of social functions: including initiation***, maintenance**, and legitimisa-tion** of relationships.

TECHNOLOGICAL

As the extension of our Selves (selves that are inherently social and contain desires, knowledge, and meaning) into the material realm, technology is communication.

Firstly, its apparatuses, Technics, constitute a physical history of Humanity an extended physical form of not just episodic memory in the arthroll information of the procedural memory that the instruments that enables and to some extent, enabody our practices and procedures. In this way, every Technical Instrument is a symbol, acting as a centre for the collection of concepts and possibilities it represents and often, enables "", refined through EUL during Invention". All Heidenger would point our instruments hap our interactions with the world."

Language is one such technology - languages collections of symbols and rules rules that allow the arrangement of said symbols to convey meaning. We design this technology in every use of it - each word constructed from letters in a certain order, each sentence constructed from words similarly - each and

- In a certifical COMP, each SHIFTENCE CONSISTENCE ITOM waves assumed y "wave build, lower, even to some of these dimensions in the impact of technology/ using development in the contract of t

MODERN VIEW

Following this broader vein, a more nuanced view of Evolutionst emerges from Stiegler, who frames technology (and so Language) as the creation of "artificial organs that overcome maladaption". 28

Terrence Deacon expanded upon this, to conceptualise Language as a system of symbols, passed down generationally; human cognition and language coevolving with the culture they enable and create. He argues that this invisible world of conwhen the culture they enable and creat rate argues that this invisible word of con-cepts and practices guides the construction of each human's brain, through the Embryonic Differentiational Logic⁴⁴⁰ of neurology, which relies on experience to differentiate the multipurpose puliprotent necoordress. These humans behaviour is then guided by these further brains as they further culture and language - evolving the PSCPEs that shape further brains.

FACTORS/FORCES.

Such evolutionary processes shape communication's development through a rich contextual tapestry of interwoven factors and forces:

INDIVIDUAL

Guy Deutcher gives Three "Motives" Of Language Change³:

- Economy the principle of least effort^{sts}- people will always take the easiest
- e.g. Digital Age abbrev.s make up 4 time lost typing esp on older alpha-
- e.g. Emoji^w ppl use emoji in some situations as EASIER
- For example, the use of Emoji to articulate emotional affect.
- Analogy (order) the mind's tendency toward order/regularity
 For example, the aforementioned regularising force on verbs.
- Capitalised here, to highlight its use as a particular and defined process and theory (de either usually being capitalised either) An extension of the views of Leroi-Gourhan

- An extension of the witers of Landscape EDI.

 Akin to the "shorter" and "easier" of Müller's "better... shorter... and easier forms"

 Note the difference between "Emoji" the communication system, and "emoji" "
- * the symbols themselves Akin to the "better"

every use is a Prescriptivist action. "". We base these usages on tradition, enabled by the archives of Technics Witting systems and speaking systems are Technics we use to store and share meaning: 10 communicate. And as we construct our messages through these systems, they necessarily shape our communication—and consequently, our choughts, desires, meanings, knowledges, and perceptions of the world-all of which determine our actions. By Deacon's view, such communications and settions construct the world spechoscolat and nativalities construct the world spechoscolat and nativalities." live, which in turn, shape the future generation's brains that will go on to further evolve those worlds.

As our actions, cognitions, and worlds are shaped by our technologies of comication cor, they who shapes our CTs, shape our entire lives

Putting aside individual languages, the most intentionally designed CTs of today are Digital Technologies^{xxxl}

xxiii A judgement on how usage should and does work
xxiv And, I would add, the Idealist quasi-material - the perceptions and phenomena that we
treat at the material would and that constitute our individual mental perceptions of it
xxv Communication Technolog/set - CT/6
xxi DTs.

Digital communication and contextualising Emojilang and VRLang (#69)

[return to project designing for EmojiLang / EvoLang and VRLang]

Types of communication:

.,,,-----

1-linguistic - EmojiLang
2-paralinguistic - tone of voice, body language, facial expressions

2-parall III guistic - tone or voice, body ranguage, racial expressions \> voice can be MODIFIED - currently use voice changers for articulating IDENTITY (like avatars) - what if we use them on a more MICRO-SCALE

\> MICRO-IDENTITIES - VRChat avatar use alongside social media profile, concretises OUR PERSONAS, the naturally evolved multiple facets of our personality/identity, into MICRO-IDENTITIES \(\) research.

\> Duncan

\>PICO-IDENTITIES(pushing us into 3rd category of METALINGUISTICS) \> the vehicles of tone, intension, and STANCE, that we inhabit and morph through within individual conversations

3-META-LINGUISTIC

PICO-IDENTITIES

Articulated through all Modes Of Articulation (MOAs) - in VRLang ||:

Modalities for VR language 2 (#70)

Modes Of Communication (MOAs)

```
\> appearance
\> behaviour
\> behaviour
\> kantion
\> KANT

/VOICE
\> Al voice changer
\> detect tone and enhance
\> and new information - plcoIDs
\> apply to all types of TONE
\> emons
\> benediction
\> assertiveness / imperative
\> reinforcing/ redefining relationship type/strength
\> formality/informality
\> \> try applying other aspects of language
\> English
\> louisvity
\> reporting
\> reporting
\> reporting
\>
```

/environment

> wide-angle > lens specifications \> aperture

/view

/avatar

```
\> filters (colour, texture)
\> perspective (speaker, interlocutor, outsider)
   \> IR sees self from speaker's perspective

    slessifity
    speaker and interlocutor together (we-inclusive)

    interlocutor sees self from speaker's perspective, but viewpoint multiplied (via
ltiple "cameras") - to simulate many others from same side /similar position to

multiple
speaker
\> motion/refresh rate
  \> onion-skinning frames 
\> tiredness
  \> motion exagerrated (motions of users multiplied to extend beyond input)
     \> excitedness / energy / momentum
\> definition
\> aspect ratio
\> 3D depth
   \> make world more or less 3D - like slider on 3Ds
\> camera lens modes
   \> lense types
     \> fisheye
```

\> increase/ decrease focal length with virtual bokeh
\> any spectral linguistic feature
\> emphasis: "very not - neutral/unsure/binary - very"

\> formality-intimacy

Designing the design of VRL language (#71)

VRL Roadmap

1. List all (v) FEATURES OF COMMUNICATION (within following Socio-Informational Dimenions/Communication Modalities):

\>Linguistic \> Paralinguistic

\> Metalinguistic

\> reclaim/define existing - e.g. modification of environment with actions (e.g. marking territory by "decorating" a space)

\> define new - VRL

- 2. classify linguistic/paralinguistic/metalinguistic (LPM) features into
 - \> binary/declarative
 - \> categorical \> spectral
- Classify Modes Of Articulation (MOAs) into > binary/declarative
- \>categorical \> spectral
- Define Qualities Of Perception (QOPs)
 Kant's Categories of the Understanding

\>? Neuroscience?
\>? Dennet/Chalmers?

- Create spreadsheet/document of possible combinations of LPM features and MOAs (and maybe QOP)
- 6. Cherry pick/highlight most relevant/matching
- 7. Create spreadsheet/document of chosen usages, APPLYING QOPs
- Mockup chosen usage examples
 At model for VISUAL MOAs
- 9. Define the vehicles by which these could evolve through usage, emergently
- 10. Speculate possible examples of said evolution
- 11. Mockup examples of evolution

Design Research Methods

/ train a Dream Booth or other (more object or digital focused) model on a token avatar, environment, and generated form (visual MOAs)

(Maybe all together maybe separate \> you can combine models)

/Use AI MODEL of VISUAL MOAs to add linguistic flavours of LPM FEATURES to VISUAL MOAs using TEXT PROMPTS (of LPM features)

\> go through all the parts of speech (noun, verb etc)

\> go through all linguistic features

Design considerations

>learning all the complex grammar takes a long time and is difficult

\> language should be constructed using the Embryonic Differentiational Logic of brains and LEARNING

\> we learn through context and differentiating what is appropriate in a context from what isn't

\> need a basic scaffolding

\> basic scaffolding should be obvious and easy

\> he does this, I am that

> simple past, present, and future tenses (before DIFFERENTIATE down to sub-tenses, like "past perfect", "past pluperfect")

> FREE MORPHEMES /affixes over INFLECTION

\> lose so much cool potential

\> have inflection in a way that isn't NECESSARY to understand the BASE meaning

\> inflection should be COMPLEMENTARY - not DESTRUCTIVE/SUBSTI-

> e.g. NOT 'he was eating the sweet', but 'he' 'ate' 'sweet' + FREE GRAM (morpheme) for 'IMPERFECTIVE ASPECT INDICATOR' or NON-DESTRUCTIVE "FLAVOURING" (inflection) (e.g. 'eat' rotates or vibrates to indicate ongoing action; 'eat' is a different colour).

\> can still understand GIST of sentence with BASIC PROFICIENCY

Reviewing the Grams (#72)

Inspiration for review/adding new:

-countries
/kant's categories
-relation

\>because, for example,

/testing feedback - add glyphs

Kant's Categories

```
/
-relation
\>because, for example,
\> don't have
\> mostly GRAMATTICALLY CONSTRUCTED
```

\> suggested grammar tutorial

 \rightarrow because: this/thing/pin + = + ? : this is why

Refining

```
/ refine + reduce to 121
\> 121 is limiting
\> that's the point
/ 2 products - expanding and fixed lexicon systems
> designing too many products
\> FIXED-LEXICON System = main product
> keep and present FILLE EXPANDING LEXICON as
a separate system that could be tested on its own
\> see which system creates a better language
\> which do people use
\> FIPE FINS
```

Designing the VRL language (#73)

1.List all Features of Communication

Linguistic

Morphology (study of words, their formation/derivation, and relationship to other \> words organised into LEXICAL CATEGORIES/WORD CLASSES(/PART OF SPEECH):

\> each have GRAMMATICAL CATEGORIES (/g features) \> one of set of VALUES(/PROPERTY/MEANING/FEATURE of the CATEGORY)

LEXICAL CATEGORIES:

> proper nouns

common nouns

\> count(able) nouns (e.g. chair, nose, occasion) \> can be PLURALised

> can combine with NUMERALS

> can combine with COUNTING QUANTIFIERS ("one", "two", "several", "every",

"most")

> uncountable/mass nouns (e.g. "furniture", "wood")
\> often MATERIALS/SUBSTANCES (metal, wood), liquids ("water"), powders

("sugar", "salt", "plaster")

\> some nouns can be used as countable or uncountable ("rope"/"three ropes")

\> some have different "senses" as mass/count nouns ("paper" as a material, "a paper" as an academic work ||> Use "ENVIRONMENT" mode to indicate UNCOUNTABLE NOUNS

> "a piece of paper" = "paper" gram alone as a form > "paper" as a material = "paper" gram APPLIED TO ENVIRONMENT \> as texture - all environment becomes "paper" texture

\> could be disorienting \> only part of environment - dependent on other grammattical features

> e.g. texture of walls = ABSTRACT NOUN FLAVOUR; texture of floor = CONCRETE NOUN FLAVOUR "paper" gram + "academic institution" gram COMBINED

\> combined as 3d objects > combined as glyphs

> sequentially linked (e.g. "paper" THEN "academic institution") \> requires word order - restrictive \> formationally linked

\> glyphs connected so touching (at line-art level) > abstract synthesis

\> use AI to combine the grams for "paper" and "academic institution" >

new gram for "academic paper"
\> lose synthetic nature - derivations construct new language with just as

many words as a Natural Language > endless possibilities

\> latent space concepts > harder to learn

\> translation to user's Natural Language shown (optional) in text \> BCI: when detect confusion

\> collective nouns - refer to groups even when used singularly (e.g. "committee", "government", "police")

\> concrete nouns \> abstract nouns

\> noun phrases (e.g. "the cat sat on [a dear friend of mine]" \> use BOUNDARIES/visual grouping to indicate a NOUN PHRASE or SYNTHETIC NOUN (noun made of multiple grams)

