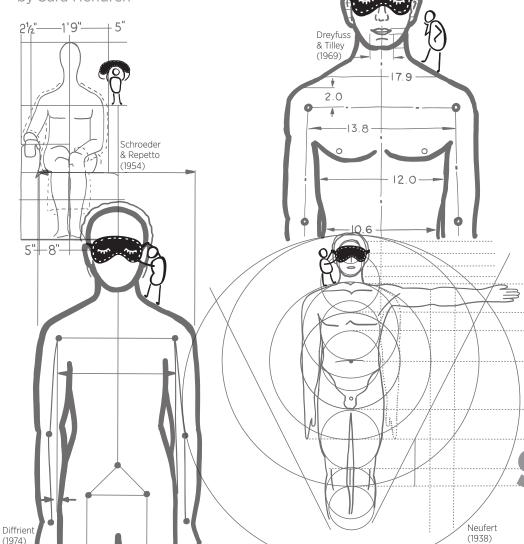
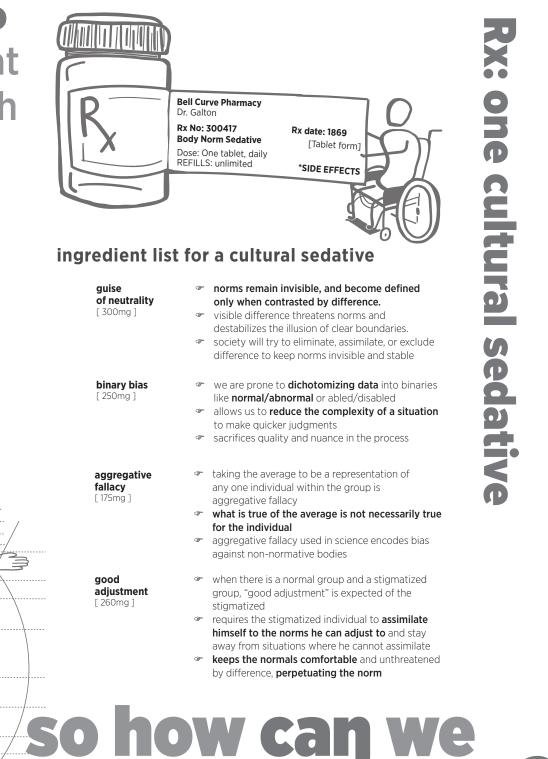
"The idea of **normalcy**... is **so ubiquitous** and mundane that **it's settled into sleep in** much of **our collective cultural imagination**..."

- What Can a Body Do? by Sara Hendren





wake up?



Norms are taken for granted, in everything from testing to childhood development. We forget the constructed roots*, so **we forget we can de- and re- construct these cultural understandings.**



*Creating a "normal" and "abnormal" is a DIY project for society (just with much less glitter and enjoyable outcomes than most crafts).

ability isn't one dimensional

Ability is multidimensional (and each dimension doesn't have much impact on another), therefore, we cannot apply one-dimensional thinking to a complexly jagged experience.

ability isn't fixed**

tion

am

econstruct

Mismatches that result in experiencing **disability come from complex interactions between the body and environment.** It is not merely body pathology or the environment. It is possible to be abled in one context and disabled in another. **A fixed binary oversimplifies this reality.**

disability isn't negative

Individuals are **not always "suffering from" their condition.** Disabled individuals, like those in the Deaf community, can find meaning through their Deaf identity*** and thus **do not always desire to be "fixed"** by medical procedures like cochlear implants. The curative imaginary pops up in this language of "suffering" and "fixing".

🖙 normal isn't natural

"Normal" tries to pitch itself as synonymous with natural, but normal isn't natural. **Consider how few fit the full mythical norm.** **This mentality offers a productive direction for design (rather than the essentialist thinking of "a person is disabled no matter the context, and therefore is unable to do X, so why bother to design anything to do with X with them in mind?")

*** note about disability as an identity: This proposal of disability as fluid isn't meant to invalidate those who find meaning through the disability label. The identity ties people together based on the common experience of living in a world that thinks of their bodies as abnormal and experience stigma as a result. While it would be argubaly beneficial to change the conceptualization of disability to something less fixed, the identity is still valuable to cope with the present.

"measuring up" "on track" "ahead of the curve"

comparison to a normal body and mind, with tracking of developmental milestones, test scores, or acheivement pathways.

Comparisons to the middle of a rank-ordering bell curve are driven by the myth that how close we are to normal is a sign of how close we are to a good health, intelligence, or success.

"quick study" "getting ahead" "developmental delay"

comparison to a normal clock (with "proper" timelines set by capitalism's industrial clock). Disability challenges these timelines*, threatening the norm with its demonstrable difference.

"high functioning" vs. "low functioning"

comparing cognitive disability to determine who is closer to normal, and therefore likelier to lead a "good life." This mentality of a good life requiring normalcy is at the base of the "curative imaginary".

how has it endured?

