

duckcon #5

outliers are all you need

- reducing the asymmetry of information in capital allocation in health and the built environment

to meet the market demand for liquidity in consumer and enterprise health

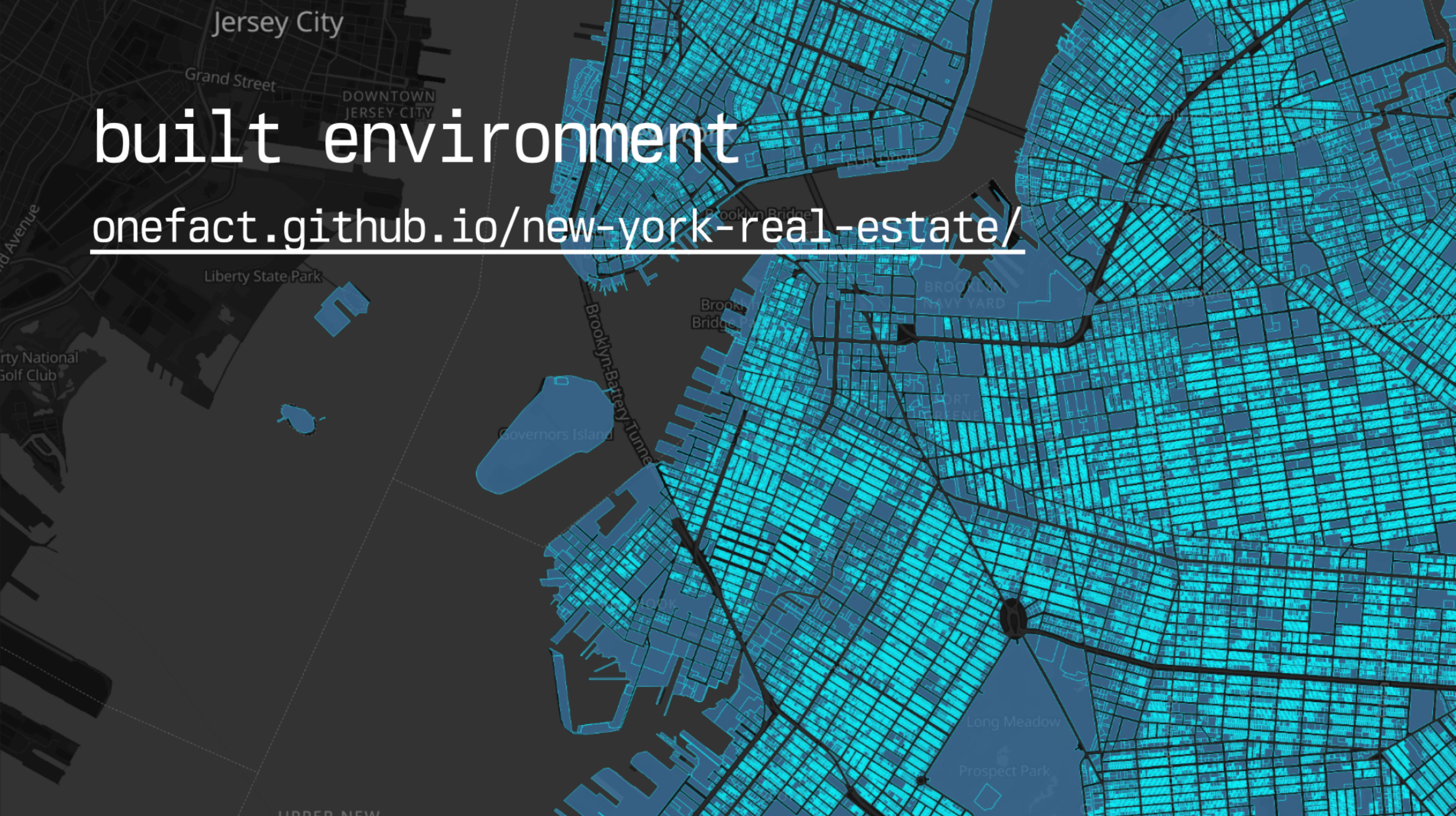
contact: jaan@onefact.org

slides: talk.onefact.org

audio: [dropbox](#) + [suggested backing](#)