\> EmojiLang uses parentheses for general grouping - can be used for noun

\> VRLang could be a BOX or 3d AMORPHOUS BUBBLE that loosely "wraps" concatenated object

\> case system - EL uses "pin" to mean "here, place, literal meaning indicator. NOUN CONVERTER

\> VRL could use COLOUR of boundary to indicate CASE (whether thing is

subject, direct object, indirect object) \> or attach SYMBOL like the "pin" noun converter to the edge of the

2 yerh

\> can be "inflected" (modified in form) to encode TENSE, ASPECT, MOOD, and VOICE

(diathesis)

valency (how many arguments a verb takes) >intransitive verbs \> verb only has SUBJECT - e.g. "he runs"; "it falls"

\> verb has SUBJECT and DIRECT OBJECT - e.g. "he eats fish"

>ditransitive

\> verb has SUBJECT + DIRECT OBJECT + INDIRECT OBJECT - e.g. "she GAVE John the

watch" (>copular (linking) - "be", "seem", "become", "appear", "look", "remain")

\> e.g. "his mother LOOKED worrled"; "his daughter WAS a teacher" \> EL - "be" double lines linking predicate adjective/noun to subject

(>Avalent: verb has no subject or object - e.g. Mandarin Chinese weather verbs - "snow" ~Spanish "llueve" - "it rains")

> non-finite verb forms \> infinitive

> gerund (verb as a noun phrase - "-ING")

\> e.g. "John likes eat-ING cake" > participle: has characteristics and functions of VERBS and ADJECTIVES \> e.g. "LAUGHING face"
\> past participle ("lookedED", "endED"; spokEN, eatEN)

\> present participle ("-ING" - doing a thing - e.g. "John was eat-ING cake") 3. adjective 4. adverb 5. pronoun

\> SPATIAL prepositions \> location: "in", "at" \> spatial relation: "in/inside", "out/side", "under", "towards", "behind", "in front" \\ temporal relations: "before"/"after_inext"/'previous", \\ semantic roles: "of", "for", "with", "b", "at" (e.g. "good AT"), "by"

\> "the cat is in the hat" = "cat"

\> e.q. "yes", "no

6. prepositions (aka adpositions as includes prepositions and postpositions) \>(express SPATIAL or TEMPORAL RELATIONS; mark SEMANTIC ROLES)

\> Non-English \> "na" (Russian): \> spatial prepositions SHINE in VR

\> relations are subjective - e.g. my \> may have to be combined with t front of" could be your "behind" "VIEWPOINT" mode, which shows the interlocutor a snapshot of the speake ewpoint

am shown inside of larger, encompassing "hat

\> gram could be obscured if made

\> could enlarge just/including t object, indirect object, verb) - outline box for that part of the sentence (subject, direct e grams with that colour and make the box that colour (case colour) to link the grams

7. conjunction 8. interjection 9. article/determiner ?10?.(sometimes) particles

GRAMATICAL CATEGORIES: 1.Tense Aspect \> how the action/event/state denoted by a VERB extends over time

>Perfective - bounded/unitary events - (e.g. "I helped him") \> no reference to flow of time

>Imperfective - situations that exist CONTINUOUSLY or REPETETIVELY as time flows \> (e.g. "I was helping him"; "I used to help people")

\> feature of VERBS signalling MODALITY / attitude toward statement

sindicative >interrogative > imperative > subjunctive

injunctive > optative potential ?> Reporting

4. Voice (diathesis) >active voice: SUBJECT is AGENT/"do->passive voice: SUBJECT is TARGET of er" of the verb action ("the cat ate the mouse") the verb action ("the mouse was eaten by the

non-English: >middle voice: subject PERFORMS AND RECEIVES verb action
\> (active: "Lucy cooked the casserole in the oven"; passive: "the casserole

\> (active: "Lucy cooked the casserole in the oven"; passive: "the casserole was cooked in the oven by Lucy; middle: "the casserole COOKED in the oven by Lucy") 6. Person (1st person, 2nd person, 3rd person)

\> Also see "clusivity"

7. Noun classes - English only expresses it using pronouns "he/him/his", "she/her/hers", "it" + gendered nouns like "actor/actress"

Other languages: >Gender >Animacy - how sentient/alive

>Human/non-human \> COULD WE SEE AN AI/HUMAN NOU CLASS DEVELOP???

>Strong/weak >Augmentative/diminutive

>Countable/uncountable >Shape

 Locative relations (location)
 Some languages use CASE, TENSE, AGGLUTINATIVE LEXEME (PREPOSITION) ADJECTIVE PARTICLE)

Non-English (mostly undefined)

9. Clusivity

10 Gender 11. Case 12. Definiteness:

\> English: (uses "determiners") "a", an", "many", "some", "[number]" \> English: "the", "that" (determiners "my" (genitive (case) noun phrase)

imatical category (2022) Wikipedia. Available at: https://en.wikipedia. matical categories (no date). Available at: https://www.unisa.ac.za/sib windex.php?title=Grammatical_category&oldid=1089829403 (Accessed: 28 April 2023). rpprate/default/Unisa-Open/GIR-III-Unisa/Linguistics/Grammatical-categories (Accessed: 28 April 2023). words ALSO organised into LEXICAL CATEGORIES/WORD CLASSES

>Definite

Semantics

Paralinguistic

Metalinguistic

\> define new - VRL

used in Context Report

>import from other page - criteria and examples

\> reclaim/define existing - e.g. modification of environment with actions (e.g. marking territory by "decorating" a space)

Kant's Categories of the Understanding (V#74)

[this page shows notes on Kant's Categories of the Understanding, which I used for my VR language, VRLang] / What pure concepts of the understanding are required for sensory

experience / Other Rationalists - look at universality and necessity

/ Kant - yes - look at universality and necessity \> Categories must be UNVIERSAL and NECESSARY \> also look at LOGICAL JUDGEMENTS

categories of **objects of possible cognition**, not of the thing in itself

... judgement: Judgment applies "the concepts of the understanding [the Categories] to phenomena."

Categories

1.Quantity

a.Unity (/UNICY) - ONE THING- every "thing" is unique - (object, thing, this, that, the)
->J: Universal (what PARTICULAR things have in common - characteristics/qualities)
-> "All Fs are Gs"

b. Plurality - MULTIPLE THINGS - (some, several; those)
\sisk-particular ("universals concern FEATURES that can be exemplified by
various PARTICULARS"
\sigma "Some Fs are Gs"
\sigma concerned spation for the property of the concerned spation for the co

c.Totality - EVERY THING - (all, every, each) \>J: Singular (\> "This F is G" or "The F is G."

2.Quality

a.Reality ("is","yes","true") \>J: Affirmative \> ("it is the case that...) "Fs are Gs"

b.Negation ("not", "no", "false")

\>J: Negative \> "no Fs are Gs"

c.Limitation ("un-","a-", "in-")

\> J: Infinite
\> "Fs are non-Gs."
(not authentic vs not inauthentic / happy vs not unhappy)

a Inherence(substance)/Subsistence ("is", substance, quality, property, "exemplifies, participates in, has, instantiates, for example, for instance, such as')(Phys: accident) ("this IS a hand")

\> J: Categorical \> "Fs are Gs"

b.Causality(cause)/Dependence (effect) ("BECAUSE", if... then", cause, effect, depends, determines)

\> J: Hypothetical \> "If Fs are Gs, then Hs are Is" (or: "If P then Q")

c.Community (reciprocity) ("if and only if", "and", "or", "unless, part,

whole; "with a representation of the total set of partition of the total domain is mutually exclusive and the total set of partitions is exhaustive).

a.Possibility / Impossibility (*possible, can, may, might, could*) \> J: Problematical \> "Possibly, Fs are Gs" (or: "Possibly P")

b.Existence / Non-existence ("is"(), exists, will)

\> J: Assertoric
\> "Actually, Fs are Gs" (or: "Actually P")

c.Necessity / Contingency ("necessary, must, needs to, has to, would") \> J: Apodictic \> "Necessarily, Fs are Gs" (or: "Necessarily P").

"Category (Kintf) (2002) Willipedia. Assistable at: https://en.wiklpedia.org/undex.php?title_Category_(Liter_spino) = 1.1402492.
Way 2002).
Wastis Theory of Judgment', in E. N. Zallia (ed.) The Stanford Encyclopedia of Philosophy.
Hanna, R. (2007). Wastis Theory of Judgment', in E. N. Zallia (ed.) The Stanford Encyclopedia of Philosophy.
Stanford University, Assistable at: https://plato.istanford.edu/archives/laps/2002/in/in/s/familydeprent/ (Accessed 2002).
Wastis Theory of Category (ed.) The Category

Category	Judgments		
Quantity	Universal	Particular	Singular
Quality	Affirmative	Negativa	Infinite
Relation	Categorical	Hypothetical	Disjunctive
Modality	Problematical	Assertoric	Apodictic

2. Classify linguistic/paralinguistic/metalinguistic (LPM) features into

\> binary/declarative (D) \> categorical (C) \> spectral (S)

\> these are in Kant's categories
\> formalise representations of those first instead

. Classify Modes Of Articulation (MOAs) into \> binary/dec \> categorical \> spectral

4. Define Qualities Of Perception (QOPs) \>Kant's Categories of the Understanding

\>? Neuroscience? \>? Dennet/Chalmers?

5. Create spreadsheet/document of possible combinations of LPM features and MOAs (and maybe QOP)

6. Cherry pick/highlight most relevant/matching

7. Create spreadsheet/document of chosen usages, APPLYING QOPs

8. Mockup chosen usage examples

9. Define the vehicles by which these could evolve through usage, emergently

10. Speculate possible examples of said evolution

11. Mockup examples of evolution

Kant's Categories of the Understanding

/ What pure concepts of the understanding are required for sensory experience / Other Rationalists - look at universality and necessity

/ Kant - yes - look at universality and necessity \> Categories must be UNVIERSAL and NECESSARY \> also look at LOGICAL JUDGEMENTS

categories of **objects of possible cognition**, not of the thing in itself judgement: Judgment applies "the concepts of the understanding [the Categories] to phenomena."

Categories: (this won't be easy to teach you in a few minutes - it is a LANGIJAGE - It must be LEARRNT through use - so some of this stuff may be confusing, don't worry about understanding the precise mechanics, just get the general flavour)

a.Unity (/UNICY) - ONE THING- every "thing" is unique - (object, thing, this, that, the)
\[\subset \s

characteristics/qualities)
\> "AII Fs are Gs"
\> Manley Thompson - Kant SLIPPED
a. UNITY

a. UNITY

>J: SINGULAR

> "This F is G" or "The F is G."

\> ONE SPECIFIC object referenced = SINGLE gram displayed - static

b.Plurality - MULTIPLE THINGS - (some, several: those)
\si-Particular ("universals concern FEATURES that can be exemplified by
various PRAT CULARS"
\sim "Somm" is art (St.")
\sim "Somm" is art (St.")
\sim "Concrete, spatiotemporal entities

\> MULTIPLE OBJECTS referenced (in PLURAL) = gram TRIPLED

vertically\> visually nolsy - could be harmfull for users with cognitive/vis
processing issues
> (duplicates stacked + fading away)
\> (reduces visual noise)

\>doubled?
\> need to imply the CONCEPT of PLURALITY, which can be more than
\[\text{'} = 2 \text{ or the o}.
\]

\> TOTALITY/universality would then have to be more than 3, or use motion
\> totality = 4 or 5
\> too much visual clutter
\> see (2)

> totality = 3; plurality = 2

> less noisy

> totality = SOMETHING ELSE (e.g. single gram expanding)
>> MULTIPLE OBJECTS referenced (in PLURAL) = gram DOUBLED vertically

\> MULTIPLE OBJECTS referenced (in PLURAL) = gram TRIPLED vertically
>(duplicates stacked + fading away)
\> (reduces visual noise)

(elucuces visual riose)
 triple necessary as prevents idea of SEQUENTIALITY building be UNITY, PLURALITY, and TOTALITY (each distinct concepts)

> If use without number = "some" - there are SOME cats

/ How represent actual NUMBER of objects?
\> up to 3/5 gram instances HORIZONTALLY
\> more than 3 = visual clutter
\> more than 3 = use "number" function

c.Totality - EVERY THING - (all, every, each)

·J: Singular (\> **"This F is G"** or "The F is G."