*Within disability culture, "crip time" refers to the different experience with time due to living in a body that does not meet normative chronologies or industrial time, and/or to the way a disability can rewind or fast forward your position in life.

ability is jagged

low



example: a Deaf individual

a video

wants to enjoy

** 15% of the world

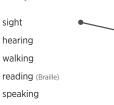
2011 WHO report.

Disability isn't rare.

population, or 1 billion

people, currently live with

disability according to a



ability is contextual*



The video has subtitles and a transcript available.

average

high

ersta

nd

*** despite American

individualism pushing the myth of the

**** Whether it's glasses

prosthetics, humans coexist

or shoes or pencils or

with tools to augment

their abilities.

"self-made" man





They are unable to enjoy the video.

They are **able to** eniov the video.

disability is inevitable**

Whether by birth, age, illness, or injury, everyone will experience disability at some point in their lives.

disability can be neutral Stigma and otherness are results of cultural construction. Disability can be neutralized if we end the curative imaginary that assumes a normal body is a prerequisite for a good life.

what's natural is...

- interdependence*** P
- vulnerability P
- the body-plus**** Ŧ
- adaptation
- bodily variation P

able-bodiedness is niv temporary

Vou normal? (for the U.S.)



- white F
- thin Ŧ
- male F
- (P young
- cisgender Ŧ
- heterosexual (P
- Christian (P
- financially secure P
- non-disabled Ŧ

if you couldn't check every box, you're not normal. but how many of us actually fit this full list* (that claims to be the default)?

☜ Looking at this list, it's easy to see that the norm is a case of intersectionality that could be viewed from any number of lenses. such as race or class. This zine uses a disability lens, given the history of medical normalization of disabled bodies.

"normal" to feed an illusory notion of "meritocracy".

"Normman'

Belskie &

Dickinson (1943)

> *Just ask the contestants of Cleveland Health Museum's 1945 Norma contest. or 1940s USAF pilots - no individual fully fits the norm. (Refer to readings on back cover for those stories)

The content has

The average can be useful in certain situations, like comparing two groups. But as soon as you need to decide anything about an individual,

The average can be useful in certain situations, like comparing two groups. But **as soon as you need to decide anything about an individual, the average doesn't provide any insight,** only the illusion of insight. **We are designing things to be used by individuals,** so the concept of a normal or average user is not a solution to simplify the process.

*Inaccessibility



/ Non-disabled designers don't see a reason to consider

disability in design

"edge cases"

Low visibility rates allow for the assumption of disabled people as rare Prevents people from participating in a space

Disabled people

not seen in public settings

** you are not the user.

practices to avoid



- reduces visibility of disability
 allows the guise of the norm as neutral to remain unopposed by difference
 the tendency to use ourselves and our abilities as the framework or lens for problem solving
 - ${\ensuremath{\,^{\ensuremath{\not=}}}}$ leaves blindspots in the design process
- the 80/20 misconception

the cycle of

inacessibility*

ability bias**

- looking at the bell curve and falsely believing that the middle represents 80% of both the population and 80% of problems worth solving
- sees the remaining 20% as outliers or "edge cases" that are then neglected as cases of extreme abnormality
- designing for as assumed average majority forces most people who are close-to-average to adapt themselves to the design in some way and excludes those too far outside the norm to be able to adapt themselves

 *Taylorism seeped into the student life via standardized education, designed to make
 Average Students who
 Ta80s - Frederick Winslow Taylor
 created industrial organization around the idea that the system comes before the man
 conceptualized "the Average Worker",

Average Students who could become Average Workers.

**Thorndike was the Galton to Taylor's Quetelet. Taylor idealized the average, while

Thorndike emphasized the idea of being like everybody else, but just a bit better.

****Unfortunately, universal

design is a myth, because

accessibility needs for

The desire to have a set

norm to design for is **too**

different disabilities can directly conflict.

reductive to handle

the wide variety of human bodies.

of its interchangability in Taylorism. **1920s - Edward Thorndike****

maximize efficiency*

wanted to rank-order and separate students

The average or normal body was ideal because

•

who followed standard methods to

- believed that learning speed was innate, so resources should be spent on the children with the most "natural potential"
- designed standardized tests and entrance exams to rank students.
- The system rewarded those who were ahead of the curve, shutting out those behind the median.

1938 - 1974 - the "Standard" Body in Design

- multiple attempts to standardize body measurements so designers could efficiently mass produce one product for "normal bodies"
- Anyone outside of the body norm was forced to either adjust themselves to the product if they could, or be shut out.

1960s - 1970s - Universal Design Movement

- push for universal design began with the growing disability rights movement
- universal design wanted to design products that everyone could use in a one-size-fits-all fashion***
- Instead of normalizing bodies, this normalization was aimed at the environment.
 Still, the result was creating a norm that could absorb disabled bodies and decrease visibility of difference.



