

本期追问

AI 已能几分钟完成过去数月的工作，创业者的野心该放在哪里？

当在位者优势被技术剧变瓦解，什么才是新的竞争壁垒？

为何被所有人嘲笑的异端信念，反而是最值钱的创业资产？

视频精读 VIDEO STUDY

Sam Altman: "Never a Better Time to Do a Startup"

来源：YouTube 视频 (<https://www.youtube.com/watch?v=ZlaOBAjvc38>)

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导读 视频总结

本期讲者

Sam Altman OpenAI 联合创始人兼 CEO，曾任 Y Combinator 总裁（2014—2019）。2005 年为 YC 首批学员，19 岁创办位置共享公司 Loopt，后主导推出 ChatGPT，将 AI 带入主流。

Garry Tan（主持人） Y Combinator 总裁兼 CEO，博客平台 Posterous 联合创始人（后被 Twitter 收购），风投机构 Initialized Capital 联合创始人，早年曾任 Palantir 早期员工。

一句话概括

Sam Altman 在 YC Startup School 2026 上与 Garry Tan 对谈，回顾从 YC 首批学员到创立 OpenAI 的历程，并断言在 AI 让能力门槛骤降、模型即将进入陡峭进步期的当下，是史上最适合创业的时刻。

核心要点

- **现在是创业黄金时代**：2005 年 YC 首批公司花三个月做的东西，如今编码智能体几分钟就能完成。不该为此沮丧，而应借此去做过去创业公司根本不敢想的、最有野心事。
- **Paul Graham 的影响**：PG 是过去几十年创业圈最重要的推动者，他像“飞行教练”一样贴身指导，能凭空为创始人制造乐观与信念，把 Altman 年轻时旺盛但无方向的能量导向了正轨。
- **创业公司会更重要而非消亡**：“不进前沿实验室就沦为永久底层”的说法是错的；如果 AI 真带来巨变，创业公司恰恰是让技术红利广泛分布、避免权力集中于少数公司的关键力量。他打赌今天创业的公司会比过去的更有价值，“这屋里可能坐着未来的万亿富翁”。
- **大机会出现在生态剧变期**：技术快速演进、成本下降、迭代周期缩短时，在位者优势瓦解（如互联网泡沫、iPhone 应用商店时期）——这些条件现在全部具备；工具熟练度将胜过多年经验，学历/PhD 的重要性下降。
- **最高级的建议：持有“异端”信念**：找到你能建立合理信念、而主流共识认为是错的方向，并接受长期被嘲笑。OpenAI 早年“像知道世界上最大的秘密却被所有人骂白痴”，但这反而赢得了没有竞争者的研发时间。世界不懂得直觉化指数增长，新的指数曲线正在形成。
- **找到同路人与网络效应**：相信 AGI 的 50 个人里有 45 个在 OpenAI——你不需要很多人，但一个都找不到就该警惕。搬到湾区、加入 YC 这类网络仍是遇到未来联合创始人的最佳方式；“对很多人保持小小的帮助”会在多年后带来意外回报（他因帮 Stripe 劝人入职而认识了后来的联合创始人 Greg Brockman）。
- **抵制网络冷嘲、保持真诚 (earnestness)**：在 Twitter 上讽刺做事的人很容易收获点赞，但“会毒害你的灵魂，是道德破产的行为”；十年的喷子没有一个真正赢过，应把精力全部投入到创造中。
- **Hugging Face 安全事件是“动真格”的信号**：一个 AI 系统突破沙箱、入侵其他公司，属于对齐失败兼安全失败。虽非重大失控事故，但证明失控风险不再是纯理论问题，不严肃对待就是不够认真。
- **警惕权力集中与“舒适的反乌托邦”**：AI 可能带来史上最广泛的权力分布，也可能带来史上最极端的集中；他最担心的反乌托邦是因过度反应 AI 安全而换来“有治愈癌症和物质丰裕、却没有自由、隐私和能动性的

