

[Transcript] The Ezra Klein Show / The 'Subprime Attention Crisis' at the Heart of the Internet

I'm Ezra Klein. This is The Ezra Klein Show.
A core focus of the show this year is going to be attention,
but not your attention, not my attention.
Not attention as a capacity of the individual,
where we give you hacks to grayscale your iPhone
or meditate in the morning or eat better food.
Our attention.
Attention seen as a collective resource, as a public good.
Attention is, in total, the depth of thought and consideration
a society can bring to bear on itself.
Its problems, its opportunities,
everything from how to find economic prosperity,
to solving climate change, to strengthening our democracy,
or for that matter, doing the reverse of any of those things,
all of it depends on our capacity to pay attention,
on the quality of the attention we pay,
and on the condition we're in when we pay attention.
But like any collective resource, attention,
it can be polluted, it can be exhausted.
And I think to a large extent it has been.
And to see how and why,
we have to get really deep into the business of attention.
So today's episode is part of that inquiry.
Kim Huang was director of Harvard, MIT,
Ethics and Governance of AI Initiative.
He was a global public policy lead for AI Google.
He's currently the general counsel at Substack.
And for our purposes, most importantly,
he's the author of this weird, fascinating book
called Subprime Attention Crisis,
which is a really good explanation
of the business model responsible
for our collective attention today.
I always worry when approaching this topic
that it is a problem of something we all think we know about.
We see the banner ads,
we know we're tracked across the internet.
We're familiar with this.
But we're really not.
The scale of it, the technology that really underpins
the pervasiveness and centrality of this business model
to almost all of the information and entertainment
we now consume,

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the way it is something completely different than it used to be.

When you get into the technical underpinnings of our whole attention economy, it's almost wondrous.

It will really make you, makes me step back and marvel.

But our attention here isn't just being bought and sold.

It's being used and changed.

And really tracking the plumbing of this economy is where we have to start to see how.

And so I asked Huang on the show to talk me through it more.

As always, my email is reclinedshowatnytimes.com.

Tim Huang, welcome to the show.

Ezra, thanks for having me on.

So the argument at the heart of the book

is that the internet as we know it

flows out of its business model.

So what is that business model?

Yeah, absolutely.

So the book Subprime Attention Crisis is really about advertising on the internet, which over the last few decades has become the sort of primary funding model for everybody, everything from the biggest platform companies to kind of like the smallest sort of publishers and websites on the internet.

And it's specifically about a very particular kind of advertising which is known as programmatic advertising, which is sort of the use of algorithms to buy and sell attention online.

And something that you talked through in the book that I've heard you talk about,

and that I think people know,

but when you hear this really remarkable,

is just how central this is.

Go through a bit of how much advertising supports the things that we use on the internet every day.

Yeah, so the fascinating thing about advertising is that it is really kind of embedded

in kind of our experience online.

The very fact that you get to use a lot of services for free on the internet is really powered by the fact that they are funded through advertising.

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So you log onto Google, you use the Google search engine. The reason it's free, of course, is advertising. And it's not just that it's kind of free online, but that these companies are like extremely dependent on this ecosystem of advertising as well. So we're talking sort of hundreds of billions of dollars worldwide flow in and out of the online programmatic advertising marketplace. And for both Google and Facebook, to take two examples, we're talking about companies that have over 80% of their revenue coming from these advertising sources. And so what's interesting about it is that it is not kind of only something that sort of like influences our present day experience of the web, but kind of continues to sort of shape like why things are designed on the internet the way they are. So one of the examples that I always give is thinking about the like button on social media. Like why do you even have a like button at all? Well, one of the reasons is that it makes engagement quote unquote with content a lot more measurable and therefore a lot better for buying and selling and serving ads. And so, you know, almost kind of like from the smallest sort of aspect of the web to like the biggest economics of the web. It's sort of all shaped by this kind of core ecosystem. This gets to an interesting question. I had reading the book though, which is which comes first, the design of the internet or what advertising needs for the internet. So I think classically the way we understand these platforms is that we have this sort of weird model that emerged online where you get attention by any means you can and you can run at a loss as long as you're getting attention for a very long time because venture capital firms and other kinds of financial investors will support you so long as they can tell, they can see measurably that you're commanding people's attention. And then eventually you have to figure out how to make what you're doing legible for advertisers, right?

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You figure out search auctions at Google and you figure out different kinds of personalization at Facebook and whatever it might be.

But it's not so much that we built the internet for advertising as it would be very clever about figuring out how to make advertising fit onto the internet we've built.

But you see it more the first way that we build the internet to make it legible to the advertisers.

So kind of make that case for me.

Sure, definitely.

And yeah, I think that these are a bunch of debates and it's of course really hard to replay the tape of history to say like, oh, if we just ran the internet again, do we end up with an internet that is largely based on advertising and I think there's some people who'd make the argument that that's the case, right?

That we're just like, history is unfolding and we're discovering that it's powered through advertising essentially.

I'm a little bit skeptical of that position because I think that there's kind of a deep path dependence in the sort of funding of online platform companies, right?

That I think that the fact that you had Google, right, which was this company that was this, frankly this kind of like lab experiment, right?

That came out of Stanford and was this huge, huge loss leader for such a long time.

VCs kept pouring more money into it and there's just lots and lots of users coming in but no real way of making money.

And then at some point they figure out the ad marketplace and obviously Google becomes one of the most valuable companies in the world.

It's almost, I think, that dream that almost kind of gives sort of momentum to this business model, right, in two respects.

I think one of them is that investors are willing to give these companies the benefit of the doubt, right?

Like if you're able to aggregate a lot of attention online, we just have this almost religious faith that like there's just some way that you got to be able to turn this into money, right?

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You will become a Google, you will become a Facebook.

And what that allows is I think is like these companies to kind of like continue going on for much longer than they would otherwise, right?

So I think one of them is like that the anchor of Google and Facebook have given sort of room for a lot more advertising sort of companies to emerge.

I think the second one too is that there's kind of like the flip side of that, right?

Which is basically that if you come to a VC and you say, I want to do a subscription business model, well, they'll say, well, I don't know.

We don't have a whole lot of examples of that like really blowing up.

So, you know, why don't you just do advertising?

And I think that also has another effect, right?

Which is that you basically don't have sort of funding going to sort of true experimentation with lots and lots and lots of different alternatives that might kind of build the internet in a really different way.

I think the only final thing I'll note here is that what I use always as kind of a marker for how kind of unplanned it was that advertising ended up becoming the business model of the web was actually to look at Google.

And what's fascinating there is that they were basically like, okay, we'll have advertising, but it'll constitute 10%, maybe 15% of our revenue.

Most of it's going to come from licensing our search algorithm, right?