TL; Quetelet and Galton fueled eugenics with the mathematic construct of the ideal body, which later evolved into medicine's notion of there being a normal body.

Taylor and Thorndike brought the average into the workforce and education, creating a sense of normal productivity expected of the body and mind.

and so a norm was born

how the norm came to be

why inclusive design > universal design

Inclusive design is design for one, extend to many (based on shared needs), whereas universal design believes in the impossibility of designing a single solution that meets everyone's needs (which. given contradictory accessibility needs of certain conditions, is not possible).

*example persona **spectrum** for dexterity







permanent one arm

temporary injured arm

situational holding baby

inclusive design practices

seeking advice from exclusion experts

the persona spectrum*

designing multiple ways to

experience a product

(from Mismatch)

- relying on those most likely to be excluded by a product to give feedback on usability and practicality of designs to make a design more inclusive
- the 20% can be a source of richly adaptive ideas that can extend to the 80% experiencing similar needs on a temporary or situational basis (see the persona spectrum)
- alternate to using a singular persona
- identifies a common experience of mismatch ranging from permanent to temporary to situational
- considers context and human diversity throughout the design process
- allows a multitude of equally valid contribution pathways
- offering choice increases how many people can participate
- (in contrast, fixing a singular way to participate with a design can create artificial impairment to contribution)



1835 - Adolphe Quetelet

Interestingly, "norm" and "normal" were not

before the 1800s. "Norm" meant carpenter's

square, and "normal" meant perpendicular.

used to reference bodies in European languages

- applied error theory* (used for measuring stars) to the human body & introduced his Average Man, saying that any deviation from his average was a moral or physical flaw of the individual.
- This is the beginning of average as ideal.

1869 - Francis Galton

- introduced "rank-ordering methods"** into statistics, looking for math that would scientifically "legitimize" eugenics and rank people on their "civic and genetic worth"
- believed that everyone had "definite endowments" at birth that determined how talented they were, with most people middling
- The new ideal was being "ahead of the curve".

early 1900s - eugenics

- eugenic societies were common in most Western countries, backed by the above "scientific" reasoning
- Britain incentivized the middle class to breed to "improve" country's genetics
- U.S. compulsory sterilization of disabled people
- Germany's eugenics first targeted disabled people

late 1900s - the medical model of disability

- approached cases of disability with the mentality of "normalization", implying that something was lost by existing outside of the norm***
- The disabled body was pathologized for deviating from the norm, regardless of the condition's impact on the individual's life.

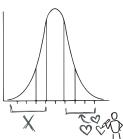
3 3 C C 00

*Error theory states that

measurements represents the true value of that set. Quetlet took this to mean that the average of a human measurement must be its true ideal.

the average of a set of

"Rank-ordering" cut "the normal distribution" curve (aka **the bell curve) into percentiles. Error became "standard deviation".

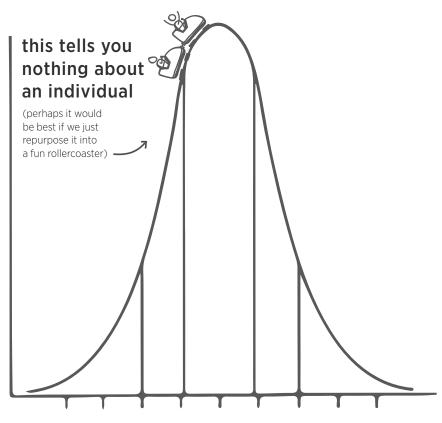


BE

FO

RE

***This narrow-minded assumption that disability requires correction in order to have a good life is referred to as the "curative imaginary".



normal is a myth.

the zine stops here... but the reading can go on .

Hendren, S. (2020). What can a body do?: How we meet the built world. Riverhead Books.

Holmes, K. (2018). *Mismatch: How inclusion shapes design.* The MIT Press. Rose, T. (2015). *The end of average.* Harper Collins.*

Thomson, R. G. (1997). Extraordinary bodies: Figuring physical disability in american culture and literature. Columbia University Press.

image credits: The drawing of Normman on the "meet the minormity" page is a recreation of the real statue. The drawings of the standardized measured men on the *What Can a Body Do?* quote page are handmade copies of the original diagrams. All drawings were then added to with my original drawings/concepts to adapt to the message of the zine. Any image with elements based directly on another work has the original maker's name and year next to the image and is being used under Fair Use guidelines that allow for transformative and commentary-based uses of others' work.



Bood by Lynn Priester We need to talk about

we need to talk about how we talk about bodies.

peeking behind the curtain

the men behind **the myth** poisoning our present day

exposing the mythical norm

the **norm checklist** and why the **norm persists**

reimagining bodies

how we can de- + re- construct our cultural understandings

designing a better future

fitting of individuals, not averages