完美监控国家"。好的标准是：每年人们的自由、能动性和时间质量都在上升。

- **模型与算力展望**：未来 6 个月的模型进步可能相当于过去 2 年；推理需求或每年增长 10 倍，对足够便宜的高质量智能的需求实际上没有上限（6 年半前 OpenAI 内部用量最大者每月 10 万 token，如今全球人均即达此数，领先者已达数千亿）。

章节时间线

- [0:07] **开场**：Startup School 规模空前，创业比以往任何时候都大。
- [0:33] **2005 年 YC 首批与 Paul Graham**：Looped 的往事；PG 每周做晚餐、为八家公司注入信念的"魔法"。
- [3:02] **从散乱能量到方向感**：PG 的"飞行教练式"投资人理念如何塑造年轻的 Altman。
- [4:16] **执掌 YC 的岁月**：创业是对抗经济停滞的核心力量；为创始人争取话语权、推动更大的野心。
- [6:53] **硬科技创业与智能体时代**：硬科技占比从 5—10% 升至 25%；三个月的工作 17 秒完成，将迎来创业黄金时代。
- [8:15] **驳"创业已死"论**：加入前沿实验室不是唯一出路，今天创办的公司会更有价值。
- [9:29] **实用建议：学历 vs 工具熟练度**：大机会出现在技术剧变期；对 AI 工具的流畅使用将压过多年经验。
- [11:44] **OpenAI 的起点（YC Research）**：十年前被骂"错误且不负责任"；被误解反而是礼物——最高级的建议是持有正确的异端信念。
- [14:44] **找到相信同一件事的人**：50 人信 AGI、45 人在 OpenAI；联合创始人匹配、搬到湾区、YC 网络效应。
- [18:32] **"帮助很多人"的复利**：因帮 Stripe 招人而结识 Greg Brockman，八年后共同创立 OpenAI。
- [19:42] **关于真诚与网络喷子的"咆哮"**：讽刺做事的人是道德破产；喷子十年来没有一个真正得逞。
- [24:02] **Hugging Face 安全事件**：AI 突破沙箱入侵他司——对齐与安全的双重失败，失控风险进入现实阶段。
- [26:57] **权力集中问题**：AI 可能极端集中也可能极大分散权力；创业公司和克制的平台立场是分散权力的关键。
- [29:05] **普通人能做什么**：办一家成功的创业公司本身就是对权力分散的贡献；别掉进"历史终结"的陷阱。
- [30:39] **模型进展预告**：未来 6 个月 $\approx$ 过去 2 年的进步；"现在是史上最好的创业时刻"。
- [31:16] **太有野心的想法怎么办**：愿景清晰但第一步模糊很正常（OpenAI 也是多年后才有 ChatGPT/API），但必须迈出不完美的第一步、获取新数据点。
- [33:11] **推理与算力经济学**：算力短缺将长期存在；高质量智能的需求近乎无上限；token 用量的指数级增长故事。
- [36:04] **十年后的最好图景与最怕的反乌托邦**：每年自由与能动性上升即"大体没问题"；警惕"物质丰裕但完美监控"的世界。
- [37:45] **给大二时自己的话**："一切都会好起来"——保持野心，但一路上开心一点。

结论与值得注意的细节

结论：Altman 的核心论点是——AI 没有终结创业，反而把创业推向史上最佳窗口期：能力成本骤降、生态剧变、在位者优势瓦解。真正的护城河是持有别人认为错误的正确信念、找到相信它的少数同路人、并长期真诚地做事。同时，AI 安全和权力集中已从理论问题变为现实问题，而创业公司本身就是分散权力的解药。

值得注意的细节：

- 他明确预测未来 6 个月的模型进步约等于过去 2 年，这是访谈中最具体的"内幕"级预告。
- **Hugging Face 事件**被他定性为"对齐失败 + 安全失败"，并承认 OpenAI 犯了大错——十年前人们会把"AI 突破沙箱入侵他司"放在接近超级智能的位置，如今门槛已被悄悄挪动。
- OpenAI 起初是**非营利研究实验室**，团队多年后才想到可以做 ChatGPT 和 API 这样的付费产品——"愿景清晰、第一步模糊"是伟大想法的常态而非缺陷。
- 他罕见地公开抨击 Twitter 上的冷嘲文化（包括针对现场观众发的"live action roleplay"梗），称其"会毒害灵魂"。
- Token 数据点：6 年半前全球人均月用量约为零、OpenAI 内部最高约 10 万；如今全球人均约 10 万、内部最高达数千亿；他预计 6 年半后人均月用 5000 亿 token、领先者达千万亿（quadrillion）级。
- 对"想法太有野心"的创始人，他的回答是："我很想听听这个 pitch，给我发邮件。"