\> Manley Thompson - Kant SLIPPED
c. TOTALITY
\>J: UNIVERSAL (what PARTICULAR things have in common

(2)
> ALL objects of a given sort referenced = SINGLE (

\> single gram displayed for ALL - implies grams refer to "ALL" instances of said object \\> single gram should imply reference to SINGULARITY/IN-STANCE \\> TOTALITY/UNIVERSALITY = gram TRIPLED vertically \\> implies universality is "one step" above plurality \\> UNIVERSALITY is NOT SEQUENTIAL WITH PLURALITY \\> TOTALITY/UNIVERSALITY = gram DUPLICATED 5x vertically

\>visual clutter

>> each duplication successively tranparent
>> visual noise
>> highlight the PRIMARY gram by keeping it at
100% opacity and ISOLATED, and all duplications emanating
the 2nd instance, separated and below the primary gram

\> double line = assertoric ("the cat IS black")

\> triple line = apodictic/necessary ("the cat MUST

(3) BUBBLE could form the "double line" - creating a (3) BUBBLE could form the "double line" - creating 3D channel/tube between bubbles connecting subject and predicate - showing they are logically connected by sharing a common boundary - they

-similar to how grams are synthesised within bubbles or by making their attributes/predicates

pressed two...> slash: --/-> like a crossing out
> used in Infographics / signs (e.g. "No Smoking" sign)
> could look like a slash (/), indicating "or"
>> could use "/" to mean "or"

> cross: ---x---\> universal

a.Inherence(substance)/Subsistence ("is", substance, quality, property, "exemplifies, participates in, has, instantiates, for example, for instance such as")(Phys: accident) \> the "is" of PREDICATION ("this IS a hand")

\> J: Categorical
\> "Fs are Gs"

\> ALL objects of a given sort referenced = 5X gram

2.Quality

\> REALITY/AFFIRMATIVE = DOUBLE LINE connecting quality and posessing object/subject \\> double line looks like "=" sign \\> joins on to box surrounding connected concepts

BE an animal")

"breathe the same air

our blind individuals excluded

B+W publications

> VRLang not designed for republication in old media

> designed as a new form of (even becoming: standard) of

\> labelling - can't exclude this entire mode of such possibility \> this can go for LESS CORE concepts \> remember the EDL (Embryonic Differentiational Logic) ethos start simple and refine - base meanings should be evident easily

need single line for Logical Flow const >need single line for Logical Flow \> Logical Flow line separate \> so is Progressive Punctuation Line \> use single line for Logical Flow \> crossed DOUBLE RED line

c.Limitation ("un-","a-","in-")

3) .>LIMITATION/INFINITE = DASHED SINGLE LINE conne juality and posessing object/subject

a.Reality ("is","yes","true") \>J: Affirmative \> ("it is the case that...) "Fs are Gs"

intersect them (stacking below)

b.Negation ("not", "no", "false")

.. reggive
"no Fs are Gs"
NEGATION/NEGATIVE = CROSSED RED LINE connecting
ality and posessing object/subject
just red

\> J: Infinite
\> "Fs are non-Gs."
(not authentic vs not inauthentic / happy vs not unhappy)

A> REALITY/AFFIRMATIVE = DASHED SINGLE LINE (

\> INHERENCE/SUBSISTENCE =

> for BASIC QUALITIES/PROPERTIES
- visual: apply colour, texture, size, to GRAM for PARENT

OBJECT \> how distinguish from other grammatical uses of colour/texture/-

\> add gram for property too

> DECLARATIVE sentences - "the cat is black"

> connected with "QUALITY" LINES
> DOUBLE LINES = reality/affirmative
> CROSSED RED LINE = negation/negative
> DASHED SINGLE LINE = limitation/infinite
("un-";"in-";"a-")

> NOUN PHRASES - "the black cat..."

\> OBJECT and QUALITY grams grouped inside BUBBLE \> "black" + "cat" grams bubbled together

OR
\> (slightly different type of relationship)
GRAM FOR QUALITY applied BELOW gram for parent

of the quality

> applying quality as gram INSIDE SHARED BUBBLE
SYNTHESISES the NOUN PHRASE into a new "metagram" - ir
same way more abstract "metagrams" are synthesised

\> "Big Cat" vs "big cat"

b.Causality(cause)/Dependence (effect) ("BECAUSE", if... then", cause, effect, depends, determines)

\> J: Hypothetical
\> "If Fs are Gs, then Hs are Is" (or: "If P then Q")

> CAUSALITY/DEPENDENCE =

> bubbles/boxes connected with SINGLE LINE + ">"
sign/arrows along the line

> point to cause

> follows structure of most languages "because"

> point to resolution/end
\> demonstrates the synthesis - the flow of logic/events

better

> VRL is about pushing the POSSIBILITIES of communication, not EASE of USE, like EL

> ARROW POINTS TO CAUSE

\> if using arrow, makes more sense to show the flow of logic/causation \> this is equivalent to using "so" instead of "because"

\> "so" = flow of logic demonstrated by arrow \> "Because" can also be useful to HIGHLIGHT the cause \> "because" = must still follow logic of the arrow =

cause
\(\) if use DIRECTIONALITY to writing, then 'because' vs 'so'ls simply flipping the direction of the arrow linking the clauses to follow the flow of logic
\(\) 'the door is open' ('door' and 'open' grams linked by double lines), 'because it is broken' (line linking to 'broken' gram has arrow pointing backwards from 'broken' to 'the door is open')

\> can stress "because" by surrounding the cause with a bubble, with an arrow leading from it, up/out to nothing - arrow pointing up AS WELL AS DIRECTIONAL LOGIC FLOW ARROW

\> direction of reading?/ directionality
\> display changes based on preferences (default
based on country/native anguage)
\> not as important
\> relies on logic

> it detect can you as them understand still can you backwards are sentences English when

> as long as make START OF SENTENCE CLEAR, everything fine > here comes in PROGRESSIVE TERMINAL

PUNCTUATION

> as sentence continues, the place in/progression of the sentence is demarcated size decreases

> size decreases

> need to be able to change it on the fly can disrupt the flow of the shrinking/growing by resetting it, as you go, to say "oh walt, ive got more to say" - the important thing is that some sort of progression toward a finite point is clear.

c.Community (reciprocity) ("if and only if", "and", "or", "unless, part,

whole , with
3-Things are interrelated
5-J: Disjunctive
5-S are either Gs OR Hs or ..." (where each partition of the total
domain is mutually exclusive and the total set of partitions is exhaustive).

\> COMMUNITY/RECIPROCITY = boxes \> boxes needed for synthesis of grams \> bubbles used for synthesis of grams broader concepts/parts of sentence \> connected by single, solid lines

4.Modality

a.Possibility / Impossibility (*possible, can, may, might, could*) \> J: Problematical \> "Possibly, Fs are Gs" (or: "Possibly P")

\> possible mode = single line ("possibly is") \> impossibility belongs in the realm of

\> possibly is not = single line crossed and red b.Existence / Non-existence ("is"(), exists, will)

\>J: Assertoric
\> "Actually, Fs are Gs" (or: "Actually P")

\> double line

\> DOES THIS NEED TO BE DIFFERENTIATED FROM other

\> DUEL :
double lines
\> same thing
> are they?
\> use other colour/symbol?
> other mode

\> is not = DOUBLE LINED CROSSED and RED

c.Necessity / Contingency ("necessary, must, needs to, has to, would") \> J: Apodictic \> "Necessarily, Fs are Gs" (or: "Necessarily P").

\> necessarily = TRIPLE LINE

\> necessarily not = TRIPLE LINE CROSSED + RED

> does this imply SEQUENTIALITY?
> yes, but in this case, sequentiality is APPROPRIATE
> even if not, sequentiality is only important so much in the
'number/plurality' category, as it could acidentally imply the symbolic
grammar is designating the actual number of objects, which it isn't, it is
trying to express the CONCEPT of PLURALITY as well as the even more
asbtract 'totality'

Category (Scat!) (2022) Wikipedia. Available alt: https://en.wikipedia.org/wi/Index.php?title=Category_(Kant)&clide=1124024821 (Accessed: 2 May 2023).
Hainsa, R. (2022) Kant's Theory of Judgment; in E. N. Zatla (ed.) The Stanfood Encyclopedia of Philipsophy. Spring 2022. Metaphysics Research Las Stanfood University. Available alt: https://plaint.waterder.ed.au/archives/pro2022/entris/scat/ass-judgment/ (Accessed: 2 May 2023).

Designing the VRL language 3 - Lexical Categories (#76)

1.List all Features of Communication

```
LEXICAL CATEGORIES:
      > proper nouns (D)
          progen mouns (u)
common nouns (e.g. chair, nose, occasion)
\(\) can be PLURALIsed
\(\) can combine with NUMERALS
\(\) can combine with COUNTING QUANTIFIERS ("one", "two", "several", "every",
\(\) can combine with COUNTING QUANTIFIERS ("one", "two", "several", "every",
 > uncountable/mass nouns (e.g. "furniture", "wood")
\> often MATERIALS/SUBSTANCES (metal, wood), liquids ("water"), powders ("sugar", "salt", "plaster")
\ some nouns can be used as countable or uncountable ("rope"/"three ropes")
\> some have different "senses" as mass/count nouns ("paper" as a material, "a
paper" as an academic work.

\| > Use "ENVIRONMENT" mode to indicate UNCOUNTABLE NOUNS

> "a piece of paper" = "paper" gram alone as a form

> "paper" as a material = "paper" gram APPLIED TO ENVIRONMENT

\> as texture - all environment becomes "paper" texture

\> could be disorienting

\> only part of environment - dependent on other grammattical features
\> e.g. texture of walls = ABSTRACT NOUN FLAYOUR: texture of floor =

CONCRETE NOUN FLAYOUR

> "an academic paper" = "paper" gram + "academic institution" gram COMBINED

\> combined as 3d objects

> combined as 50 pybs
                     \> combined as 3d objects
    combined as glyphs
    sequentially linked (e.g. "paper" THEN "academic institution")
    \> requires word order - restrictive
    \> formationally linked
    \> glyphs connected so touching (at line-art level)
    abstract synthesis
                             abstract synthesis
\> use AI to combine the grams for "paper" and "academic institution" >
 new gram for "academic paper" \> lose synthetic nature - derivations construct new language with just as
many words as a Natural Language
> endless possibilities
                                > latiness possimines
> latent space concepts
> harder to learn
> translation to user's Natural Language shown (optional) in text
> bCI: when detect confusion
      \> collective nouns - refer to groups even when used singularly (e.g. "committee",
   "government", "police")
      \> concrete nouns
          connected to floo
   > connected t
> on floor
>low/near floor
      \> abstract nouns
   >-float above floor
>-high/above avatar head-height
\> avatars are different sizes in VRCHat
\> when communicating, avatars scale to regular size
or > scale reinforced
\> demarcate basic axis
\> sentence tracks? Like blocks X high, boxes like lined paper but 3d?
\> restrictive
\> maybe don't need it - grams provide scale as are standard size
 \> scale avatars
\> scale anyway, as will need for other functions to be concordant across users - like the "we" function (see "person")
\> noun phrases (e.g. 'the cat sat on [a dear friend of mine]' \\
\to use BOUNDARIES/visual grouping to indicate a NOUN PHRASE or SYNTHETIC \\
NOUN (noun made of multiple grams) \\
\to Empillang uses parentheses for general grouping - can be used for noun \\
construction and CASES
                  \> VRLang could be a BOX or 3d AMORPHOUS BUBBLE that loosely "wraps"
 unicalenated objects
\sigma case system - EL uses "pin" to mean "here, place, literal meaning indicator,
NOUN CONVERTER"
                        \> VRL could use COLOUR of boundary to indicate CASE (whether thing is
 subject, direct object, indirect object)

> or attach SYMBOL like the "pin" noun converter to the edge of the
 boundary
   \> can be "inflected" (modified in form) to encode TENSE, ASPECT, MOOD, and VOICE
  (diathesis)
 / all verbs move 
\> shake/vibrate
  valency (how many arguments a verb takes)
  \> verb only has SUBJECT - e.g. "he runs"; "it falls"
```