Which is like, obviously not the case.

But I think it's clear to me, at least from the historical record that like there are lots of different models, business models at play.

I think the debate ends up being just like, do you think the incentives inevitably push us towards that?

But I feel it's kind of a failure of imagination in some respects.

The collapse into advertising as so often the chosen business model is it's really widespread.

So I think about basically what are the different industries that make up our informational comments, right?

Give us the information we use to talk to and to debate with each other and know about the world.

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And I've worked in a bunch of them.
Newspapers, which are heavily advertising supported,
not only but heavily, magazines heavily advertising supported.
If you think about television news, including cable news,
that is heavily advertising supported.
Radio is heavily advertising supported.
Then you go online and you have search advertising supported.
You have social media advertising supported.
Really the only major one that always comes to mind
that is not built on advertising is books.
But almost everything else we use to talk to each other
about the world in which we live
is built on people trying to sell you sugar water.
That's right. I'm arguing a little bit against myself,
but then I'll give the counterpoint.
I think one of my favorite historical examples of this
is the creation of the visual telegraph, right?
Which is basically this like communication network
that was built in France.
And the way it worked was basically like a bunch of these
effectively kind of like windmills with shutters on top
and you'd use them to basically like flag another tower
that was a number of miles away to communicate
across long distances.
And they set up this network in France
and pretty soon afterwards people were like,
you know what this would actually be great for?
It'd be great for advertising basically.
And so it is interesting and I agree with you, right?
Like I do think that there is kind of like a,
the availability of advertising is always there, right?
Because it's always attractive to offer a product for free
and then have it subsidized by a third party, right?
Like I guess I'm not trying to argue that like
that option isn't always there.
But one thing I would point out though,
and this is kind of my counterpoint is
maybe to think a little bit about what makes businesses
viable or not viable.
For me, I think it's wrong to be like,
well, the market will always kind of collapse in
on a particular business model.
Because really what we're talking about is people

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and what are people willing to pay for or not willing to pay for, right? And I do think that with books, what we have is a great example. Like the example that you brought up is that it's an example in which I think a market has been sort of trained and that it is actually like, there's a norm to say, yes, a book is a thing that I will buy, right? And even if it's basically just a text file, I'd be willing to pay X amount of money for it. And I think that just ends up being a question of like what people want and what the market will sustain and our norms around what's worthwhile or valuable online or not. And so I think if you buy that thesis, I do think that there's this kind of interesting maybe self-reinforcing cycle, right? Which is that we've lived with all of these kind of like advertising models that make content available for free. It makes it really difficult for you to convince someone to pay for content because the psychological cost of content is just zero, right? And so you almost have to shift cultural norms to get these business models to work. I just happened to believe that if there was, say VC funding, their venture funding to really push that ahead, we might very well be able to shift those norms, but I think it's a reasonable minds can differ on how stuck we are with that particular way of thinking. Well, let's put a pin in the question of VC funding because I do think there's at least some evidence that this is changing. But now let me join you in arguing against myself as beginning to this question. Sure. Which is I just gave this quick argument for continuity, but something you argue in the book and that I believe is true, is it digital advertising is a discontinuous with the

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advertising before that the fact
they have the same name actually
obscures how different what is happening
when a magazine
supports itself in print on ads
and that same magazine
moves online and supports itself on digital ads.

So talk about the change
about online advertising as a different kind of
phenomena.

I guess I can give you the
dream and the nightmare maybe is the best way
of thinking about this.

It's true. It looks quite different
from what you'd usually imagine advertising
to be. So you think about advertising,
you think about madmen.

We have people smoking
in an office and they're coming up with
creative to try to sell Pepsi.

And that was the way advertising
worked for the history of print magazines
and print newspapers and kind of older
forms of media.

What we see with programmatic advertising is something
which is a lot more automated,
a lot more data driven, a lot more
scaled than that.

And the way to think about it is Google, Facebook,
these were pioneers in the space and what they needed to do
is not to sell enough advertising
to fill a magazine, they need to sell enough
advertising to sell ads against every
possible search query that someone might have
online. And so they invented the system
programmatic advertising which
in my book and the book kind of verse to it
looks a lot more like the capital markets
that have high frequency trading.

And to give just a quick sketch of it,
the way it looks is when you go online,
you go to a website that's going to serve you an ad.
Essentially what happens is that there's a signal

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that basically is put out to a marketplace saying, hey, we've got Tim, mail 25 to 35 in the East Coast who's looking at this website, who wants to advertise to him. And essentially there's a number of algorithms that operate on behalf of advertisers that compete, you know, to basically bid to deliver the ad to me and depending on which sort of bidder wins, they upload that to my website and sort of into my eyeballs, right? And this happens billions and billions of times every single day. And so the dream of this model was that you could do advertising at much larger scale, but it also was a dream that this kind of online advertising could transcend kind of the limitations of older advertising, right? So, you know, it's very data driven, right? You know exactly who's looking, who can click on it, you know, it's scalable, you can get a message out to lots and lots and lots of different people. So there's sort of a dream that you'd finally kind of be able to create like sort of advertising as a science, right? Like that we could measure, quantify and deliver ads in a way that would truly kind of finally get rid of the sort of like kind of touchy-feely aspects of the industry. And that's the dream and you know, I ultimately argue that that dream didn't end up being true, but it was something that kind of motivated this industry. And I think frankly, it's been responsible for a lot of ad dollars moving out of old media to the web, right? Because of this promise of measurability and scalability and sort of data. And one of the points we're making is that it isn't what is different about online advertising is not just the way in which it is technologically differently structured than say a newspaper ad,

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but that the framing is financialized in a way that advertising wasn't before that. So can you talk a bit about that, the financialization and what is being financialized? What is being commodified and chopped up into into little pieces to be sold on marketplaces exactly?

Yeah, absolutely. So

I think the good frame to sort of think about this is in the context of what it means to set up an advertising marketplace of this scale, right? So you know, you imagine like you're running like your local paper, right? In the 1950s.

You really know

the audience that's going to be likely reading your paper and the advertiser is

kind of putting ads to like reach that handful of people. And you know, in some ways like attention is very heterogeneous, right? Because like the media markets are really small. And like in some ways like the kind of publisher like knows the reader maybe on like even a person to person level. Like I know Jim, he comes into the office and he complains about this all the time.

And you know, programmatic advertising and contrast is like very, very big, very, very hands arms length very, very anonymous.