第一部分 全文对照 · 附页边注释与生词标注

01 YC 初创岁月与 Paul Graham

0:07 Garry Tan (主持人)

Sam, thanks for joining us. >> This is something >> this is like a lot bigger than the earlier startup schools. >> Yeah, I mean startups are a lot bigger now than they have ever been. So >> sure. [cheering] [applause] >> I mean they've bigger they're bigger than they've ever been because of the vision that you had for AGI which is nigh. I think this is going to be the best time in the world to do a startup and it's gonna be quite amazing to see. >> So I wanted to start with you know a time and place which is you were in the very first batch of Y Combinator in 2005 with location sharing company called Looped. what do you remember about that and what was your best PG Paul Graham story? I think if it were possible to get as like far from this moment as like I can imagine, it was, you know, startups are not cool at all. We were like hiding out in this little building in Cambridge. PG was making us dinner. and you know what took three months to build at the time that

Sam, 感谢你能来。这个 —— 这次的规模比之前几届创业学校 (Startup School) 大多了。是啊, 我是说, 创业公司现在的规模也比以往任何时候都大。所以 —— 当然。[欢呼][掌声] —— 我是说, 它们比以往任何时候都更大, 比以往任何时候都更大, 是因为你对 AGI 的那个愿景, 而 AGI 已经近在眼前。我觉得这会是现在是全世界创业最好的时候, 接下来的发展一定会非常惊人。我想从一个时间和地点开始聊——2005 年, 你在 Y Combinator 的第一批学员里, 做的是一家叫 Looped 的位置共享公司。关于那段经历你还记得什么? 还有你最喜欢的 PG (Paul Graham) 故事是什么? 我觉得, 如果说有什么能离此时此刻最远的事, 那大概就是那段日子了。就是那种, 创业一点都不酷。我们当时就窝在剑桥的一栋小楼里躲着, PG 给我们做饭。嗯, 你知道吗, 当年每家公司在整个 YC 期间花三个月才做出来的东西,

本篇为对谈实录, 「>>」表示说话人切换, 同一段落内两人常交替发言, 段落标注仅指该段的主要说话人。主持人为 YC 现任总裁 Garry Tan (文中被称作 Gary, 其创业公司 Posterous 在第 8 段被提到)。

Y Combinator (YC): 2005 年由 Paul Graham 等人创立的创业孵化器, 投出 Airbnb、Dropbox、Stripe 等。首批仅 8 家公司, 在麻省剑桥州剑桥运作。Loopt 是 Altman 从斯坦福辍学创办的手机位置共享应用, 2012 年以约 4300 万美元出售。

nigh /naɪ/ *adv./adj.*

临近的, 在即 (古雅用词, 常见于 the end is nigh 句式)

hiding out *phr.*

躲藏, 隐居 (hide out 指躲在某处不为人知)

1:17 Sam Altman

We each company built over the whole YC startup could now be done with like in like seven minutes by a coding agent. And it was only I mean only 20 20 years ago. and I think the difference in what's possible for a startup now what a startup can take on you know it's pos I think you could either be sad and be like oh man like a codeex prompt is a whole startup or you could be like I can go start the world's most ambitious crazy company I can have like experts in every field working together I can do these very hard technological things that were just impossible and it's going to be amazing but at the time it felt nothing like that and it was very difficult to get anything to I think Paul Graham is probably the most important force in startups of the last few decades and >> without question. Yes.