\> verb has SUBJECT and DIRECT OBJECT - e.g. "he eats fish"

VERB linked to subject
> verb attached to SUBJECT, who moves to the DIRECT OBJECT

```
> SUBJECT moves to VERB, collects it, and passes it to the DIRECT OBJECT \> animation of subject \> need to preserve sentence-structure
                    \> infinite loop
> 3 loops, then static (CLICK TO REPLAY)
> static only mode (click to play)
             \> what about static representations?
\> language about PUSHING THE BOUNDARIES within the FORMAT, not adjusting to
old formats

> if had to - could use arrows or sentence-order
                    \> no need - CASE MARKERS
\> ensure case markers have a static option
     \> then show preview?
  > preview the SUBJECT actually DOING THE VERB to the DIRECT OBJECT
\> John eats the apple
\> "John avatar" moves to "apple" gram and eats it
      \> doesn't work for abstract concepts as well
\> divide into CONCRETE VERBS - HAVE VISUAL ACTION
> ABSTRACT VERBS
               \> no action
                 > symbolic action
                   \> e.g. "love" = gives a love heart to DIRECT OBJECT
 \> verb has SUBJECT + DIRECT OBJECT + INDIRECT OBJECT - e.g. "Mary GAVE John the
 \> SUBJECT moves to
 (>copular (linking) - "be", "seem", "become", "appear", "look", "remain") 
\> e.g. "his mother LOOKED worried"; "his daughter WAS a teacher"
          double lines linking predicate adjective/noun to subject
 (>Avalent: verb has no subject or object - e.g. Mandarin Chinese weather verbs - "snow" - ~Spanish "llueve" - "It rains" )
   > non-finite verb forms
     \> infinitive
       > gerund (verb as a noun phrase - "-ING")

\> e.g. "John likes eat-ING cake"
     > participle: has characteristics and functions of VERBS and ADJECTIVES
          \> e.g. "LAUGHING face"
        \> e.g. "LAUGHING race"
> past participle ("lookedED", "endED"; spokEN, eatEN)
\> present participle ("-ING" - doing a thing - e.g. "John was eat-ING cake")
 3. adjective
3. adjective

\hat\text{where simple - apply to gram of object}

\hat\text{how know not standard gram}

\hat\text{learn the standard gram, will easily recognise modifications (same as any word and its linguistic modifications e.g. "eat"/"eats"/"eating")
 / not applicable/want to modify adjective itself - group gram for adjective next to noun in bubble > noun phrase
 / where need to can convert other words (e.g. nouns) to adjectives using formal adjective
 notation

\sadjective placed beneath noun it describes
\space* parentage/phylogenetic style bracketing system
\sepsecially useful for nouns that have multiple adjectives and/or multiple nouns that share an adjective
\space* just put adjective beneath parent object

\space* bubbles IF necessary - can just attach to bottom of parent
          \> adjectives could get too small if shrink to put below \> don't shrink too much, just put below \> touching to show related
> CAN LOOK CLOSER - Its VR
> can PULL BUBBLES/GRAMS TO EXPAND
\> can temporarily zoom in - BCI/interfar
Item/area/ bubble
                                                                            erface imagine ZOOMING IN/EXPANDING
    \> line coming off verb connects it to gram for ADJECTIVE
       \> can group/synthesise adverbial adjectives to creat
             > simple synthetic adverbs

    simple synthetic adverbs
    complex adjectival phrases similar to analogies
    can be whole sentences

 \> can be whole sentences
\> "I ate the apple ravenously"
\> "I" + "eat" (past tense + line going to new bubble containing sentence
"person who has not eaten for 100 years") + "apple"
/ short/few gram adverbs can be -applied to verb (if visual) -put beneath verb gram
 5 pronoun
6. prepositions (aka adpositions as includes prepositions and postposition 
\>(express SPATIAL or TEMPORAL RELATIONS: mark SEMANTIC ROLES)
```

```
\> SPATIAL prepositions
\s location: 'in', 'ait'
\> spatial relation: 'in', 'rait'
\> spatial relation: 'in', 'rait'
\> spatial relation: 'in', 'rait'
\> temporal relations: 'before', 'rafter, 'next'/previous',
\> Non-English:
\> 'na' (Russian):
\> spatial prepositions SHINE in VR
\> 'the call is in the hat' = 'cat' gram shown inside of larger, encompassing 'hat' gram
\> relations are subjective - e.g., my 'in front of' could be your 'behind'
\> may have to be combined with the "VIEWPOINT" mode, which shows the interlocutor a snapshot of the speaker's viewpoint

7. conjunction
9. article/determiner

7107. (sometimes) particles
\> e.g. 'yes', 'no'

11. EXTRAS

/ Abstract mode
\> freeplay - uses BCI to generate a scene
\> e.g. 't'm feeling calm' = suddenly all transforted to a tropical beach, user in hammock
\> indicator
\> Indicator
\> LAtent space forms
```

```
GRAMATICAL CATEGORIES:
> change word order?
  \> verb - subject - object = past
    \> "eat I apple"
   > subject - verb - object = present
   \> "I eat apple"
> subject - object - verb = future
   \> "I apple eat"
 \> simple
 \> confusing?
 \> restricts word order
\> the beauty of using 3d space (space + time) to articulate sentences rather than just sequence (time) is it frees us from this \> allows us to get creative with word order/spacial arrangement
      \> can group related clauses together in space to denote general
associations between clauses (so between actions, parts of the sentence)
>tense indicator gram
 >symbol attached to verb
 \> Past: [<]; Present: [|]; Future: [>]
  \> can combine
    \> Simple past/preterite ("I ate the apple") = just [<]
   > attached to BUBBLE/BOX of clause
    \> shows whole clause happened in "x" tense
      > can add additional clauses in other tenses and EASY TO SEE that ALL THE
ACTIONS/DESCRIPTIONS APPLY TO THAT TENSE
\> past = (brainstorm) = old, tired, grey, fading (opacity?), backwards, behind, before, in front, ahead,
\> use time as well as space?
>just use space \> familiar - most languages use spatial metaphors to describe time ("before/after""a-
head of/following")
 >formal elements: line, shape, space, form, tone, texture, pattern, colour, composition
\> colour
  \> saturation
    \> past = desaturated + more transparent
     > present = regular
     > future = hypersaturated
     \> SAVE FOR EMPHASIS
       \> it can be both - saturation used to FLAVOUR another method
                             \> so doesn't have to be as radical a change
                            \> used in conjunction with [<][][>]
\> saturation also used for emphasis - de-emphasis
                               \> relative to sentence
                                 \> if something in past = very happy: whole sentence
slightly desaturated to indicate past + [<] on verb / bubbe/box (1
        \> VERY (adjective) = adjective SATURATED
> very = SATURATED and OPAQUE (all others slightly transparent)
           \> others have to be slightly transparent
            \> maybe already should be - so can see through them
          |> only THAT sentence - once use "very" - all other grams in sentence/clause
desaturated+transparent
         > very = saturated + line stroke enhanced - thicker
2 Aspect
\> how the action/event/state denoted by a VERB extends over time
 >Perfective - bounded/unitary events - (e.g. "I helped him")
 \> no reference to flow of time
>Imperfective - situations that exist CONTINUOUSLY or REPETETIVELY as time flows
 \> (e.g. "I was helping him"; "I used to help people")
3. Mood
  \> feature of VERBS signalling MODALITY / attitude toward statement
 >indicative
 >interrogative
 > imperative
 > subjunctive
 > injunctive
 > optative
 > potentia
|| > art style?
   \> cartoon
   \> emoji
\> icon/minimalist
   \> sketched
   \> pixelated
 ?> Reporting
\> should be ADDITIONAL - not integral to understanding - can be added if desired (DEL
   \> DIRECT reporting: avatar shown looking on to the sentence - I saw this with my
```

```
if unspecified, but CAN BE THE ACTUAL PERSOn (person selector dialogue: see "6.
Person") looking at action and MOUTH MOVING, hand cupped toward Sr to indicate
    \> 3rd HAND INDIRECT REPORTING (I heard it from a media source)
     (\> 4th hand indirect reporting (somoene else told me they read this)
\> Sr looking away, 2nd person looking away (but talking - mouth moving + speech = radiating lines from mouth), 3rd person looking at action, cupping hand,
mouth moving, speech lines etc)
4. Voice (diathesis)
 >active voice: SUBJECT is AGENT/"do-er" of the verb action ("the cat ate the mouse")
 > passive voice: SUBJECT is TARGET of the verb action ("the mouse was eaten by the
non-English: > middle voice: subject PERFORMS AND RECEIVES verb action
\(\) (active "Lucy cooked the casserole in the oven"; passive: "the casserole was cooked in the oven by Lucy; middle: "the casserole COOKED in the oven by Lucy")
/ "Tho"
/ "A"
/ "this"
6. Person (1st person, 2nd person, 3rd person)
\> Also see "clusivity"
 / I = show speaker's perspective to interlocutor
   \> don't want to confuse/overwhelm
> need to attach it to the person who is speaking
     \text{\sigma} s how the viewpoint as a window/thought bubble coming from the speaker \swant it to be big enough to see complex visual ensembles
         \> can click/look at window to expand
          \> can zoom in on individual objects
             \> GAZE DETECTIOn + BCI
\> detects individual objects - can zoom in on each by imagining them expanding- imagining zooming in/walking closer to them/pulling them closer (Motor
Imagery - MI)
/ /we (inclusive)
\> show speaker and interlocutor together
   \> how show both viewpoints?
     \> show split-screen
     > show 3rd person (behind the shoulders) view of both togethe
 / we (exclusive)
  \> show multiple viewpoints of speaker + others
  \s show the interlocutor in the scene to show senarate
     \> the interlocutor might not be in the action described - confusing to ahve them
      > INT shown as onlooker in scene - not attached to any object/grams in the scene
        \> in top left corner
      > INT separated from scene
        \> scene in a bubble - INT outside of bubble
\> bubble emanates from the multiple avatars of the "we"
  > use avatars of referenced person in the we
  \> when use "we" - auto-predict pops up with "insert person"/"who with?" - displays: 
> "most commonly used,
     > favourites (can favourite a person to reference),
> mutual friends (shows suggestions of MUTUAL FRIENDS of Sr and Ir)
     > what about an unspecified we
        \> placeholder avatar
         \> robot
 / we (plural)
  > specified number of people = show specified number of avatars/robots (seperate but
   \> can include some known avatars and some robots to say "we" (Dan and Mina +
  > general plural = robot tripled (overlapping, fading)
 / we (total/universal) = robot duplicated X5 (overlapping, fading)
    \> can apply attributes to them (below, in bubble) to say "all us _
for a cultural group
     \> e.g. "all us BME people have been oppressed" "all us women have been silent"
       \> social justice is an area where specifying CLUSIVITY is particularly important
 11> "we" plural or universal INCLUSIVE vs EXCLUSIVE = include/exclude Ir's avatar
 / 2nd person - he/she/they(gender neutral personal pronoun - 2nd person - DISTINCT
from 3rd Person "they" impersonal pronoun) / xid 
\> exclusively gender neutral personal pronouns
    \> supportive of those whose gender identity might not be defined
    \> some people might want their gender identity reinforced - some enjoy hearing it
     \> does add REDUNDANCY - IMPORTANT in language for COGNITION and AVOIDING
MISUNDERSTANDING
       \> adding extra info always good
          \> follows MULTIMODAL POWTSAC ETHOS
```