And you know, effectively what has been done, what I think of as a form of financialization is to kind of like commodify and spread out and like kind of render all sorts of attention very much the same, right? So you kind of go and you say, well, I have a couple of demographics I'm trying to reach, but like I don't really care where they come from or where they are just serve these ads out to the internet. And so there's an attempt to kind of like turn it into

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a tradeable commodity, right? That like, oh well this blog versus that blog, you know, they may differ on a couple characteristics, right? But so long as I can reach a person of a certain characteristic, I don't really care what channel that advertising is flowing through or how it gets done. And this actually accounts for what has led to actually some interesting litigation against Google, you know, these systems that sort of act on behalf algorithmically of the ad buyer. And so I think that's kind of a little bit of what I think about as sort of like financialization is that there's been an effort to kind of like turn this into something that's a lot more tradeable and that you can really, really kind of do at scale. It's like the formation of a market at scale is kind of how I think about the financialization of this ecosystem. So attention for me is really the keyword. It's like why we're having this whole conversation. I think of attention as the most important, often like worst theorized least explored thing in life. It's everything and then it's very hard to get your hands around what exactly it is. But you have a lovely line, rewrite. The amorphous shapeless concept of attention has been transformed into discreet comparable pieces that can be captured, priced and sold. Buyers and sellers can quickly evaluate opportunities and transact in attention at massive scale without individually evaluating each opportunity. So there's this point here that our attention, like much in the way that other kinds of bonds and assets are, is somehow being regularized, packaged together and sold. How? When you say that buyers and sellers

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can transact in attention, where do they do that? What do these marketplaces look like? So there's two elements to this. So I think one of them is what are you buying and selling exactly? And it's actually fascinating because there's a bunch of standards that have been written in the ad tech industry to say, okay, so what is a page view? What is time on site anyways? What is attention? I think the question that we're really ultimately trying to answer, it's written in kind of quite terse speech frequently, but I think it's in some ways kind of like an absurd exercise. How do we turn this thing attention, which is just me looking at something into something that can be bought or sold? And typically what that ends up looking like is measuring it based on your activity or your kind of engagement that you have with, say, a website or an app. One common definition is, okay, you have held the ad in the window of your browser for at least a second before moving on. And that's how we define the proxy for attention. That's really what a buyer is buying when they buy your attention. And then the second question, a bit of your question was, okay, so then how is this kind of bought and sold? And this goes to a little bit of the kind of process I was describing a little bit earlier, which is that you have a marketplace which consists of these kind of two types of infrastructure. There's essentially a set of kind of bits of software that act on behalf of the sort of publisher. So this would be your New York Times or your Facebook or your Google or, you know, kind of places that are aggregating attention. And then you have

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a set of pieces of software that basically represent the ad buyers here, right? So your Coke and Pepsi and your agencies. And these kind of two bits of software plug into an ad exchange where essentially these kind of bids and offers are made, right? So in the description I gave a little bit earlier, it would be, hey, we've got mail 25 to 35 clicking on this website. Who wants to buy the ability to deliver an ad to him? And the exchange basically facilitates the auction by which sort of these bits of software acting on behalf of agencies and Pepsi and Coke go and compete to basically deliver those ads. And so this is by and large kind of an instantaneous process. It happens between the time at which you click to go somewhere and the time at which the page actually loads on the other side. And that's kind of what it looks like, right? And so this is all done really in an automated way. We're talking about global servers talking to one another rather than anyone having to pick up the phone or call anyone to kind of facilitate the delivery of ads. I mean, that's truly amazing. Put aside however you might feel about advertising or attention or anything else. Sure, yeah, of course, yeah, yeah. That this is all happening. There's an auction for your attention which serves you up something in a personalized way and the time it takes you to load a website on a broadband connection is nuts. It's wild. Yeah, I agree. I mean, I think it is maybe at the risk of overstating it. I think one of the premier engineering achievements of the 20th century, like, you know, in some ways the reason why Google succeeded, right? There were other people

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playing around with these types of marketplaces when they were coming up. They succeeded because they were able to do very high performance infrastructure running at really, really high speeds.

That was the secret to their success and getting that to work is, yeah, an enormous challenge. I think it's like just wild that it works like that. Wait, can I hold you on that for a minute?

Because this is, I think, a pretty unknown story for most people about Google. I think you say what did Google do? People say, oh my god, they figured out search.

And that's half of the story of what Google did. That's right.

But they also figured out the business model of online advertising to a very large degree.

So what did Google do to make their business work? What is the great Google business innovation? That's right.

So the complexity,

you know, put yourself in the shoes of these kind of like two youngsters from Stanford with this company with Search Engine.

You have lots and lots of people using this thing called Search to find things on this wild new thing called the Internet, right?

And this is all well and good. You're very excited that you have a bunch of users, but you're just burning cash on a month-to-month basis,

just paying for the service to keep this thing running. And the engineering challenge of

delivering advertising here is to basically say, okay, someone could come to our

website and search for literally anything. How do we make sure

that we can deliver an ad that's relevant to that search query

at the time at which they kind of like do that search query? And so

like the engineering that needs to take place in order for this to happen is that you basically

set up a marketplace on a keyword

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by keyword basis, a kind of product called AdWords. And this was kind of the system that they set up was essentially an auction infrastructure. So what they would say is, okay, well, if you're a plumber, you can advertise against the plumber keyword. And other plumbers who also want to advertise against that keyword can bid against you. And an auction will be sort of run to deliver that ad. And part of their innovation there was not just kind of like setting up that marketplace, but famously one of their kind of key things that they sort of figured out was that they also wanted to kind of rate the person who won the ad based on the quality of the ad. And that was built on a number of different features about the kind of ad you'd submit to the system. And so kind of what they were trying to do in this early phase was kind of balance the scalability of advertising, but also to ensure that advertising didn't become sort of terrible, that it wasn't low quality ads that you didn't want to see. And like I think in nailing that and getting a marketplace to really get up and running, that in some ways is kind of their true sort of business innovation and the thing that created sort of this waterfall of money that's kind of supported the company to this day. So now I want to go back to this question of what kind of internet the ad business has created because whether or not everything begins with ads, it does at least in the case of almost every major online platform with the exception of Wikipedia and then a couple of the subscription based streamers like Netflix. It all becomes ads. So once you have an ad business, once you're there

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what are you incentivized to do?
And then kind of a very long legacy. I think it's a metanarrative of the last few decades of the web. Famously, Larry and Sergey have this paper where they first describe kind of the architecture of their search algorithm, so page rank. And one of my favorite bits is they have an appendix where they go out of their way to say let's consider whether or not a search engine should ever adopt advertising. And they conclude much to I think the chagrin of their future lawyers that would be representing for various antitrust proceedings and otherwise that essentially that no search engine in their right mind should adopt advertising because once you have a third party that is kind of paying to access eyeballs in your search engine, you have lots and lots of incentives to kind of shape your experience to cater to the people who are really paying your bills. You know, I think this is part of the sort of concern about online advertising is to say, okay, well, in that case, you really want to be able to provide a lot of data about your users to these advertisers. That's one thing that you might want to do. The other thing is that you might want to make sure that the ads are kind of indistinguishable from sort of legitimate search results that the search engine is showing up, right? And so one thing that people have pointed out is like it's harder and harder to kind of tell what's an ad and what's not an ad. And those types of incentives have always been sort of at the heart of the web, right? That like, no, no, we can really balance these incentives. And I think some people and I would count myself in this category would say, well, no,