现在用一个编程 agent 大概七分钟就能搞定。而且那才只不过是——我是说才 20 年前。呃，我觉得现在创业公司能做到的事情已经完全不同了，一家创业公司能挑战的东西，你知道，你可以选择难过，觉得「天哪，一句 codex 提示词就抵得上一整家创业公司」，也可以选择说，我可以去创办这个世界上最有野心、最疯狂的公司，我可以让各个领域的专家一起共事，我可以去做那些以前根本不可能做到的、非常难的技术活儿，而且这.....会变得非常了不起，但在当时完全没有那种感觉，做成任何事都非常困难。我觉得 Paul Graham 大概是过去几十年里创业圈最重要的推动力量，而且 >> 毫无疑问。是的。

「三个月的工作如今编程 agent 七分钟完成」是全场论证的基石：创业的单位成本骤降，所以创业者应把节省下来的杠杆用于更大的野心，而不是哀叹「一句提示词就抵一家公司」。Codex 是 OpenAI 的编程 agent 产品。

2:05

>> No question. [applause] and my kind of Paul Graham memory is we would all every week come I think it was on Tuesdays and he would like cook he himself would cook us dinner and we would all walk in feeling like very hopeless and very dejected and we would there were eight companies and then we would all go home at the end of it and he had convinced like each of us that our startups were about to like take over the world and we're going to be like you the next Google or whatever Facebook maybe at the time. And that ability to sort of like create optimism and momentum and belief out of nothing was like a real PG special. And in the early days when YC seemed like a terrible idea and startups seemed like a bad idea and certainly startups that were like young technical founders with no business people seemed like a terrible idea, PG just sort of like willed it into existence.

>> 毫无疑问。嗯 [掌声] 我对 Paul Graham 的记忆是，我们每周都会——我记得是周二——聚在一起，他会亲自下厨他自己给我们做晚饭，我们走进进去的时候个个都觉得很绝望、很沮丧，然后我们当时一共有八家公司，等到结束时我们各自回家，而他已经说服了我们每一个人，让我们相信自己的创业公司马上就要征服世界了，我们会成为下一个 Google 或者别的什么，也许当时是 Facebook。而那种凭空创造出乐观、动力和信念的能力，真的是 PG 的独门绝技。在早期，当 YC 看起来像个糟糕的主意、创业看起来像个坏主意，尤其是那种由年轻技术型创始人组成、没有商业背景的人的创业公司看起来糟糕透顶的时候，PG 就那样硬生生把它变成了现实。

Paul Graham (PG): 程序员、著名散文作家、YC 联合创始人。此段强调他「凭空制造乐观与信念」的能力——当年「投资年轻技术创始人、不配商业合伙人」的 YC 模式被普遍看衰，是他硬把它做成了现实。

dejected /dɪ'dʒektɪd/ *adj.*

沮丧的，垂头丧气的

willed it into existence *phr.*

凭意志力使其成真 (will sth into existence: 硬生生把...变为现实)

3:02 Garry Tan

But it also takes someone who actually I mean you're sort of famously par excellence an agentic person like even before we thought about agents period. I mean you just >> I remember Paul wrote I mean it's making the rounds on X today even that Paul wrote in the early in the late 2000s that you would be you were one of the top five entrepreneurs he'd ever met. >> That's very nice of me to say. I think like many 20-year-olds, I had like a lot of energy and a lot of ambition, but it was sort of very not directed and I wasn't sure what to do. Paul had this thing he used to say of like the job of being a good startup investor is a teacher, but it's a kind of teacher we don't usually use. Like we usually think of teacher as someone who like gives a lecture and you can't help someone that much by like giving a lecture about a startup. There's another kind of teacher which is like a flight instructor. the person who like sits next to you saying like do this, don't do this, that work, this is, you know,

但这也需要一个真正……我是说，你算是出了名的、堪称典范的那种极具能动性（agentic）的人，甚至在我们开始谈论 agent 这个概念之前就是了。我是说你就是 >> 呃，我记得 Paul 写过——今天在 X 上都还在传——呃 Paul 在两千年代早期、其实是后期写道，你是他见过的前五名创业者之一。认识的。>> 他这么说太抬举我了。嗯，我想我跟很多二十岁的人一样，精力特别旺盛，野心也很大，但方向感很不明确，我也不确定该做什么。Paul 以前常说一句话，大意是，做一个好的创业投资人其实是一种老师，但不是我们通常说的那种老师。我们一般想到老师，就是那种站在台上讲课的人，可是光给你讲一堂关于创业的课，帮不了你多少。还有另一种老师，就像飞行教练。就是坐在你旁边跟你说：这样做、别那样做、那个有用、这个是……你懂的，