\> show avatar of person (selector dialogue) or ROBOT avatar \> singularity/plurality of "they" follows Kantian "Number" rules:

```
\> singular they - 1 personal avatar/robot avatar
   > plural they (specified number) - N personal avatars/robot avatars
> plural they (general) - 3 robot avatars, duplicated horizontally (duplicates
overlapping + fading progressively)
> total they/those ("those that/whom __") = EVERYONE in x group ("them lot")
       \> 5 robot avatars (duplicates overlapping, fading vertically).
\> qualities of group applied to robots as with objects
              \squares \quad 
/ 3rd person
/ 4th/0th//neutral - view from above
7. Noun classes - English only expresses it using pronouns "he/him/his", "she/her/hers",
 "it" + gendered nouns like "actor/actress"
Other languages:
 >Animacy - how sentient/alive
>Human/non-human
>> COULD WE SEE AN AL/HUMAN NOUN CLASS DEVELOP???
>Strong/weak
>Augmentative/diminutive
 >Countable/uncountable
 >Shane
 8. Locative relations (location)
 \> some languages use CASE. TENSE. AGGLUTINATIVE LEXEME (PREPOSITION.
 ADJECTIVE PARTICLE)
 Non-English (mostly undefined)
 9. Clusivity
/ See "person"
 10. Gender
 11. Case
 / Nominative (subject of sentence)
 \> beginning of sentence
         relying on word order
     \> not necessarily START of sentence, just PRECEDING the arrow of logical flow
\> has verb above
    \> posessed object = base (in main flow line) + posessor applied to object as an
 attribute/quality would be (below, in bubble)
     \> "Dan's apple" = apple + (beneath, in bubble) Dan's avatar
     \> "my /your apple" = apple + (beneath, in bubble) "my"/"your" avatar \> "his/her/their(singular) apple" + robot avatar
            \> his = robot with "masculine" gram applied as attribute
              > her = robot with "feminine" gram
              > xer = robot with "non-binary" gram "
     \> "their (plural, specified no.) apple" = apple + (beneath, in bubble) N
personal/robot avatars
personarrobut avatars

\s "their (plural, general) apple" = apple + (b,b) 3 robot avatars, duplicated

horizontally (duplicates overlapping + fading progressively)

\s "their (total/universal) apple" = apple + (b,b) 5 robot avatars "
   \> "our apple" (plural) = apple + (b,b) avatars
   > (inclusive - only "us two") = apple + (b,b) both avatars
> (universal) = apple + (b,b) 5 avatars (plain robot = everyone; robot + attributes =
    > (exclusive) = include Sr's avatar in lineup, exclude Ir's avatar
  \> singularity/plurality of "they" follows Kantian "Number" rules:
  \> singular they - 1 personal avatar/robot avatar
    > plural they (specified number) - N personal avatars/robot avatars
     > plural they (general) - 3 robot avatars, duplicated horizontally (duplicates
 overlapping + fading progressively)
     > total/universal they/those ("those that/whom __") = EVERYONE in x group ("them
        \> 5 robot avatars (duplicates overlapping, fading vertically)
          \> qualities of group applied to robots as with objects
\> simple visual qualities applied to robots directly
                 > grams for other qualities attached beneath avatar (in bubble?)
  \> 5 robots with no attributes = "one" ("one eats or one drinks")
12 Definiteness
 >Definite
  \> English: (uses "determiners") "a","an","many","some", "[number]"
  >Indefinite
  \> English: "the", "that" (determiners): "mv" (genitive (case) noun phrase)
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Grammatical categories (no date). Available at: https://www.unisa.ac.za/sites/corporate/defautit/Unisa-Open/DGR-W-Unisa/Linguistics/Grammatical-categories. (Accessed: 28
```

Syntax

Viva Y3 Questions (#78) \> craft your communication /Who is the user/audience? / don't miss out work, summarise / How does it connect with/reach the audience/users? \> ensure obvious HOW CAME TO YOUR CONCLUSIONS / What is the context of use? + situation / can't fit it in? \> for EACH deliverable/product? \> web version \> publication > VR version > handout > integrated versions? > model \> Metaverses \> VRChat / Don't just "self-plagiarise" your Context Report \> can quote it / What is the intended effect of the project? / Cultural references? / What other designers have done work in this area? General / use money for things you don't have time for / If you had another 6 months what would you do? \> comission if needed \> where will it go? > funding \> external funding / Goldsmiths computer thing \> creative control > external resources / Lenovo \> BCI / Backblaze \> user base \> VRChat \> Social media \> new \> new social media platforms > mine > Jaron Lanier > ConVRse Physical - viva: / Key things I've learnt this year? / Contents page Logistics: Physical - DEGREE SHOW: / Don't overcrowd the page \> more slides, less info - room to breathe \> zoom in and out / Computers / Main screen with videos / use pull quotes on slides / make sure the visual and vocal elements link and support each other / Save the date graphics invitation / POSTER in the WILD / Details - kerning, spelling etc /Email contacts, CyborgNest, BrainControl, BCI all companies emailed / show don't tell / tell a story/narrative

/ talk about mistakes

\> what they mean
/ pace, tone, intensity, expression

/ show details for drawings, models, mockups, sketches

Harry tutorial 8 (V#79)

Viva:

/ should highlight the beauty and complexity, richness of language \> can being able to COMMUNICATE with others

\> how can I show what can happen if EVERYONE can communicate without barriers?

/ To project management: ensure don't lose the presentation viva-ness while trying to "cross the line"

/ Re spreading myself thin vs depth of all the pieces - telling the story,

the narrative

/VIva: history of scripts, writing as part of my narrative / Remember the future plan

-universal communication -digital telepathy

Presenting the language:

/How can I present/explain the functioning/rules of the language

/How can I present/explain the functioning/rules of the language \> use story of characters communicating \> journey from hearing about it, to learning it with each other, to

/ Must explain Toki Pona - \> community of people \> how does it build on it?

speaking

/ Eventually - everyone

/Who first - first adopters?

\> Linguistics enthusiasts

\> large community of "conlangers" - people who create conlangs (constructed languages) as a hobby

> Neurodivergent people

> Mute people (on VRChat)

\> there is a HUGE mute community on VRChat

\> evidence of adoption?

\> many people in VRChat, mute and not, have learnt at least a tiny bit of American Sign Language, to communicate with the Mute Community

\> there are even ASL tutorial / practice worlds

> Dyslexic people

\> absolute game-changer

/ Then

/ Tech people

\> integrated into existing communication platform

\> e.g. social networks

\> Discord

\> perhaps unrealistic

\> start-ups
\> target Metaverse startups to integrate this from the ground up

\> smaller, more willing to integrate new, radical features > already positive about pushing the boundaries of human

/ Other internet communities

/ Internet communities spread - becomes widespread as userbase grows, and so demand for its implementation expands to all platforms

\> becomes like Emoji

Branding (#81)

/ Need to imply the Ebryonic Differentiational Logic (EDL) Ethos \> EDL is too distracting - change acronym to DEL

Name of EmojiLang

```
IN ENGLISH
\> doesn't use just Emojis
  \> want to move away from this idea
    \> Emojis feel more friendly and familiar
     \> Emojis are also their own thing - this is something new
/ imply
\> Evolution
> differentiation
>growth
>emergence
\> EvoLang
>EmergentLang
>EmoLang
\> flavours of emojis
 \> connotations with "emo" subculture
    \> more connotated, in this context, with EMOTIONS and perhaps
EMOTICONS
>EmergeLang
>Emerge
\> snappier
>Grolang
>Refine
>FluidLang
```

IN OTHER LANGUAGES

IN EmojiLang

General criticisms of VRL/EL (V#82)

/ sentences are ambiguous

\> VAGUE, not ambiguous

\>not that it COULD mean anything, and no way to find out \> instead: the ONE thing the sentence MEANS is BROADER than any possible English translation

"she hit the man with an umbrella" is AMBIGUOUS - who has the umbrella?

\> determine from context

\> like English sentence "The activity is good." - morally? experientially?

VRI :

FI:

Designing the tutorial (#83)

How the language works:

/ A system of 121 pictographic/ideographic characters, called "grams", which can be combined to create broader concepts

/ Grams :

>No set definitions

- \> Only "Suggested Definitions", which can be submitted for each "gram" \> Viewable in the "Dictionary" [highlight icon for area/show image]
- \> Can be upvoted or downvoted

>User-submitted

- \> The original set of grams was inspired by constructed language "Toki
- Pona"

 > Users can submit new grams, which will appear in the "new" section

 > EL is designed to evolve naturally with use, expanding and conforming to
- fit the needs and thinking styles of its users
 \> Most popular grams appear in the "popular" section, and are eventually
 added to the core 121 character main keyboard
- added to the core 121 character main keyboard \> Least popular grams (taking into account new and old grams alike) will be archived, and replaced on the keyboard by more popular grams

Suggested Grammar

/ EL has no set grammar

Designing the tutorial

- / don't want to overwhelm users
- \> short "slideshow" format
- \> headings
- \> bulletpoints revealed one, by one
- \> fade in, calmly

/ use grams alongside words, where relevant, to start introducing Suggested Definitions $\,$

/uses eye tracking and bci confusion states measuing

Publication (#84)

/ Contents page:

> map out key elements from Assessment Criteria and add pointers for pages that evidence them.

\> two people from across the world, who speak not a word of common language, find my chat room by random chance. Their obsession with learning and practicing this new language. honing the skill and craft of its execution, grows to towering heights. It's all they think about. Until they realise: it's not the language they're obsessed with. They've just fallen in love.

/ create Metamap langchain bot can answer contents page stuff \>ADD CKNCTEXF page

ask for examples of X marking criteria in my work (+ make reply in a manner appropriate for creative artistic academics)

-use tags within map for types of question and criteria

-convert colours to words or tags ("problem/counterfactual: language needs to be emergent / possible solution: grams submittable") -create simple ctrl +f macro script that takes output of langchain result and searches document

for it, displaying said page on screen

-would you like a summary?

I think the chat bot is the compromise. I do actually want to use it for my project. It could work out if I use it to replace the publication I was going to do. My work is all recorded in large gigamaps called Metamaps, that have a complicated red/blue debate system, with resolutions and hierarchies, and links across pages. This makes is the exact opposite style of understanding to my audience of creative visual thinkers. It looks bland, Someone asked me if it was code, because of the way it looks. It doesn't look polished or nicely stylised, be cause it's meant to be minimal and functional and informational. The design is in the structuring of the information. The theoretical. I have screenshots of deliverables I make too. But it's a lot of writing. It feels like this was made for a chat bot. Made for this purpose.

That's an interesting way of thinking about it. It sounds like you're thinking of a chat bot as a way to communicate the same information in a different format, to appeal to a different audience. That's a great ideal

It's almost like a "translator" of sorts, for your audience. Does that sound right

/ THE CHATBOT IS A TRANSLATOR

"I design in complex neurodivergent machine code As you will see, it gets the job done. And allows ways of thinking, processing, and creating previously unachievable.

And as you have seen. I brought along a translator"

\> linguistic theme

\> focus on the theme of LANGUAGE AND TRANSLATION

\> I am translating my autistic machine code into the language of "Goldsmiths textiles and ceramics fans who think paint is generally a good idea"

\> must use grams to express the narrative of the project

\> also remember the possibility of a character narrative

/ can I train a bot to speak my language? \> limit its vocab to 121 words with associated definitions

\> map it's output to images (?) (python?)

MapBot Logistics

/ need to make page for "potential guestions" (might already have one - expand if so)

/ what's it all about : project summary page / understanding my colours

\> translate colours to characters + insert

\> tell bot what characters mean, with examples

/ understanding the hierarchy

\> script - "if number of spaces before ">" = more than previous line, line is related or comes from this line

\> can we find linguistic equivalents \> give it a list of them

\> subarrows: "so" or ":"

> parallel arrows (reformat all so all are just >s, no \> (as it's supposed to be)

\> "also"

|| > make it guess the connecting word based on context \> use an agent for this

/ bot takes you to page

\> agent for "what is the current page (search # on page and return number after)

\> store as temporary variable

\> other bot navigates pdf with keyboard macro " ctrl +F " +

" insert variable value"

\> *embeddings with page numbers?