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even the kind of strongest company becomes sort of victim to these incentives over time and that they have sort of these profit incentives to structure the web in a way that are ultimately kind of adverse to their users. I think there's a view out there that I've conflicted feelings about, which is that the obsession with engagement is a byproduct of the advertising-based business model. That if you're not based on advertising, if you're subscription or something else, you don't really care how long people are on your site just that they're paying for it. On the other hand, you'll hear the head of Netflix say, are big competitors sleep and Netflix has autoplay and they're obsessed with how long you use Netflix for a month. So do you buy the narrative that the attention-hungry outrage-oriented or often outrage-oriented engagement-based nature of most major online platforms now is a factor of the ad buying process? I'd say no. And I think this is one of the reasons why the book kind of pissed off like ad optimists as well as sort of ad critics. I don't really believe that view and I think the view as at least as I'd frame it is basically that like the internet is kind of like to blame for a lot of the content ills that we see on the internet. But I don't think it's so certain, right? Because I think the incentives for a creator, right, like I'm going to use that very broadly, everything from your user to your sort of professional YouTube influencer,

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I think is interested in generating an audience online, whether or not the person pays for you by subscription or you release that content for free or if you get ad dollars, right? I think that in all those cases there's a desire to grab attention and I think that introduces bad incentives no matter what the business model is. Now I do think that there's kind of two subtleties that I point out there. I think one of them is that I think there is content that might not otherwise exist unless there was sort of the additional kind of impetus of advertising, right? And I'm thinking here of kind of like the sort of really interesting ecosystem around fake news websites, right? It's like, well, maybe we can really kind of like gin up very profitable websites very quickly by generating a certain type of content and it's kind of like, well, would they be willing to go to those extremes in natural terms if their only incentive was to aggregate an audience? That's one view and I think there's kind of some cross bleed there. I think there's a lot of gray area. I think the second thing which I would maybe kind of pivot to is to kind of think a little bit more about like the influence of things like content recommendation, right? On shaping the types of content that people produce. I think in the default, in all cases, people want audience, but I think when there's the additional intent of to say, oh, well if you publish this type of content, you'll get distributed to everybody on our platform. I think in some ways that's almost even a stronger motivator than sort of simply kind of like ads, right? Being the driver. And so I think obviously it's a complicated question, but I think it's very wrong to believe

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that at the core of this
ads are to blame for
the outrage culture, if you will,
of online discourse.
I want to pick up on one of those subtleties.
Something that ads permit
is financing
mechanisms that are built very much on scale.
So you can have
the example of the fake news websites is really good.
If a lot of people are coming to your website
but people don't really know it or like it,
it just, for whatever reason, is getting
a lot of drive-by traffic.
You can make some money off of that under ads.
Subscription, you actually need to connect people
to the site. Now you can do that in good or bad
ways. A lot of things that do very well in subscription
are very bad things because people are
subscribing because they believe
or want to support something very bad.
So I'm not a idealist
about subscription either.
But if you take, say, what's happened on
Substack and what they've proven out,
one thing that subscription really allows
is you can have 5,000, 10,000, 15,000
people. And if they're only
to pay 20, 30,
50, 80 bucks a year for what you're doing,
that's actually quite a bit of money. Whereas
10,000 or 20,000
people for ads is like
nothing at all unless you have
intense industry-specific advertising
for a decision-maker class.
And so there is something
about what is permitted in the two. I do think
that the internet moved way more towards
scale-based business models because
of advertising
when a lot of what is best is often
a little bit more niche, but that tends to thrive

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better in a subscription model.

I never really thought about it like that, but I think it's a great way of taking it, which is I think we can think a little bit about the fact that the ad market was designed to be as frictionless as possible, right?

Like that the old generation of advertising was bad because, yeah, you had to call the madmen and get your ad produced and it took a really long time to sign an engagement letter with them and it just complicated.

And the effort to commodify, to financialize attention has been to make it as frictionless as possible, right?

Like you have a website on the internet, you can just plug into this ecosystem and start making money.

You have ad dollars you want to spend, you just put your coin in the slot and you go.

And, yeah, I think that's right.

I think we've landed on sort of like metrics and an infrastructure, which I think might reward kind of like content on a page-by-page basis maybe is kind of a way to think about it, right? Like that there's actually something about the business model that suggests like the ordering or the structuring of content and information online.

Now, like you say, I hesitate to be like, oh, and that means that the content is more shallow on the internet or oh, isn't it the case that like it's just intellectually less interesting? I think that brings a lot of baggage to it, but I think that if you're just purely talking about like how we experience content online, do we think that the experience of it as just like a single page that you hit and then you go away? I think the idea of that, I think, is a lot more possible because of the ad ecosystem. And so, yeah, it is sort of interesting to think about

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like almost like away from kind of a values
laid in judgment way of thinking about it, almost like
what's the collection of texts
that you encounter online and how is it connected
to one another is very much kind of like shaped
by ads. I think it's, yeah,
a super interesting way of thinking about it.
My name is Abdi Latif-Dahir. I'm the
East Africa Correspondent at the New York Times.
Imagine
a 100-year-old
fig tree in downtown Nairobi, Kenya
standing in the path
of a major expressway that is
about to be built, funded by China.
Fig trees are
very important for many
Kenyans and the young people are trying to defend
the environment. There's
an outcry. People rally to divert
the highway rather than chop down the tree.
There's a confluence
of so many things here.
New York Times subscribers
keep our journalists reporting from
across the map to help you
understand the issues shaping our world.
If you would like to subscribe,
you can do that at nytimes.com
Tell me about the central metaphor of the book.
The subprime attention crisis.
What is that?
I mentioned a little bit earlier
that I can tell you about the dream
and the nightmare.
The dream
has been
the laissez-faire vision
of online ads.
These ad exchanges
would connect ad buyers and ad sellers
and we would have
a transparent marketplace where finally,

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we'd be able to overcome
what's known as Wanamaker's law.
Wanamaker's law is
50% of the money I spend on advertising
is wasted. I just don't know which.
The idea is with data,
with targeting, with all this machinery
we've built, finally
we can get this thing to work.
This is something you still hear from ad boosters
which are people in the industry that say
no, we've cracked this.
We can put in \$1 here,
get \$1.25 out, and by and large
the system works.
We've really cracked it.
One of the things I point out in the book
is that this marketplace may be
a lot less functional
than it might initially appear
because it relies on a number of assumptions
that don't turn out to be
ultimately true.
What I argue is that we've got
implicit in the title of the book
Subprime Attention Crisis is kind of
bubble in the making.
We have a market that people believe
is extremely, extremely valuable
and only getting more valuable
is dysfunctional with time
and that the kind of central promise
of this market, which is
I can reach a consumer and get them
to buy my product, is not really
ultimately playing out.
I can kind of sketch out just a few arguments
and I'm sure we want to go into them.
Yeah, make the case for me.
This is not what it appears to be.
This is not worth what people think it's worth.
Maybe a couple of quick arguments
I'll make on this front.