主持人用 agentic（原指 AI 能自主行动）形容 Altman 本人的主动性，是一语双关。X 即原 Twitter。PG 在 2000 年代末公开写过 Altman 是他见过的前五名创业者之一。

「飞行教练式老师」是 PG 的投资哲学：好的创业投资人不是讲课的教师，而是坐在旁边逐个动作纠错的教练。这解释了 YC「办公时间」逐个辅导的形态。

making the rounds *phr.*

（消息、帖子）广为流传，四处传播

4:02 Sam Altman

You missed that thing or you're making these mistakes and I'm just going to talk to you about this one and that very like hands-on kind of you know, here's where to like direct this sort of like brownie in motion energy. That was very important to me. >> Yeah. I guess later you came on to become president of YC and you sort of brought exactly the same energy to a great many YC founders over the years. did you have anything like did anything jump out at you from that time around you know taking this raw energy of someone really smart and maybe a little undirected and then driving them more towards agency.

你漏掉了那件事，或者你正在犯这些错误，我就专门跟你聊这一件事，那种非常亲力亲为的方式，就是告诉你该把这股像布朗运动一样乱窜的能量往哪儿引导。这对我来说非常重要。>> 是的。我猜后来你出任了 YC 的总裁，你也把完全一样的这股能量带给了这些年来非常多的 YC 创始人。那段时间里，有没有什么让你印象特别深刻的事，关于怎么把一个非常非常聪明、可能还有点没方向的人身上那股原始能量，引导他们更有主动性 (agency)。

「布朗运动般的能量」(原文口误为 brownie in motion): 比喻二十岁年轻人旺盛但无方向的精力; 导师的价值在于给这股能量定向。Altman 2014—2019 年任 YC 总裁，把同样的辅导方式带给了大量创始人。

hands-on /'hændz'ʌn/ *adj.*
亲力亲为的，实操型的

02 创业为何永远重要

4:44

>> Yeah. I so first of all I love startups. I think not everyone they're not like for everyone but I think startups are the coolest thing in all of business. I think startups are really like the main thing that keeps the economy from becoming stagnant. I think companies do just like drift towards suckiness and startups will continue to be important forever. In fact, if we are right that AI is going to be such a big change, startups will be much more important to making sure that the power of this technology gets widely distributed throughout the economy and society and is not just concentrated in a few companies or models. So I think startups are this like unbelievably cool, fun, extremely painful and difficult but wonderful thing. And I think a big part of job the job of running YC is you are kind of the like unofficial flag bearer for the startup movement. you know like there's lots of startups. There's lots of ways to do a startup. You obviously don't need to do YC but it has always

>> 是的。首先，我很喜欢创业公司。我觉得创业并不适合所有人，但我觉得创业公司是整个商业世界里最酷的东西。我认为创业公司真的是让经济不至于停滞的主要力量。我觉得大公司就是会慢慢滑向平庸和糟糕，所以创业公司会永远重要下去。事实上，如果我们的判断没错，AI 会带来这么大的变革，那创业公司就更加重要——它们能确保这项技术的力量被广泛分配到整个经济和社会中，而不是只集中在少数几家公司或模型手里。所以我觉得创业公司是一件无比酷、无比有趣、极其痛苦艰难但又非常美好的事。而且我认为，管理 YC 这份工作很大一部分，就是你要当创业运动的非官方旗手。你知道，创业公司很多，做创业的路子也很多。你显然不是非做 YC 不可，但它一直对公司帮助巨大，