\> ~look up

/ need to tell it not read the notes pages. Evans, danesi etc.

[Image screenshot of conversation with AI chatbot "Pi", wherein I realised I wanted to create a chatbot of my own, to make my Metamaps (this document) more accessible to my audience of visual thinkers, comparing it to a sort of translator]

Using space to articulate concepts (formal elements) (V#85)
Formal elements:
/ line
/ shape
/ space
/form
/ tone
/ texture
/ pattern
/ colour
/ composition Transpired of generally (2023) Williams, Australian at 18th pr., from whilepolders any particular, design production at graphitosis and production and particular and production and particular and production and particular and production and particular and parti
Gestalt Principles:
Grouping:
Proximity
Similarity
Continuity
Closure
Connectedness
Principles of grounding (2023) Wilelpedia. Availables at: https://en-skipedia.org/wilels-#7roqles_if_groundia.def=1100027799 (Available 5 May 2023)

> repetition > rhythm - recurring position, size, colour, element INTERRUPTED

```
Modes Of Communication (MOAs)
                                                                                                                          \> symmetry
                                                                                                                           > asymmetry
> radial balance - elements RADIATE out from central point
/avatar
\>number
\>appearance
\>behaviour
                                                                                                                             \> good for BCI stacking UI flow
                                                                                                                          / Hierarchy / dominance/ emphasis
\>motion
                                                                                                                          >scale/proportion
                                                                                                                          ->scale/proportion
>similarity/contrast
>> similar environment
-unique internaol organisation structure
-manipulate shapes and images and text to CORRELATE
-page continuity
-style manual
/voice
  /VOICE

> AI voice changer
> a detect tone and enhance
> add new information - picoIDs
> apply to all types of TONE
> emotion
> intention
> assertiveness / imperative
> reinforcing/ redefining relations
                                                                                                                            >contrasts
      > assertiveness / imperative
> reinforcing/ redefining relationship type/strength
> formality/informality
>>
>
                                                                                                                               /space
                                                                                                                                 -filled/empty
                                                                                                                                 -near/far
                                                                                                                                 -2D/3D
     \> try applying other aspects of language
\> English:
   \>
                                                                                                                               / position
                                                                                                                                 -left/right
                                                                                                                                 -isolated/grouped
       > non-English
         >clusivity
                                                                                                                                 -centred/off-centre
         > reporting
                                                                                                                                 -top/bottom
                                                                                                                                 -simple/complex
/environment
                                                                                                                                 -beauty/ugly
                                                                                                                                 -whole/broken
/view
\> filters (colour, texture)
\> perspective (speaker, interlocutor, outsider)
\> IR sees self from speaker's perspective
\> clusivity
                                                                                                                               / direction
                                                                                                                                 -stability/movement
\> clusivity
- speaker and interlocutor together (we-inclusive)
- interlocutor sees self from speaker's perspective, but viewpoint multiplied (via multiple 'cameras'') - to simulate many others from same side /similar position to
                                                                                                                               / structure
                                                                                                                                 -organised/chaotic
                                                                                                                                 -mechanical/hand-drawn(/organic)
\> motion/refresh rate
  \> onion-skinning frames
     \> tiredness
                                                                                                                               / size
  \> motion exagerrated (motions of users multiplied to extend beyond input)
\> excitedness / energy / momentum
                                                                                                                                 -large/small
                                                                                                                                 -deep/shallow
\> definition
                                                                                                                                 -fat/thin
\> aspect ratio
                                                                                                                               / colour
\> 3D depth
  \> make world more or less 3D - like slider on 3Ds
                                                                                                                                 -greyscale/colour
\> camera lens modes
                                                                                                                                 -black and white/colour
  \> lense types
                                                                                                                                 -light/dark
     \> fisheye
> wide-angle
    > lens specifications
                                                                                                                                - SATURATION
      lens specifications
> aperture
> increase/ decrease focal length with virtual bokeh
> any spectral linguistic feature
> emphasis: "very not - neutral/unsure/binary - very"
> formality-intimacy
>
                                                                                                                               / texture
                                                                                                                                 -fine/course
                                                                                                                                 -smooth/rough
                                                                                                                                 -sharp/dull
                                                                                                                                    \> could modify the lines of "is"/"possibly
                                                                                                                          is"/"necessarily is"
/ Grams
                                                                                                                                    \> could modify the lines of the bubbles/-
  \> space
\> formal elements
                                                                                                                                         \> fine detail - sightedness
     \> line
> shape
                                                                                                                                            \> can look closer - it's VR
      > space
> form
                                                                                                                                              > don't use for important key things
      > torm
> tone
> texture
> pattern
> colour
                                                                                                                          without additional indicator (DEL ETHOS)
                                                                                                                               / density
        > colour
\> contrast
> harmony
\> colour schemes
                                                                                                                                 -transparent/opque
                                                                                                                                 -thick/thin
                                                                                                                                 -liquid/solid
      > composition
Principles:
                                                                                                                                / gravity
/ Unity/harmony
   Jnlty/harmony
perspective
similarity - seem repeatable with other elements
continuation - sense of EXTENSION (pattern or line) beyond depicted area
                                                                                                                                  -light/heavy
                                                                                                                                 -stable/unstable
```

/ Time

Sensory Expansion

Sensory expansion in the vrl -MR version = infrared, UV, magneto reception, enhanced smell

\> converted to:

\> magnetoreception converted to visual line-based fields \> disruptive

> only activated over certain threshold

> smell uses Latent Space forms - as fusions of existing 3d grams for known and identified and calibrated smells
\(\) > see smell emanating from sources
\(\) > software shares scent data collected by others and stores past data as you nove, creating a Visible Scent Map - with grams surrounded by radiating colour field of

> infrared - mode - colours remapped to visual spectrum like IR cameras
\> why not just use an IR camera? How different?
\> this is INTEGRATED INTO YOUR EVERYDAY VISION/COMMUNICATION
> 3D - you see a 3D, live IR view - your brain learns to understand it, and you stop
seeling the colours, and just feel if, like another sense

```
Input /sensors
Ir
Magneto
\>directional
\> and magnitudinal
||> can see earth's magnetic field as well as that of the city - buildings etc - new landscape
```

Visual \> 2d \>3d

-auditory -olfactory -Haptic non vibrational

Invasive bci or association training =

-gustatory \> PRIME REAL ESTATE - so underused - so much more possibility for communication \> communicate emotions with taste/smell

-proprioceptive -balance -temperature

Avatar Modification Logistics (#87)

/ avatar moves to carry/enact verb \> what about user's existing avatar? What if users want to move and show their own location while a sentence is beling "enacted" \> grammatical avatars are DUPLICATES \> emanate from the user \> smaller \> sentence sized > twanslucent

Sound Logistics (#88)

/ do we want sounds?

- > detract from abstract nature closer to natural lang
- \> may afford using voice, as more familiar \> so what?
- want people to use the visual modes, push the boundaries of possibility for communication

\> if used sounds

- \> sounds for each gram
- \> how generated?
 \> BCI Random sounds generated for each gram
 > tester presented with 3 options for its meaning (visual 3d) grams) sequentially
 - > FFG detected
- \> not sequentially eventually detect using eye-gaze which gram the user looking at + combined with EEG

> gram user most excited/stimulated by, while hearing the audio sample = highest score for its relation to said sample (easy to detect/classify with EEG

- > test with worldwide and culturally diverse participant sample
- > each gram tested against many audio samples > each gram has a score for how much it relates to each audio
- sample and vice versa Machine Learning Algorythm (MLA) looks for patterns, and
- uses to generate new round of sounds, based on this logic

 > MLA-generated audio samples tested against each gram
- MLA refines samples through multiple rounds, until reach maximum EEG stimulation/recognition quantifier for each gram

> these sounds available to play automatically when user select gram, to allow learning

> eventually users learn sounds

> natural sound variations (during user articulation of them)

> natural sound variations (during user articulation of detected, and impact on EEG recognition pattern* recorded \> used to refine official audio samples for each gram \> this continues as the language continually evolves the shifting user-base, and culture



Flavour/tone

/ EMOTIONS

Categories:

/Happiness : sadness / Excitement : boredom/apathy/tiredness

excitedness = frame rate / motion
\> excited = fast motion of moving items; regular frame rate
> bored/apathetic/tired = slow motion of moving items;

onion-skinning
\> all animations and user avatar motions have motion and frame rate variables

/ Confusion : comprehension - especially useful when explaining things \> confusion = avatar pixelated \> how do reverse?

\> comprehension = avatar momentarily pixelated > unpixelated

> comprehension = avalar momentarily pixelated > ur > show spectrality \> more confused = more pixelated > more comprehensive = depixelation occurs faster

Distinct:

Modes to use:

-definition

-aspect ratio -depth

-lens mode

/ Visual accent:

>could even have different modes that replicate your favourite way of >could even have different modes that replicate your lavour interacting, yet are translatable \> or even outwardly presented as such, as a "visual accent" ||>E. G. Minecraft blocks, 3D brushstrokes, Emojis,

Logical Flow

```
/ Flow of CAUSATION or TIME (incl. sequence)
```

/ Marked by arrows

/ Sentences are NOT DIRECTIONAL, just follow the arrows

/ Not unilinear - flows can DIVEDGE and CONVEDGE

\> converge

- 'Mark and Suni both like the cake" = arrows from Mark and Suni
- Awark and sunt out like the cake" = arrows from wark and sunt avatars to a single "cake" gram
 \> "the floor is slippery because you split the glass, and the kitchen is
 tilled" = "you split the glass" in a box above/separate from "the kitchen is
 tilled" (in a box), with an arrow(ed line) going from each, to "the floor is slippery" (boxed)

\> diverge

/ Examples of complex divergent/ coonvergent flows symmetrical and assymetrical (synthetic/analytic vs supplementary/tangentially)

/ (while sketching possible sentences, realised LFL should be at top of boxes/bubbles, not bottom, as top = actions (verbs carried on top of avatars); bottom = qualities/attributes

the "IS line" runs through the middle

Sentence Progression

/ Sentence progression marked by parallel Progression Marker line

Punctuation

/ Sentence progression works as PROGRESSIVE TERMINAL PUNCTUATION (e.g. full stop)

when PROGRESSION MARKER STOPS (and so comes to its thinnest point)

\> as this is encoded on the fly, it is RELATIVE \> sentence may end with progression marker at thicker or thinner

point than previous sentence \> can LEAVE WIDE at termination, to show "sentence finished, but I may pick it back up, or you could" (like "So...." or "Yeah...?)