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The way I kind of think about it is hyper-targeted mind control laser that you fire from space to this consumer. I can get to Tim to change his behavior and as I said before, that relies on a couple of different assumptions about things working really well in the ad ecosystem. So the first one is that you can reach me or you can reach a real human at all. That is to say when I deliver an ad on this marketplace that it actually goes to someone who is a human and there's these really interesting kind of things that have been done. So Forrester, the research group did this paper that kind of suggested that 56% of display advertising, so the kind of ads that you see on places like Facebook may actually never see a real person. It's kind of like lost to fraud and the way the kind of gimmick works is basically that these are ads that are basically being delivered to a fraudster that actually has a bot that's loading a website or has what's known as a click farm where you pay a bunch of people to click on ads. And the scale of that's huge. The really kind of ambitious estimate is one in out of every \$3 is lost to fraud online. So, okay, well, maybe you take a look at that and you say, okay, Tim, like lots of markets have fraud. Let's assume that you actually reach a real person. And then I'd say, actually, that's also another assumption. The assumption that you actually reach a person and you have relevant data about that person. So I've been using the mail 25 to 35 through the episode. There's some studies that suggest that essentially like 41%

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of sort of ad campaigns
don't actually reach the right person
because the ad data is all inaccurate.
So you think you're reaching mail 25 to 35.
Turns out it's like female
75 to 95 that's living somewhere
completely different from where you thought.
And then I think there's another kind of layer of arguments
which is to say, okay, well, Tim, like we're going to
reach a real person. We're going to have accurate data
about them. Does this actually work?
And again, another number
of really funny kind of shocking stats, right?
So Google itself did a study a number of years ago
that suggested that even if the ad is delivered
56% of ads
are just never seen, right? They're like below the
fold. They're in some weird corner of the site.
You're just not looking at it because you're reading the article.
And so, you know, I think the way this kind
of goes is kind of ultimately you're like kind
of grinding, grinding, grinding, grinding down and
you're like, are these ads actually even reaching
people? Is this as effective as we think it is?
And I think in the very least, right, even
though we can come up with examples of ads
working, the question is whether or not that's
the median case, right? Is that that's by and large
happening in the ad markets? Or is it largely
kind of money that's being kind of like wasted in the
sort of weird system of
fraud and lack of attention and
inaccurate data and all these sorts of things. And so
the sort of vision of this kind of mind control
laser from space is a kind of vision of perfection
that doesn't actually exist once you actually get into
the guts. And so what if it
doesn't work? Why should I care
if this ad bubble, if it is a bubble
pops? Yeah, I
agree. I think like the reason
we should care, right, is not
so much that we're worried about Mark Zuckerberg

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having a couple less billion dollars, right? Like I think the reason we should care is that this ecosystem funds almost everything that we know about the web. It subsidizes the fact that we can access a lot of services for free online. It funds journalism and media. Like if you think that's important, that's like a huge reason to care. One of the things that I think is another weird angle on it just to throw it out there is a lot of these companies that have become so rich off of the ecosystem are simultaneously subsidizing lots and lots of other things outside their industry, right? So you think about the entire kind of wave of advancements in AI. Those are being done by companies that can only subsidize those at a huge, huge loss because they make money through advertising, right? So there's also like this kind of relationship between like the health of this ecosystem and the kind of advancement in science and technology. So I think for all those reasons, right, like I think we should care more about this because it touches so many parts of our lives. And I think if it is as shaky and as messed up as there's a lot of evidence to suggest that it is, you know, we might want to think about like the stability of that market, right? And like, you know, the bigger question, right? Which is what do we think we want to replace all this? One thing that was interesting for me and challenging for me about your book is that it takes this reverse view of the way I normally think about this market, which is that what I care about is the quality of the attention not what is happening to the advertising. And you're making this point that, well, if it turns out the advertising isn't working, then a lot of the

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economic underpinning
of the web all of a sudden blows up.
But let me push on this a little bit
because I've covered financial crises
and in particular cover the subprime
mortgage crisis. And so
I spent a lot of time thinking about this metaphor.
And
one thing that occurred to me about it, there's
an old Keynesian insight
about financial crises, which is that what
is weird about them
and the damage they inflict
is it nothing has happened to the factories,
nothing has gone wrong with the people,
nothing has been lost
on our knowledge of how to do work, that
the economy has not become any
less productive at its potential.
There is just this weird financial
dynamic that makes it less productive in
fact, because people, you know,
lose their money and stop investing and so on.
And one thing that struck
me is that that is
a disanalogy here
because I think the thing that I worry about most,
not with whether the ads work or not
because you can imagine this happening, maybe
even happening worse in a situation where all
the ads work perfectly, but
is that if you think of
attention as a collective good, a public good,
a public resource, which I do think
of it as, then
if the ad
industry is getting either
too good or too pervasive or too
attention grabby or whatever it might be
or what it's supporting
is not good information,
then it's degrading the collective quality
of the attention. Like unlike in this

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prime mortgage crisis where all the houses work basically fine, right, you could inhabit them.

I worry that our collective attention is being degraded by the way the web has evolved and every individual player has

an individual incentive to grab more and more attention. It's highly competitive.

They're all competing with each other for our attention. And so you get this sort of tragedy, the comments dynamic where everybody is basically exhausting our attention, making us irritable and angry at each other and unable to focus.

And it's not really in anybody's interest to figure out how to collectively manage the attention to the comments better.

I'm curious how you respond to that.

Yeah, I think that's right and I think luckily I don't think we're too far apart Ezra in some ways. The stat

that kind of really sticks out to me when you say that is this kind of comparison I do in the book between the first first banner advertisement that ended up on the web as this AT&T campaign that was running on, I think, Wired.com's website and the click-through rates there in 1994 were 44%

which is wild. It's almost from like a science fiction universe because I think if you're familiar with the stats that we have today from banner advertising it's more like 0.1%, right, like you're thrilled if you get anywhere near 1% click-through.