built environment

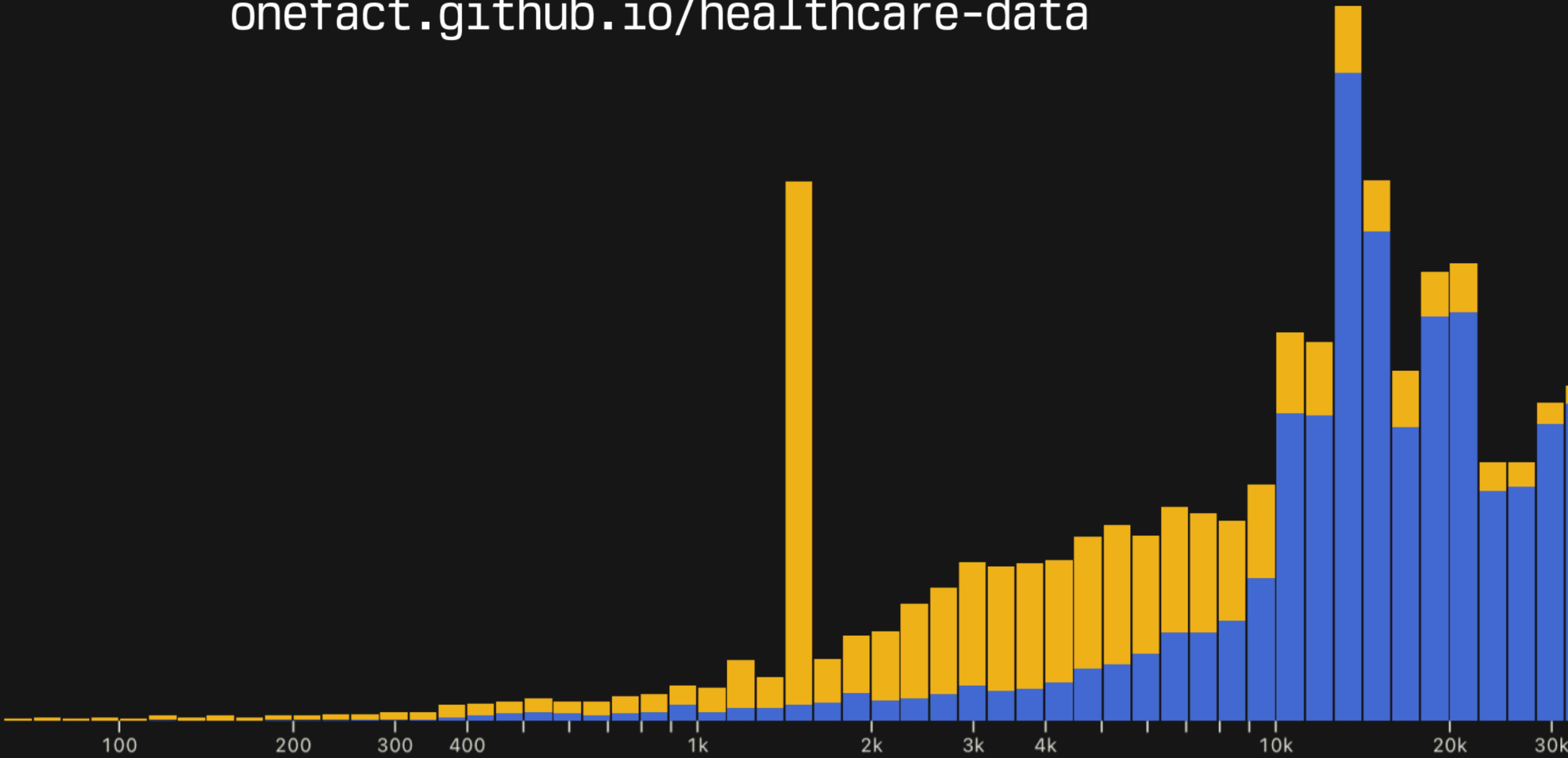
onefact.github.io/new-york-real-estate/



Commercial
Medicaid
Medicare

health

onefact.github.io/healthcare-data

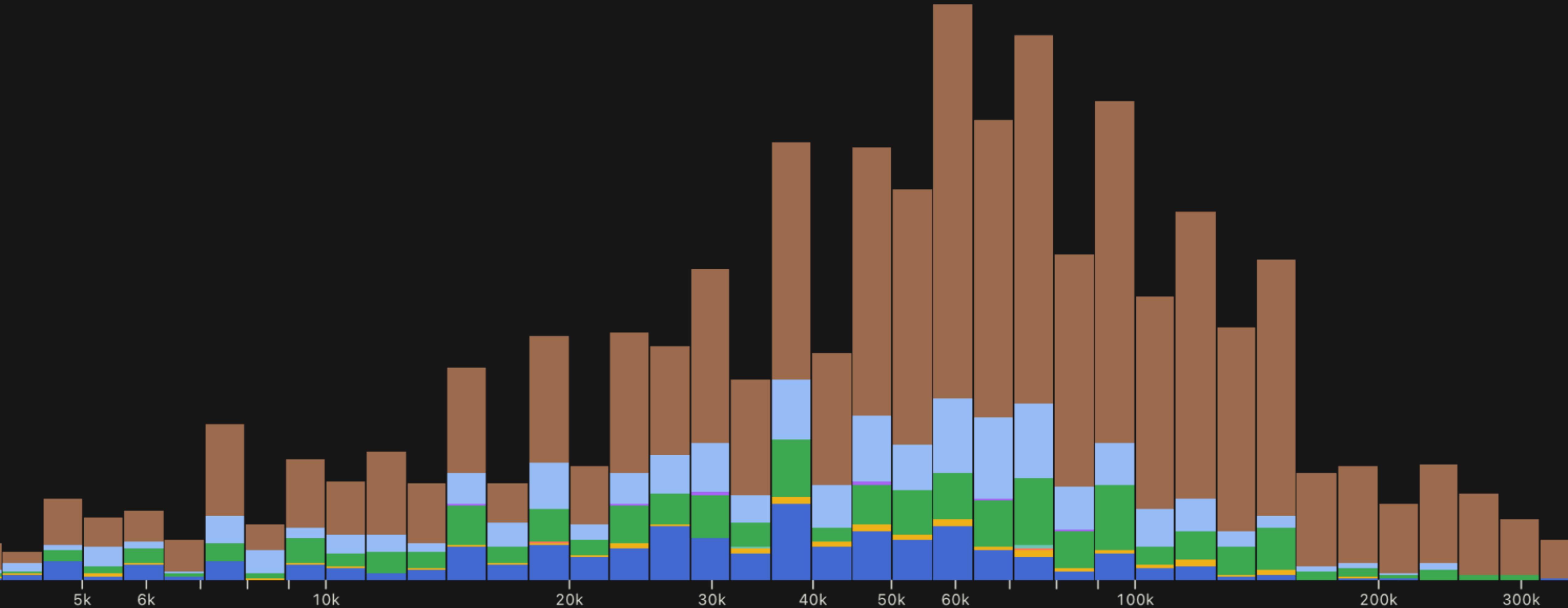


2005

for whom?

onefact.github.io/american-community-survey/new-york-area/income-by-race

- Other
- Two or More
- Native Hawaiian and Other Pacific Islander
- American Indian or Alaska Native
- Asian
- Alaska Native
- American Indian
- Black or African American
- White



collective intelligence

results in the most accurate
differential diagnosis

- with which model?
- is it accessible to low- and middle-income country clinicians and patients?
- how do we deploy it and run inference at-cost? how do we comply with hipaa?
- metric: quality-adjusted life years per floating point operations per second

growth strategy

malawi: 2 residents

trained with childfx.com (<https://link.springer.com/article/10.1007/s00247-023-05754-y>)

recent paper showing it improves detection:

<https://link.springer.com/article/10.1007/s00256-024-04698-0>

radiology is easiest, then clinical notes have a 5-10 year time horizon for financial return, priced at-cost via our 501(c)(3) non-profit for providing services. full deck of strategy.

technology convergence

transformer like clinicalbert (or vision transformer)
+ credentialed humans (md, phd, bsc, # years training, np, doula, etc)
+ labelstud.io

linkedin link

Laura Heacock, MD, FSBI · 2nd
Associate Professor at NYU Langone Health
1mo · 1
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Associate Professor at NYU Langone Health
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Laura Heacock, MD, FSBI · 2nd
Associate Professor at NYU Langone Health
1mo · 1
This pathology multimodal genAI model has an interpretable chatbot component. Similar to ongoing radiology work at [NYU Imaging/ Radiology](#), this is absolutely where the medical imaging field is heading.