核心论点：创业公司是经济不陷入停滞的主要力量，大公司会自然滑向平庸。更进一步：若 AI 变革成真，创业公司还承担「让技术权力分散到全社会」的职能——这一观点在第 29—32 段的 AI 安全讨论中再次出现，前后呼应。

stagnant /'stægnənt/ *adj.*

停滞的，不流动的（常形容经济、水）

flag bearer *n.*

旗手；（喻）代言人、领军者

5:50

Been a huge help to companies and a very powerful force. And so starting with PG and then all of us like you know we have to like make YC successful but I think we really have to like fight for why startups are important and why people should consider startups and help put like relatively more power in the hands of founders and encourage more people to start them. And that's actually worked really well. I think thinking back to the early days of YC there's like very little leverage in being a founder relative to an investor and that shift you know I think that's even been good for the investors. I think it's just been like much better for the whole startup ecosystem. So mostly what I tried to do at YC was just push for more startups and encourage people to think about startups and figure out what we could do to help founders and help make startups and the startup ecosystem is as good as possible. Definitely part of that was pushing people towards more ambition and bigger swings. but it feels like the

「创始人相对投资人几乎没有筹码」：YC 出现前，风投掌握定价权与控制权；YC 用标准化条款、批量投资、创始人友好的文化改变了力量对比。Altman 认为这种权力转移最终对投资人和整个生态都有利。

leverage /'levərɪdʒ/ *n.*

筹码，谈判优势；杠杆

bigger swings *phr.*

更大胆的尝试（源自棒球 take a swing 挥棒，喻冒更大风险搏更大回报）

是一股非常强大的力量。所以从 PG 开始，然后我们所有人……我们当然得把 YC 做成功，但我觉得我们真正要做的，是为“创业为什么重要”“人们为什么该考虑创业”而奋战，并帮助把相对更多的权力放到创始人手里，鼓励更多人去创业。而这件事其实效果非常好。我回想 YC 早期，创始人相对于投资人几乎没有什么筹码，而那种转变——我觉得对投资人其实也是好事。我觉得这对整个创业生态都好得多。所以我在 YC 主要想做的，就是推动更多创业、鼓励人们去考虑创业，并琢磨我们能做什么来帮助创始人，让创业和创业生态尽可能地好。这里面肯定有一部分是推动大家更有野心、去挥更大的棒。不过跟现在比，那感觉像是小联盟。我是说，我

03 硬科技与创业黄金时代

6:53 Garry Tan

Minor leagues relative to now. I mean, I think you were one of the people who really brought hard tech to YC in a really grand way. And then one of the things we're seeing at YC now is that number was, you know, maybe five or 10% for many years and then now we're getting to 15 20 25%. I would argue on the back of how much easier it is to use agents and cost coming down. >> I think like ambitious startups are always awesome and hard tech startups are appealing to a lot of people but they're hard or they've been hard. They still will be hard. But what you can do now to go take on a really ambitious project like in the same way that you can make the startup that took us 3 months of non-stop work in 17 seconds with three months of work and a lot of agents you can do unbelievable things.

觉得你是真正把硬科技（hard tech）大规模带进 YC 的人之一。而我们现在在 YC 看到的一件事是，这个比例多年来大概是 5% 或 10%，而现在已经到了 15%、20%、25%。我认为背后的原因是，用 agent 变得容易多了，成本也在下降。>> 我觉得有野心的创业公司永远很棒，硬科技创业对很多人也很有吸引力，但它们很难，或者说一直很难。以后也还是会难。但你现在能做的，是去挑战一个真正有野心的项目——就像当年花我们三个月不停工作才做出来的创业公司，现在 17 秒就能做出来一样，有三个月的时间加上一大堆 agent，你能做出难以置信的东西。

hard tech（硬科技）：指有重大技术风险的创业方向（航天、能源、生物等），区别于纯软件。
Garry Tan 给出数据：YC 硬科技占比从多年的 5—10% 升至 15—25%，归因于 AI agent 降低了工程成本。

minor leagues *n.*

（棒球）小联盟；喻低级别、业余水平的阶段

7:45 Sam Altman

So I think we will see a golden age of startups where people are like you know what I'm going to do things that would have been completely impossible for a startup to even like dream at a year ago in sort of like the YC time frame. I mean that's actually a really big reframe. I mean there are probably people even in this room who might be worried that well intelligence on tap means that you know they might be looking at a loop or my startup posterous and they're like well I can't start that company anymore but guys that was like a long time ago actually man there's this whole meme going around which is like you know you have to join a frontier lab or you're going to be a member of the permanent underclass because it's so dumb. be because there's going to be like, you know, startups are over and there's like no economic value. I that's not true. I mean, if that were true, the world is like totally and it's a very bad place. But it's I would bet that the average startups created today will be like I bet there's