Anyways, I come to mention that just because I think it's like almost a proxy for what you're talking about, right, which is sort of like attention as a common good and whether or not the incentives of this market are

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essentially driving disattention, right, that like basically your content feeds, your information feeds are just filling with so much garbage that even the good stuff can't get through and the end effect is that people just pay attention less or they pay attention in a much more shallow way than they used to and that ultimately is a kind of problem, I guess implicit what you're saying is kind of a problem from like a societal standpoint, almost from like a democracy standpoint. I think it's also kind of like an interesting way of sort of using the subprime metaphor again, right, because what is the core asset that we're buying? We're buying these kind of like click-throughs, we're buying these engagements, we're buying these moments that you look at online, but the core of it, which is how much are people actually paying attention to the ad is declining, declining, declining and I think it's a little bit like the subprime mortgage crisis in the sense that you have generalized debt obligations where people are like, we're going to just keep buying the same mortgages as we've always done, but underlying that the asset's just getting worse and worse and worse and worse until the whole thing kind of busts and I think that's similar here, right, which is the market's still behaving as if it's buying attention circa 1994, but the kind of collective incentives of the market to take kind of a Keynesian approach has resulted in a situation where like the underlying kind of societal dynamics of this if you will are not really supporting the kind of attention that was bought and sold back in the day and I think that really is kind of quite parallel to the crisis. The weird effect of that if you buy what I'm saying though is that when we looked

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at ads in the early 90s, they really did work better, which is kind of the funny thing, like there maybe been a period where actually ads did work better, but essentially the core underlying asset, which is attention, has become so degraded with time that like this channel is becoming useless and maybe this is kind of a way of thinking about advertising, which is advertising is more a function of novelty than it is a function of anything else and so that the internet is kind of just going through the same thing that all other media channels have had, which is that it fills with terrible advertising and then people are attracted to the sort of high value attention channel and they move on and maybe that's happening with the internet as a whole. I think this is a place where in a weird way advertising and basically everybody else on the internet the incentives are aligned but nobody seems to know what to do with it, which is I'm not very convinced by the idea that advertisers are going to wake up one day and decide their ads aren't working anymore because I'm more of the belief, as you mentioned that law earlier, that they know a lot of them don't work, but they also don't know which ones do work and everybody is trying to be the place where it really works and so that can just roll on for a very long time. But the danger to ads is ad blockers. We see a pretty significantly growing proportion of the online user base using ad blocking technology and that can't get away from everything but it actually can block quite a bit. You see Apple dealt a pretty significant blow to Facebook

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now met as business by just creating
this little ask app not to track
just knocking app tracking
which is
part of the advertising machinery
from iOS
or at least making it easier to block app tracking
within iOS
but the more this happens
the more you're seeing
these symptoms
of on the one hand
really significant user discontent
people don't like the way the modern internet feels
they don't like the ads on it
to some degree they just don't even like what they're doing on it
I always think it's a much bigger vulnerability
for Twitter than people give it credit for
that so many of its power users have this
hellscape attitude towards it
it's like oh another day on the hell site
that's not a great way
for your loyal user base to feel about you
I think it's fine to say that's a bad user experience
yeah so something is going wrong
there that I mean even in Elon Musk's
letter to advertisers he talked about
Twitter potential
Twitter's potential is a hellscape
there's something wrong there
that if there becomes a technological
or competitive answer to that
something else that does something similar for you
but doesn't make you feel like that
you can see mass migration and so one of the things
that feels to me much more rickety
internet than people realize is
people don't like the experience of it
and they may not feel like they have
good alternatives but the more they
do be that browsers
that block ads or other kinds of services
or whatever the more they might end up

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you know getting into some tipping
point dynamic or once a network
effects of things begin to fade
they everybody begins to leave and mass
so
a lot of things to respond to there
I think that's right that you know
you're almost kind of like articulating
an alternative path
right to how this whole
ad thing might come apart
and it isn't the kind of sort of explosion
that I'm putting out in the book but more sort of
the shift in
sort of what people want
when they go online and I think that's right
right like I think ad blocking in some ways
is just the most kind of potent
or most striking kind of like proxy
for the fact that people just don't want
to pay attention to ads right and so like
there's two ways of avoiding ads or you just don't
pay attention to them or you go out of your way
to install software that actually
blocks those ads and you know the numbers
that we've seen on ad blocking is that it is
showing up right and so there's maybe
one small stat here that I'll maybe drop
which is pretty interesting there's a study
from comscore a number of years back
that kind of concluded that sort of 8%
of the population is responsible for
85% of the clicks online
the clicks on ads are all clicks
I believe it's based on ads specifically
so one of the things that's sort of interesting
about that is kind of an ad ecosystem where
you could sort of imagine this kind of
weird ecosystem that is maybe parallel
to what you're talking about which is basically that
like people get tired they drop off
they go off these platforms
we kind of like have more and more the ad

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ecosystem resting on a small group of people who are just ad maniacs
I think that's like a potentially sort of like interesting outcome from what you're talking about and I do think that you know when people say oh you know like I was catching up with a friend recently who is like it feels like the era of Twitter is over right like we're not going to see a Twitter competitor just because people just don't want that experience anymore it is sort of interesting to consider it's just like is the future of the internet really social like maybe we kind of want to escape that just because that channel has become so polluted and has so much baggage now that it's almost kind of unsustainable because it has like it's toxic to launch a social network given the sort of like norms and expectations that you know people bring that kind of product.
Twitter brings up an interesting shift here though which is another thing that could happen is a shift to more mixed business models and in particular I think we're at least seeing both in terms of actual platform and publisher behavior and in investment at least a lot more experimentation with subscription so there's of course the big streaming platforms which are mainly subscription based right you think of Netflix or Disney Plus or HBL those are not advertising based businesses maybe they'll have some now or later but that's not really what they're doing you saw YouTube roll out a subscription product I pay for that I find it very much worth it I don't have ads on YouTube anymore and it's better
Twitter Blue under Elon Musk

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they fired a bunch of people they made themselves much more toxic to advertisers and now they're trying to get people to pay a subscription fee I don't know if that will work out but it is certainly what they are attempting I've mentioned Substack which isn't a huge business exactly but I think it's had a very outsized effect on how people think of how you might fund media online and I think actually much more so at the vanguard of that is the New York Times itself which has built a huge subscription business online much bigger than I think at this point anybody else's and sort of proved at least it is possible to do but of course the FT and the Wall Street Journal and the Washington Post and others have them as well and so it seems to me there's a shift right now both in fact and zeitgeist towards subscription maybe not always to the exclusion of ads a lot of these are hybrid models but trying to hedge your bet a little bit how do you think about that yeah I'm really excited by these types of models and this maybe takes us all the way back to the early part of the episode is you know for me a lot of this comes down to when someone encounters content you know whatever that word means on the internet what do they expect to pay for it what is the expected value I guess and and expected price of that and a lot of that I think is like it's a common good in some ways right which is okay we could live in a society where everybody says oh yeah just by default I just think that this should cost money I will pay for it