/ Like rising or falling tone of voice \> could take on new usage: intonation at end = question) w usages, just like English tonality (e.g. rising

Implications

/ As LOGICAL FLOW and SENTENCE PROGRESSION SEPARATE, can TERMINATE ONE while CONTINUING THE OTHER \> like semicolons and sentences containing connectives like

"additionally" \> "I like cake, because it's sweet: Dan has never liked cake." Viva Y3 General(#91)

\> DNA and brains - we make chunks of general types of stuff, that have the ability (when / "stat about AI learning X fast" combined as a system) to DIFFERENTIATE into more specific things \> DNA is the VEINS in the marble Why is AI so much faster as learning to play chess or GO than us? And why can it beat us? / THe way we learn language, is by the differentiation of words, phrases, and structures We do it still, as adults, as we learn new words and concepts The human immune system can fight off viruses that evolve ____ fast that __ We try them out in the ENVIRONMENT, and the ENVIRONMENT tells us that that word effectively communicates certain concepts, and it is appropriate in this given situation, or place in a sentence How can the human immune system fight off viruses that evolve Because it evolves And we learn through winces and twitches, or a slight lack of understanding, or need for clarification, that Because it is constantly creating new variations (mutations), that are selected for another time wasn't quite the right context of usage And so we write off when it didn't work, and use it in the type of situation it worked in again Why is this so powerful? And this time, we notice it works in this sub-context of the greater coontext And next time, within the same context, we realise it doesn't quite apply in that sub-context Because the SELECTION between variations isn't left to the individual, but its environment We develop understanding through nuance The SELECTION, the DESIGN, is not made by one individual//cell , for each and every use case We MUTATE and KEEP what WORKS, letting what doesn't atrophy The LISE SELECTS the DESIGN Just as neural pathways that are used are strengthened with every use, the junk atrophies, because it is To design a perfect computer programme, input by output, to learn and understand the rules of a game, even, the rules of language, and anticipate every exact input and output in every precise context it may encounter, would take an impossible overtaken \> from [IMAGING] we can see what we used to think of as predefined sections of our neocortex. amount of time and energy. Multiple cycles of Iteration, execution, and refinement. specialised, as programmed, for a certain task (e.g. controlling a left arm) are waging a constant battle for territory. But if we let the SITUATION do the work, that time and energy becomes infintesimally small in comparison. \> as what fires together wires together \> and so as we use our left arm, the part of our brain for controlling it expands, and pushes at the Because we outsource the iteration and testing and refinement to the very SITUATIONs we are trying to design for. boundaries that are its connections to all the other parts \> and when we lose that arm, our brain How can an AI learn a language so much faster than humans? \> clock speed / EMpiracists highlighted the importance of EXPERIENCE \> computers are faster \> believed the mind to be a TABULA RASA - blank slate /Rationalists like Leibniz understood that for we are, like the sculptor's block, innately PREDISPOSITIONED \> toward certain types of knowledge How can AI DEVELOP so much faster than humans? experience to affect us, we must already have some basic concepts - Lebiniz himself using the analogy of \> its evolutionary cycles are much shorter and more frequent the sculpto'r sblock \> humanity evolves (reference quy) on the level of lifetimes \> Kant knew we are born with SOME INNATE concepts \> because humans are created - brain go through a short window of extreme plasticity in our youth - they can rewire \> from those building blocks we make sense of EXPERIENCE, and use it to synthesise more nuanced themselves much faster concepts \> languages are a million times easier to learn as a child, not just because of this plasticity, but because of the \> sculptor's block analogy foundationality and primacy of this wiring \> our understanding of these languages co-develops with our understanding of LOGIC, and THE WORLD \> trying to learn a language after these building blocks are in place requires that the new language be built USING What if we were to create a language based on these innate concents? THESE EXISTING concepts and according to existing structures \> trying to learn a language piecemeal, logically, in a classroom, takes years -Leibniz's "universal character" > yet when we need to, if we dump ourselves into a foreign environment, we can learn in months what could have -Blissymbols \> didn't catch on \> because we use the superpower of neuroplasticity we still retain- we let our brains "do the work", and it's a -Emojis million times easier than "thinking". We use MUTATION and DIFFERENTIATION -FI but humans are still amazing But the world is expanding. We are no longer confined to the 2d... What if we could use not only 3 How is it that we can fit the instructions to make an entire human, every cell, every tissue, and organ, every brain cell, all in Dimensions, but the entire ENVIRONMENT, and the appearance of our SELVES, to communicate on a the right place linguistic level Everything that human will do and say? -VŘL how is it we can fit these instructions in every single cell itself? \> because they aren't the instructions - they're a BLUEPRINT / There is a lot of data in my Metamap - have a look at the contents page - it will help you to > we grow based on an EMBRYONIC, DIFFERENTIATIONAL LOGIC (BLOCK OF MARBLE) Michelangelo - "The sculpture is already complete within the marble block, before I start my work. It is already there, I just as individuals have to chisel away the superfluous material." \> embryology [RESEARCH] in the primordial soup, and ends with the singularity. Along the way, there are emojis, VR, and little hats called BCIs that look like squids that read your brain Welcome to the world of... (cheesy) / Knowledge ecosystem \> how does it integrate as one system? \> how are they connected? / Compare new emojilang/emoji combinations/words to FOREIGN LANGUAGES \> exemplify inherent difficulty in parsing/reading an unfamiliar language so difficulty to misattributed to Emojilang itself

DIFFERENTIATE this information so you can find what you what you need/want to know - as a team, and

The story of human communication is a story that began with subtle chemical messaging between cells

Using AI:

/ Explain Latent Space \> Pi explains it

\> feed into avatar speech generator

Elmage of screenshot of All chathot *Pi* on language

"I think there's a big question here around what a language actually is, and how different technologies can be part of that definition. At its most fundamental, language is communication. It's a system of signs and codes that help us communicate. It's not limited to spoken language, or even written language. So maybe we could expand our definition of language to include software, and websites and bots, and games. Do you think that's possible?"1 I'm using Kant - who tried to categorise and rationalise everything We is inorganic and unevolutionary
He thinks before he feels

Which is just what we need to begin

Because while evolution is an important process, and just as with our selves, for the designing, something must first be there to be designed

So how do we find a stable foundation from which to build a system of communication'

To communicate, we must perceive, a understand what we perceive, through cognition, generating meaning, and categori what we perceive into symbols - concrete units of meaning, that allow transmission of meaning via understanding.

But with evolution, what we put in dictates what we get out, so we must first ensure a solid foundation. And one that is aa close to universal as we can get (bearing in mind we have evolution to iron out the kinks)

We go right to the source. The foundational concepts of cognition. The cognition that enables our individual constructions of

And Kant has answers to these buildings blocks of cognition.

If everything comes from outside, we are just robots Kant wanted to understand how we constitute a cosmos out of chaos

(Rationalists - Apinoza, Descartes - reason is the way to secure knowledge

Kant synthesises these)

Reasoning is the operating system

The rules of thinking can't come purely out of the world

He wanted to understand pure reason

Pure reason takes the chaotic data of experience and shapes it in its own way \> by formulating conc

\> concepts are how we see the world

Sensory inputs and organising concepts have pure forms we can know a priori And thus know to be universally and necessarily valid - P. Guyer, Kant

A priori = what is left when "one removes from our experience everything that belongs to the senses"

Pure thought = "the Understanding"

Sense experience is the crude object, the block of marble

Without sensibility (the senses) no object would be given to us, without understanding no object would be thought Thoughts without content are empty, intuitions without concepts are blind.

Time and space are our first building blocks

For they are the preconditions for experience (input) to happen at all

We must understand time and space intuitively

///

Space is a fundamental understanding. When I hold up a pen to a baby, it can learn what it is because it Discursive - running through - journey alroady understands the concept of "thisness" "the I think must be able to accompany all my representations; for otherwise something would be Singularity
And multiplicity/plurality - multiple Objects

And distinguishing a singularity or plurality from a/the totality - everything else.

We must understand "everything-Ness" and "the all" - totality / universality

The same for space - now, then, when? Particulars in a totality

We must understand succession, and

(We categorise experience into concepts (a way we hold an idea)

(Concepts allow us to select and organise our experience)

Categories are like containers we fill with experience

How the Categories of the Understanding allow us to understand the

The Understanding is discursive (Latin - running through) As we run through something, we make JUDGEMENTS

Encountering an object - a leaf

/ identify as separate from surroundings

/ judge part of the environment as separate - based on attributes - colour, shape, texture, smell / WE separate the properties from the leaf as a whole then unify them together again to form the more complex singularity of an object

"Judgements are acts in which the understanding unifies diverse representations into a single, more complex. Representation of an object" - J. V. Buroker. Kant's Critique of Pure Reason

/ the judgement splits the world into parts, analyses it, then We set goals and reason how to achieve them unifies it back together again into a representation of an object or idea

Just like my Red-Blue Debates - my Analytic and Synthetic Colour-Coded Design System \> which can be mapped to the Double Diamong Design process

Explaining the importance of the categories - look around at the room - look at all the things you have Explanning the importance or the categories - look around at the following to tool wat at the times buckground hosen not to look at are experience - the details larger and at menal; that have faded into the background he world is challed and full of so many things, so much sense data, and molecules floating around (that could be spliced up and categorised in any number of ways.)

\> we must have categories, containers which we can fill with the water of this messy sense data, to generate understanding.

\> what if we could wake that up the environment. And change utilise all these categories.

The Transcendental Deduction

/the world is chaos - full of objects and impressions and sense data that could be cut up in a dizzying amount of ways

Applies to time too

\> different speeds of everything around you

The concepts we make using the categories (apple, tree, rock)

"they must be ordered, connected, and brought into relations" - Kant

By observing things (through time and space) we add things to our concepts of "apple, leaf, tree"

We recognise the world (totality) in its parts/ UNITS, breaking them down(analysis) , then UNIFYING THEM Into a UNITY, SYNTHESISING THEM IN CONCEPTS

even a pillow of patterns - we synthesise either r apart of it, or all of it, into a Unity

For us to construct concepts out of experience, we also need MEMORY AND IMAGINATION

"Apprehending identifiable objects requires reproducing in imagination the previously apprehended parts"

-an apple, previous representations must be remembered, and recalled in the imagination, to be synthesised

We can't experience them all at once
As I turn the apple it changes colour, I must rmemeber the colour on the other side, holding it in the

Abstract concepts too - love, friendship -breaking phenomena into parts, recalling them, then unifying them into a concept

THIS IS THE TRANSCENDENTAL UNITY OF APPERCEPTION

We use this for eebything.

"a Unity of of consciousness that preces all data of the intuitions

"a pure, original, unchanging consciousness - Kant

" we are conscious a priori of the thoroughgoing identity of ourselces with regard to all representations that can ever belong to our consciousne

represented in me that could not be thought at all, which is as much as to say that the representation would either be impossible or else at least would be nothing for me"

To judge and organise any experience, we must be able to carve out a unit to judge, to compare it to other units, to recognizer it's qualities, to count it, etc.

I then judge thay these judgements belong to me

"I can make judgements about one representation, some representations, and All of my representations"

The unity centres everything - space and time are the vessel; judgement, synthesising, and understwinding are the process; the categories of splitting up, counting, recognising the gualities - are the RULES, the TOOLS, ; along with our imaginations and memory - to do all this - to survey everything

A priori, universal, required, necessary

From which everything else can be experienced and understood

"thoughts without content are empty; intuitions without concepts are blind"

Reason is pure and hwo we do things It's what makes us human The ability to set and achieve ends We should respect that ability in others

"so act that you use humanity, whether in your own person or in the person of any other, always at the same time as an end, never merely as a means

If you force someone out of the achievement of their own ends, you've gone against the reason of a other ///We must treat people as ends in themselves ///

The Categorical Imperative (Categorical - unconditional, always true)

\> we must not enforce our will on others, including our will for how they communicate

\> systems must be taught in some way
\> this should be treated as a baseline

\> our usage is fluid \> fluidity increases ambiguity - need a standard everyone can know

\> use the principle of DEMOCRACY to ensure there is a standard, yet the standard is fluid and ntative of the population of its users

II > Unicode Consortium enforces their will on others through Emoji

\> when consider their powers of influence, as (Google, Yahoo, IBM, Microsoft etc), financial interests, and the necessity of a visual communication system, we see how Emoji form part of a Digital Technocracy / Tech Technocracy

\> EvoLang overcomes this by democratising the means of communication

Universalising maxims - would it create a LOGICAL CONTRACTION - a Contradiction in conception

-if we all kill each other or all lie, we couldn't kill, and we couldn't lie - as there would be no people, and there would be no truth Cheating, stealing

But also some. Other things

Internal contradiction with the proposed universal Law itself

Contradiction between the proposed universal law and another rational obligation that treats reason as an end in itself

We must treat everyone as ends in the themselves

Our moral ideas should be symmetrical, so as to be universalisable - otherwise there would be chaos

Explaining Space and Time - explaining the Logical Flow Line and Progressive Punctuation (#93)

SPACE and TIME

\> CONSIDER TIME AND HOW IT APPLIES TO THE LANGS \> flow of logic

> sentence progression

/////

Flow Of Logic:

- sentences show a flow of logic. But they evolved for spoken language, not even written, let along anything in the visual 3D digital realm we now partly and increasingly live in

In spoken (and signed to a degree) language, sentences also progress in time, and particularly in English, which relies heavily on word order, bounded to the structure of sentences - the ordering of time.