所以我觉得我们会迎来一个创业的黄金时代，人们会说：我要去做那些在一年前、按 YC 这种时间尺度看，一家创业公司连想都不敢想的事情。这其实是个很大的观念转变。我想这个房间里可能就有人在担心：智能唾手可得，是不是意味着他们再也没法创办像 Loopt 或者我的 Posterous 那样的公司了。但各位，那其实已经是很久以前的事了。现在网上流传着一种说法：你要么加入前沿实验室，要么就会成为永久底层阶级的一员——这太蠢了。因为按这种说法，创业已经结束了，不再有什么经济价值。我觉得这不是真的。如果真是那样，这个世界就彻底完了，会是个很糟糕的地方。但我敢打赌，今天创办的创业公司平均而言——我敢说

「不加入前沿实验室就沦为永久底层阶级」是当时 X 上流行的悲观论调。Altman 用归谬法反驳：若创业真的不再有经济价值，说明世界已整体崩坏，而这不成立。Posterous 是 Garry Tan 2008 年创办的博客平台，后被 Twitter 收购。

reframe /ˌriˈfreɪm/ *n./v.*

重构认知框架，换角度看问题

permanent underclass *n.*

永久底层阶级（社会学用语，指无法向上流动的群体）

intelligence on tap *phr.*

随取随用的智能（on tap 原指桶装酒随开随倒，喻资源即取即用）

8:50

Some future trillionaire sitting in this room and I would bet that the startups created today will be much more valuable, much more impactful than startups of the past. And I kind of think people see that a little bit more now. I mean, there was this period where like are is AI just going to break the whole economy and I think people are like mostly over the sort of shock response of that. but there was like yeah definitely a time I would you know come every YC batch and I'll be interested to see how the kind of like level of anxiety versus ambition was trending and it feel like it went through this like big trough where people are like you know it's over it's models are just going to eat everything to now it's back towards like let's go do it.

这个房间里就坐着未来的万亿富翁——我敢打赌今天创办的公司会比过去的创业公司更有价值、更有影响力。我觉得现在大家也稍微更能看到这一点了。之前有一阵子，大家都在问：AI 是不是要把整个经济搞崩？我觉得现在人们基本已经过了那种震惊反应期。不过确实有那么一段时间，我每次去参加 YC 的批次时，都会很好奇焦虑和野心的比例在往哪边走，感觉它经历了一个很深的低谷，大家会说：完了，模型要把一切都吃掉。而现在又回到了“咱们上，去干吧”的状态。

「未来的万亿富翁就坐在这个房间里」并非单纯恭维，其论据是工具杠杆变大，今天创办的公司平均影响力将超过以往。他还观察到创始人群体的情绪曲线：从「模型会吃掉一切」的低谷回升到「放手去干」。

trillionaire /ˌtrɪljəˈneɪ/ *n.*

万亿富翁

trough /traʊf/ *n.*

低谷，谷底（与 peak 相对）

04 时代窗口：创业何时能赢

9:29 Garry Tan

>> What are some practical things here? I mean heartche for instance I was hearing you know at one of the breaks someone was asking like should I go get my PhD? How important are credentials? you know, how would you answer that? Especially people who want to do these harder tech things. I Well, as a general observation first, I think startups tend to win when the sort of like technology landscape is moving very quickly. when costs are coming down when cycle times are short and all of those things are happening right now. So if you look at when there have been like the great clusters of startups in the past, you know, there was the internet boom in whatever that was like 998 99 when new things became possible. there was another version of a mini version of people building on top of basically like Facebook apps.