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and all of these kind of attempts to sort of like scale subscription normalize subscription if you will kind of like shift the overton window around subscription are to me really really important because they in some ways kind of create the sort of like normative scaffolding that other businesses can build on right like okay well great we've got actually like an audience of people that have proven that they want to pay for things in this way online now that expectation is set maybe we can build on that right like it's not so weird for you to pull out your wallet and do that online so I'm quite interested by it and I think it's exciting because like if we can win that sort of war for hearts and minds I guess that's to be too dramatic about it like possibilities start to open up on the web right because I think ultimately this ends up being people and how they want to spend their attention and how they price their attention now I think the only kind of note that I'll strike maybe on the other side of that is that there are some people that say and then we'll live in a media utopia and that's a little bit of a straw man but I think I kind of pointed out to say that there are trades there are very real trades in imagining an internet that's all subscription right like one of them is just accessibility one thing that a lot of people have kind of interestingly sort of pointed out is like a world in which high quality media sources are moving behind the paywall is one in which low quality media sources remain out and widely available and I think that kind of dynamic is is a really sort of interesting one and I think part of it is just like

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do we want to live in kind of
like a Walt Garden Web right where it's like
okay well you can you can access this kind of like
other worlds but only if you can pay
I think overall I tend to be still in favor
of subscription and normalizing subscription
because I think it forces that hard conversation
right which is what kinds
of these services are so valuable
as to maybe being something
we want to subsidize or like kind of think about
as a form of infrastructure that you sort of have
access to as a right
we've been able to avoid those discussions because the price has been free
but the creation of subscription
also kind of like I think forces that
for any conversation in a way that I think is ultimately really helpful
So you worked at Harvard MIT's
Ethics and Governance of AI Initiative
you worked as Google's Global Public Policy
Lead on on on AI
about a couple years ago
AI is is exploding much more
into wide use now
I hear the things are happening
Yeah there's been been a lot I don't know if you've noticed
and one thing
that I would say concerns me about it
is that a lot of the major AI shops
either are part of
ad-based businesses so Google
or Alphabet I guess
has a lot of AI work going on
Meta has a lot of AI work going on
or attached them in one way or another
so open AI has a lot of investment
from Microsoft which obviously sells
a lot of software but if you think about
what they want to achieve one day with Bing
I mean there's a big ad market there too
right and what the kind of AI we're
creating is good at is just creating
endless quantities of

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personalized manipulated content
and figuring out
what people want from that content
one thing that worries me is actually a
world in which AI is used to make online advertising
much much much more effective
and personalized and omnipresent
and creepy
but maybe I'm looking at this wrong way
so I'm curious if somebody's thought a lot
about ads and thought a lot about AI
how you see AI changing
what is the fundamental business model of the internet
now that the major AI systems
are being created by the people who control
the models
yeah big question
and I think there's a couple ways at it
I think we can think a little bit about the influence
of the kind of current wave of
AI innovation which is a specific technology
called large language models or LLMs
as having an impact on
sort of the product landscape on one hand
and then on the business landscape
the ad landscape on the other
and so let me first begin I think by
kind of thinking about the product landscape
I think what's so interesting and
one of the reasons that has been reported
there's a code red at Google
that OpenAI's chat GPT has gotten so many
users we're worried because it might
ultimately replace search
and we can almost think
about like the epistemology of search
if you will the kind of experience
we've had with a sort of google
centered web over the last few decades
is one in which you punch a search query
into a box and what comes out
of it is a set of options
it says okay we've ranked these

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and you choose and you know hopefully
we've delivered something that's relevant to you
and you click on it and you go about your day
what's sort of intriguing
if you think about sort of LLMs
as kind of a thing that might eventually replace
search because it's easier
people want to just like deal with one
conversation not have to translate through
or trawl through like a bunch of different search results
is that you almost changed the epistemology
of what it means to kind of explore
the web right that
you know rather than putting you know your search query
into a box and getting 10 links
what you now have is a single voice
that synthesizes the information
and then offers an opinion
right and there's ways of crafting that
you could make your agent you know more or less
uncertain more or less ecumenical
more or less you know willing
to give you different types of points of view
or different links to different types of information
but it is a lot more kind of constrained
because it happens in the context of like a voice
versus what you could think of as search
being much more of kind of like
a computer in the old vein right like an information
terminal that you type things into to get information
and I do think that that
is potentially kind of like worrisome right
which is like we're kind of moving to
an internet that's based on kind of like monolithic
narrative right synthesized by a
machine rather than an internet
that's based on kind of searching through
lots of different options on your own right
and one is less friction one actually might
give you better results right like it's possible that
the agent gives you the result that you're looking for
even better than Google but I think part
of the question is like do people start to

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think about the internet quite differently right that like do they not necessarily really want an internet of websites what they want is an internet that's kind of translated through an assistant and I think that leads to a very very different experience of the web if we go down that route it's funny because I remember a previous iteration of this fear for Google which I think was less true obviously but there's a period when Quora the question and answer site yeah was a very big darling of Silicon Valley and I don't remember where I read the major article on this I vaguely think it was wired but that might be wrong but there was a belief among some people that Quora was going to replace Google like this would be the future of search you would ask a question or you would search questions had been asked you get this great answer from the community etc etc and that never came to pass right and Quora kind of became a search engine mill with decreasing quality over time but it does seem to me that the vision here is something like what that vision was that instead of asking Google and Google gives you a array of websites you might want to look at I mean what you can do right now with chatGPT is ask it a question and get some answer that to be honest in most cases when I ask it a direct question I get a sort of better answer than I do directly from Google now which I think has become a much degraded product but nevertheless I wouldn't exactly trust it because it constantly hallucinates information

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at me it doesn't know anything that happened
after 2021 it's a little bit of a
weird I mean it's not really
search it's a
I don't know what to describe it as but it strikes me
as odd
it's reality fan fiction at the moment
right like but that's why it seems to me
to make more sense for advertising than for search
in a way I'm sure people will
try to integrate it in search and I kind of suspect
Google is going to make Google somewhat worse by integrating
it to search very quickly out of
panic but
I don't know advertising doesn't have to have that much
relationship with the truth
and AI doesn't have to have that and a lot of
the programmatic advertising you're talking about
is terrible because they don't have budgets
to get good ads built for them
so you could really imagine them
working much more with AI and AI is much better
taking in feedback and then altering what it's
doing based on you know metrics
coming in from the customer it just feels
to me like AI these large language
models are almost perfect
to be hooked into the online advertising schema
in a way that they're not perfect for
quite anything else where you really need to trust
what's happening because like you're not just trying
to get manipulation metrics done
yeah I think that's right I think
you know kind of what I'd say
is whether or not you believe that
we finally have crossed the
want to make or threshold right like when we think
about it as kind of like an event horizon
where the ongoing dream of the internet
is I can deliver a message
that is truly persuasive
and like I can do that automatically
and I think you kind of have