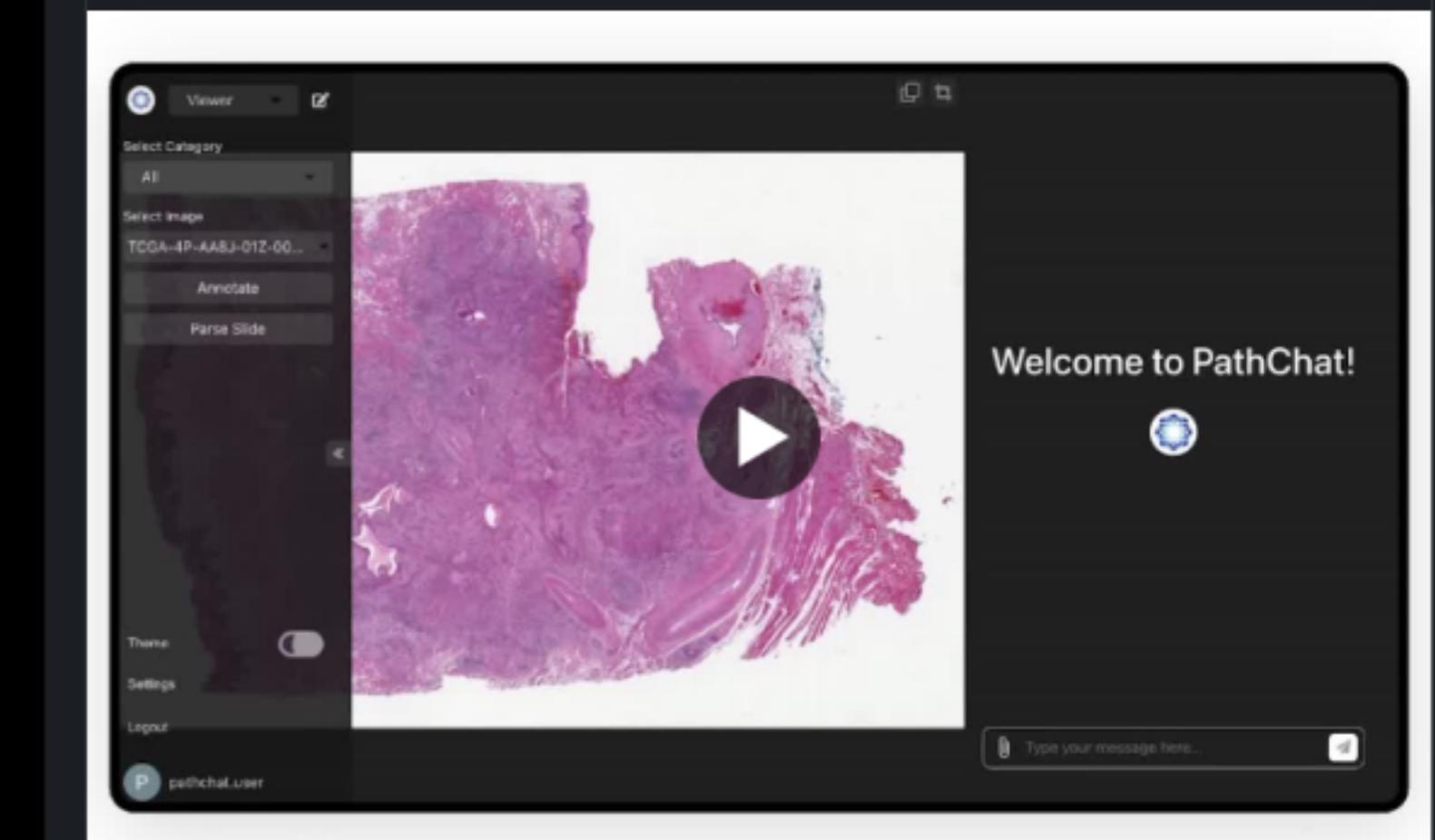
100 worth a read as all medical imaging modalities are gradually converging on similar technology.

Faisal Mahmood · 2nd
Associate Professor, Harvard & MGB - AI for Health
1mo · 1
⚡️ Excited to share our new Nature article building and evaluating PathChat, a multimodal generative AI copilot and chatbot for human pathology. Article: <https://lnkd.in/epAYukDj>

We leverage our previous success in building foundation models for computational pathology such as UNI / CONCH and combine it with the advancements of large vision language models and generative AI to enable PathChat to answer diverse pathology-related queries. We assessed PathChat using both multiple choice diagnostic questions and open-ended questions.

Congratulations to Ming Yang (Max) Lu Bowen Chen Drew Williamson Richard J. Chen and everyone else who contributed to this work.

Also see blog post from [Ming Yang \(Max\) Lu](#) about this work: https://lnkd.in/eBxi_sWT, also teasing the development and preview of PathChat 2, a successor to PathChat 1 bringing new capabilities and substantially improved performance to the state-of-the-art.



need help

- privacy-preserving, edge-focused, peer-to-peer inference network:
- map [incentives](#)
- linux foundation technical advisory committee for health work:
interested? email me + read [charter](#)
- need server-side rendering, cache invalidation for hot paths in cdn,
query planning, compute - [github.com/uwdata/mosaic/](#)
[discussions/466#discussioncomment-10280239](#)
- 2p storage: [cloudflare.com/galileo](#) + r2 = \$0 egress
 - draft of benchmark: [hackmd.io/@onefact/neptune](#)
- debug vector search: [github.com/duckdb/duckdb_vss/issues/19](#) and
[approx. nearest neighbors baseline](#)
- use typing everywhere: [github.com/righttyper/righttyper](#) [github.com/beartype/beartype](#)
- understand color and character naming: [doi.org/10.1073/pnas.2109237118](#)

revenue: insurance captives

stop loss insurance products

chase, boa - examples of public goods (chase started as a utility, logo like a well; boa started after a fire!)

marketing: open source journalism

torch→tensorflow→pytorch→jax→observable.com&mosaic
→github.com/gfx-rs

- 100+ signals + crm + seo + \$10k/mo google ad spend
- local news source catalogue
- quarterly drug prices

justonerecord.org (beta)

npr story - kingsley post