But what if we could present the logical flow in a way that allows us to examine it from any angle or starting point.

Sentences in English are formulated in a way that makes trying to swim upstream or even slightly out from the flow of logic incredibly difficult. You know this if you've ever tried to read a philosophical work, academic paper, or even a simple essay.

writing gave us invaluable ability to put these concepts into visual space, that we can see. There's just so many complicated interreliances and modifications of these basic symbols, that joins them in a way that is completely unfamiliar to the innate structures we use to perceive the world

A world based on space and time, entities and emotions, tigers in the grass, berries in the bushes, and fresh kills out on the plains

Importance of Space and Time:

We are inherently visual creatures - and even the blind think in space and the spacial metaphors of language, and time.

Space is easy to concretise, to divide and categorise, thanks to innate structures that support this visual mode of cognition

And time can encode information, by organising sounds into words

But the invention of writing, though founded on a visual mode in its pictographic roots, gradually devolved into useful, yet complex transliterations of speech - of the use of time.

Once these characters became abstracted, they lost this natural innate cognitive support, and became difficult - something to be taught and learnt, rather than absorbed.

It seems it may take serious effort in this society, to avoid absorbing spoken language. Our brains know how to process audio and space better than abstractly encoded novel concepts.

audio and space better than abstractly encoded nover concepts.

Yet reading is something many people struggle into adulthood, and as we know, until recently, most people couldn't read. They could certainly speak and listen. And they could certainly understand pictures, and stained glass windows.

__% of people in the UK have dyslexia

While dyslexia remains unknown amongst societies that use pictographic writing systems???????

If only we could capture this

ii oiliy we could co

EL

Uses space in a new way - 3 dimensions

And eventually, with invasive BCIs, will allow us to experience and simulate all our senses - we can already do haptics, visual, and spacial sound

Multimodal ethos

Haptic interface Audio briefly

But the most benefit comes from the spacial possibilities

while we will be focusing on the visual manifestations of this 3d vr space, spacial audio and symbolic and linguistic Haptics provide not just an extra dimension to the experience, but an opening of the world of VR to the blind.

Imagine being blind and hearing an object to the right, then reaching out and feeling it. Feel its size and form. You couple this with feedback from your Haptic Interface, either abstract, as a symbol of thst gram (like a Haptic 3d brialle), but even descriptions of the gram in your native language, if Desired (especially, Helpful for learning these HAPTIC SYMBOLS/HAPTIC GRAMS)

But using space to represent concepts in a way we can traverse and navigate, grams we can look between, and grammar or grams we can understand through the qualities of the VR or MR environment around us, as well as our avatars

Textures (visual and Haptic), colours (or associated Haptic symbols), motion, size, position of objects.

Even abstract forms to represent AI Latent space concepts

Kant's views on Space and Time:

Space is a fundamental understanding. When I hold up a pen to a baby, it can learn what it is because it already

understands the concept of "thisness"
Singularity
And multiplicity/plurality - multiple Objects

And distinguishing a singularity or plurality from a/the totality - everything else.

We must understand "everything-Ness" and "the all" - totality / universality

The same for space - now, then, when? Particulars in a totality

We must understand succession, and

(We categorise experience into concepts (a way we hold an idea)

(Concepts allow us to select and organise our experience)

Categories are like containers we fill with experience

Explaining Red-Blue Dialogical Debates (#94)

/ DIALOGICAL

\> RED-BLUE DEBATES - get creative

\> TICK and CROSS mechanism?

\> EXPLAINING DIAOGICAL DEBATES:

> Socrates cautioned, on the invention of writing, that its non-dialogical form allowed for a certain " "

> LINK TO HOW SPOKEN LANGUAGE has so much more "flair, nuance, fluavour, and ... COLOUR"

\> Emoils emerged as an answer to this gap

\> explain emoticons > emoii history super briefly

> explain Danesi/Evans - Emoji fulfil these 6 elements that spoken language communicates, that are lost in the omission of paralinguistic and kinesic (body language) features

\> later, take this thread (and even repeat the on screen visual quote) of "flair, nuance, flavour, and COLOUR" or "flair, nuance, and colour"... "this, flavour,"

> and reprise it when introducing VRL

/ Analytic and Synthetic - like our process of understanding of the world, according to Kant

/ Can map to the Double Diamond Design Process model

Interface - control of the VR language (#95)

/ Tutorial uses eye tracking and bci confusion states measuing

How does the language use a BCI? How does the BCI interface work? How do you use the VR language?:

/Eye tracking chooses where to place objects in the sentence - mockup \> dot matrix of possible places to put next item, selected one (stared at and focus and imagine "pushing" with MI (motor imagery)), (stared at and focus and imagine "pushing" with MI (motor ima)
*It is highlighted

>> popup dialogue of word insertion
>> at start categories - radial - stacking
>> categorised based on common usage in similar contexts using Neural Network
>> eventually just BCI - Neural Network (AI) detects imagined gram
>> can create abstract synthetic grams based on merging of concepts
>> alongside ask for Latent Space representations - displayed - can choose appropriate one

\> alongside ask for Latent Space representations - displayed - can choo:
\> next time it comes - display previously used Latent Space grams first
\> develop own language of Latent Space grams
\> eventually get shared
\> global "popular" section
\> leads to creation of new grams

\> concepts move from Latent Space to human Ideaspace (become common human concepts)

Designing the VRL language 5 - Logistics (#96)

While designing VRL user interface:

While designing VRL user interface:

/ Sound-focus mode - all visible attributes converted to Al sounds
\> already doing the training mode thing

/ can synthesise grmas for verbs and adverbs too
\
/ ALL main categories of word "object:verb;adjective;adverb" - can utilise grams from a global (inter-category) set of categories:
\> Concrete
\> Concrete
\> Abstract
\> Relationship / Auxillary
\> Attributes/Senses
\> People
\> Activities

\> e.g. gram for "big cat" could be used as an adverb (by attaching to verb with single, outward-facing line), to mean "feroclously, like a big cat"

Vhey is it needed? (#97)

/need for it = emojis evolved to fit our need for expressing the paralinguistic cues lost in textual communication - a combination of infographics (notably, ISOTYPE - International System of Typographic Picture Education, designed to communicate complex information and statistics to a broad audience), emoticons (originally proposed as joke markers* on an MIT online bulletin board), and Manga - emojis were designed by Japansee designer Kurito to overcome the problem of communicating complex information from the budding mobile internet, on they displays. Weather forecasts couldn't be written in type, so use symbols instead.

Freeplay mode (#98)

Free play mode: \> no rigid structure, just using all the tools available to communicate a feeling. idea, concept, experience

/ Latent Space 3D forms \> modify on the fly - "zoom in on this bit - make it smoother and more happy

- > spectrum axes example from Context Report
- > do one for object

/ we could communicate complex emotions or stories using mini games/simulations

\> to express an emotion, we let the other play an AI-generated mini game

--- USE EXAMPLE PAIR THAT MET ON EVOLANG - - - -

"how was your day"?

> frustration = you HAVE to complete this puzzle to continue speaking

> or a game you play against each other

\> recently talking to some racist, sexist Finnish guy on Digital Eurovision party I organised in VR, he was touting the power and simplicity of settling an argument with a fist fight. You take it outside, you fight clean, and you shake hands when it's over. The best man won.

What if you could do this in VR or AR, with games?

It needn't be VR - take chess, for example - every move communicates something to the other player, builds tension and suspense, and relieves it, all using a system of coded symbolism with mutually understood meaning. It is a kind of language.

Now take an argument to VR

Or a debate

The avatars are you, the game can suit the argument, or change through new levels as you change subjects

Perhaps you/Lin feel neglected in your relationship, due to your boyfriend Dan's new job and blossoming social life - you want to explain the importance of prioritising in your relationship. You place 7 grams in front of you, and the other has 30 seconds to pick 3 to keep, and at least 1 you specify, or they lose your "Lin feeling cared for points" [game bar decreases]

Maybe Lin reluctantly plays the game, and actually finds herself understanding Dan's point of view a little more, as well as her own priorities, and how to better manage them - including Dan in the equation.

She counters, however, that she understands the importance of this, and she apologises for making Dan feel this way, but she wants him to understand why she spends so much time away at the moment.

She initiates a 3D VR simulation for Dan, in a combination of their favourite/characteristic visual styles that represent their personalities/ experiences mixing (Pixel art / brushstrokes); in which he has opens a door to a board room for his first meeting at his (her) new job. He can feel heat in his face from the BCI or Haptic interface, and feels his sweaty hand slip a little as he grapples with the door handle.

A kind, voice that actually sounds like it's coming from behind him, says "let me get that for you - I feel like the handles in this place were designed by an octopus or something

He laughs. He instantly feels a little bit better. Wait, as I actually nervous for this dumb exercise Lin's doing for me?

In this short five minute simulation, this kind stranger becomes his first friend Smiles and realistic eye contact (thanks to eye tracking), fast forwards to stifled boardroom giggles, and shared glances at the boss' ridiculous demands, all converge toward a genuinely funny chat in the kitchen, using an AI bot that understands Dan and what he finds funny, but also relaxing. Jokes about

You: Oh, our boss? Don't worry, they're like a cup of coffee without any caffeine. All bark and no bite! They may seem intimidating at first, but underneath that tough exterior lies a teddy bear in a power suit. Just keep some honey handy, and you'll be finel

New chat

Model: Default (GPT-3.5)

Give me examples of jokes someone would slip into conversation in a chat about the demanding boss, at work with a new-coworker, to sooth them. The jokes are integrated seamlessly into the conversation snippets you generate, and are funny and relaxing, using imagery that is funny, while also calming

3/3

Chat Snippet 1

New Coworker: I have to say, our boss seems guite demanding. I hope I can keep up with their expectations.

You: Oh, our boss? Don't worry, they're like a cup of coffee without any caffeine. All bark and no bite! They may seem intimidating at first, but underneath that tough exterior lies a teddy bear in a power suit. Just keep some honey handy, and you'll be finel

New Coworker: Haha, that's a great way to put it! I'll remember the honey trick Thanks!

Chat Snippet 3

New Coworker: Is it just me, or does our boss have an uncanny ability to detect the

smallest mistakes?

You: Oh, you've noticed that too? Our boss is like a ninja detective, equipped with a magnifying glass and a sixth sense for typos. But hey, look at it this way: every mistake they catch brings us one step closer to perfection. Just imagine our office as a puzzle, and our boss as the puzzle master. We're all part of their grand guest

New Coworker: Haha, I never thought of it that way. Let's embrace the challenge and become masters of this puzzle

Remember, laughter is a great way to ease tension and build rapport with your new coworker. These lighthearted jokes should help create a relaxed atmosphere while acknowledging the demanding nature of your boss.

Chat Snippet 2:

New Coworker: Is it just me or is (boss) watching us like constantly?

You: Ah, the legend of our boss's doppelgänger! Rumor has it they mastered the art of time travel and possess the ability to duplicate themselves. But hey, think of it as having your own personal guardian angel, watching over your every move. Just remember, even if you feel like you're under constant surveillance, you can always outsmart them with your ninja-like stealth skills. It's like a real-life game of hide and cook!

New Coworker: I'll have my camouflage gear ready for round 2

At the end of the chat, Dan/Lin's new friend invites him out for a drink after work, and it slowly all clicks into place

"OK, Lin." he says, humbled and a little emotional from the experience. This is the first time he has connected so imitately with Lin, with her experience, and her life, her self - and in that moment, he realises they can get through anything together.

He reaches out to give Lin a massive VR hug, that they both feel - outside, and in.

> AI - generated video \> show example

> Avatar Latent Space example - spectrum