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to believe that there's something that's been
so dramatic
that's been unlocked by LLMs
that the ads are going to be
that much more effective
and that I'm not so sure
on maybe I think one thing
that I will like I can see
we're going to create the ability to create like
very high quality high fidelity
ads and distribute that to everybody
there's a project I'm working on
with a friend of mine Noah
where the plan is to basically do like a
Turing test for ads right where we basically
have a bunch of people generate human based ads
have a machine generate a bunch of synthetic ads
and the idea will be to get a bunch of ad execs
to say can you actually tell the difference between the two
and then the purpose of the exercise to demonstrate that
like I think the quality is getting to the point where
yeah do you need these creative agencies
do you need like the whole
kind of like again like infrastructure
of marketing to produce ads
that have that vibe
that we spent a lot of money on it and it's brand advertising
and I think that that is something
that will definitely change in the next
few years but as always
as I've done multiple times this conversation
I think again we still have to decouple that
from the question of persuasion right we may be flooded
with these kinds of ads
but I think again like I'm not so
certain that open AI has cracked here
is like the finally
the kind of like mystical persuasion engine that the ad
industry has been looking for all these years
well to take the other side
of that and to try to beef up
opening eyes valuation just one more time
they need it I think

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I think the theory here would be that it's not that what they've cracked is that their system can write a better ad than maybe it can in many cases it's that what AI can do is enter into a tighter constant feedback loop because it's basically costless to create a new ad based on information you're pulling in from the person so I'm going around the internet I'm getting tracked and as you say a lot of what I get now is unintentionally hilarious like I go I buy a bicycle and then for two months I was like you want to buy a bicycle how do you feel about bicycles but in this case if you hooked the AIs into that tracking data and you can see what I was doing and not doing and they can generate possible ads for no cost at all and they're quite good at it what they are able to do right now I think is quite amazing and it'll be better in a year and that much better in two years and that much better in five years it's the connection of the AI's ability to learn and track you and costlessly experiment with what will work for you then within the ability to deliver that to you that makes something different I mean Jeroen Lanier has often talked about the fear of the internet turning into a skinner box and the sort of technologist and VR pioneer and I think sort of technophilosopher where it just gets so good because of AI or other things

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at taking in signals from you
and then using it to manipulate your behavior
and that we don't want that level of persuasion
to be cracked that in many ways maybe another way
of putting this is maybe the nightmare is not
the nightmare of your book
the nightmare where the agencies recognize
persuasion is collapsing
it's the reverse
that the systems actually
get really really really good at persuasion
and have the information
from you which they maybe have now
but then also the systems to iterate
and experiment based on that information
so they're not giving you returns on that that are
ridiculous that makes a
truly scarier internet
not just for selling you things but
political propaganda disinformation
and fake news and all the other things one might
worry about
Yeah I mean it's possible I mean it's a really
just kind of long bet because the root
thing of what you've just said is people having
an intimate relationship with these agents
and I don't know I should just ask you
right like are you friends with chatbqpt
right like do you feel like that you've really
built up a relationship with any of the kind of LLM
technologies or could build relationship with any
of those technologies I'd be curious
to hear what you say about that
Oh I don't think I'm really friends with chatbqpt
but what I do think is that I'm
Google knows enough about me
that if you imagine Google has its own version
of chatbqpt
and that is not having any
direct relationship to me that I know about
but it's pulling in this data that
is used in very crude way right now
by the ad marketplaces but is now

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consistently experimenting
based on these signals
and serving me up new and new and new
and new content really
micro targeted at me which
would be prohibitively expensive to do right now
when you need a person creating this
targeted experimental
content for every other individual person
that that's where you pass
some kind of threshold that the corporations
can't currently do now because
the scaling cost of that would be prohibitive
yeah it's
again it's I think it's possible I would do the
metadata right which is I think that the very
fact that we're talking about this and it is
dystopian and creepy
makes it a hard sell to the average consumer I think
right like because this is basically the creepiness
that people experience with like retargeted ads
for bikes for instance times
1000 and I guess the question is like
whether or not that level of
intimacy is also
going to come at the expense of trust
right which I think is also maybe an interesting outcome
which is I can deliver you the most micro targeted
excellent ad ever in some respects
but off the bat
you find it really weird that a system
has provided a recommendation of that level of granularity
again as always I think
the exercise will be can it become
normalized right and I think that that is
almost a picture something that sits outside of
technology
I think that's a very smart way of thinking about it
I think it's a good place to end too so always
our final question what are three books you'd recommend to
the audience
there's three books I've been reading
or have read as of late

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first one is I've been revisiting a bunch of books from the early part of the 21st century like the 2000s that were all kind of excited about the prospect of the social web so the book I've been reading there is clay shirkies here comes everybody which is kind of this early book and kind of like filled with excitement about the promise of social technology and social media and I think it's so interesting to revisit that rhetoric just because I think it teaches us a bunch of lessons about like what went right what went wrong

the second one is my friend and I Craig are working on this podcast almost impossible so I've been reading a lot about Vegas so there's a great book I'd recommend by Sally Denton called The Profiteers which is about this company Bechtel which is one of the big companies that helped build the Hoover Dam and basically became sort of like the mega infrastructure builders of the 20th century it's like completely fascinating explains much of the west explains nuclear power the company's in everything and so it's like totally fascinating story

and then the last one I'll mention is maybe a little harder to find but I'd totally recommend it for anyone who's interested in it the book called Jim Ravel's theatrical pickpocketing it's a book that came out in the 80s but is still available there's a magician by the name of Mike Cavany who sells it on his website and it's basically a very practical how-to guide to do pickpocketing as an entertainment performance and I've been looking to because there's this really fascinating history between the history of clothing and how sort of magical illusions are performed you know where your pockets are whether or not your average audience member has a vest on you know that kind of stuff

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and that's a final one that I'll mention
that is just like an incredibly fascinating
read and if you want to steal someone's watch
it's good for that as well
Tim Wong, thank you very much
Ezra, thanks for having me on the show
The Ezra Clangio is produced by Emma Fagabou
Annie Galvin, Jeff Geld, Roger Karma, and Kristen Lin
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original music by Isaac Jones
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