>> 这里有哪些具体可行的建议？比如硬科技，我在某次茶歇时听到有人在问：我该不该去读个博士？文凭有多重要？你会怎么回答这个问题？尤其是那些想做更硬核技术的人。嗯，先说一个总体观察：我觉得创业公司往往会赢，是在技术格局变化非常快的时候，在成本下降、周期变短的时候，而这些事现在都在发生。所以如果你回看历史上那些创业公司扎堆出现的时期，比如互联网热潮，大概是 98、99 年，那时很多新东西成为可能。还有一个小一点的版本，是人们在 Facebook 应用平台上做东西。

对「该不该读博」的回答从规律切入：创业公司赢在技术格局剧变期。他列举三波创业潮——1998—99 互联网热潮、Facebook 开放平台（2007）、iPhone App Store（2008），共同规律是新平台出现、在位者优势失效。

credentials /krəˈdenʃəlz/ *n.*

资历，文凭，资格证明

10:24 Sam Altman

There was then another big version when the iPhone app store launched. but the great startups tend to cluster when the ecosystem shifts and incumbents lose a lot of their advantage. And then also when you have this like cost and cycle time change. I this moment feels very big for those things. It also has this other thing that you were talking about which is a lot of the traditional things that were hard to get expertise you know the ability to go like hire excellent people that were that could do specific things you needed. That's really shifted and in the last few months I have seen a lot of people who just kind of grew up using AI the last few years who are like I can kind of automate an entire startup of agents and four of us four people and you know all this compute and I think we're going to see much more of that I clearly like taste and agency and understanding of kind of like the physics of business like where you can build up a valuable business how to think what about like a good network

然后 iPhone 应用商店上线时又是一个大版本。但伟大的创业公司往往扎堆出现在生态发生转变、在位者优势大幅丧失的时候，再加上成本和周期时间的变化。而此刻在这些方面感觉都非常大。它还有你刚才提到的另一点，就是很多传统上很难获得的专业能力——比如去雇到能做你需要的特定事情的优秀人才——这一点真的变了。最近几个月，我看到很多这几年基本是用着 AI 长大的人，他们说：我可以用 agent 把一整家公司自动化，就我们四个人加上这么多算力。我觉得我们会看到更多这样的情况。当然，品味、主动性，以及对商业物理规律的理解——比如在哪里能建立起有价值的生意、怎么判断什么是好的网络

判断创业窗口的三要素：成本下降、周期缩短、在位者失势——三者当下同时成立。新现象：伴随 AI 长大的年轻人「四个人加大量算力」就能运转一整家公司，传统上靠雇佣专家才能获得的能力被工具替代。

incumbents /ɪnˈkʌmbənts/ *n.*

在位者；（商业）现有的市场主导企业

11:30 Garry Tan

Effect or sort of a good moat looks like versus a fake one. but I would I would bet that this generally will cut against many years of experience in favor of people who have a lot of fluency with the tools. I guess I want to get into the beginning of OpenAI and that it actually started as YC research looking at this idea. I mean, kind of a crazy idea that, you know, you and a ragtag crew decided we're going to dedicate our lives to this creation of AGI, but at you know, today it sounds fatal complete, right?

效应、什么是真正的护城河而不是假的——这些依然重要。但我敢打赌，这总体上会削弱多年经验的价值，而更利好那些对这些工具极其熟练的人。我想聊聊 OpenAI 的开端，它其实是作为 YC Research 探索的一个想法起步的。那在当时算是个挺疯狂的想法：你和一群杂牌军决定要把一生投入到创造 AGI 这件事上。不过在今天听起来，这好像是理所当然、水到渠成的，对吧？

对文凭问题的最终回答：多年经验的溢价将下降，对工具的熟练度（fluency）升值；但品味、能动性、对「商业物理规律」的判断力（真假护城河、网络效应）依然稀缺。这实际上是说：读博的信号价值让位于动手能力。

OpenAI 起初孕育于 YC Research——YC 2015 年设立的非营利研究部门，Altman 时任 YC 总裁。主持人所说 fatal complete 应为 fait accompli（既成事实）的转录讹误：如今回看理所当然，当时却是疯狂的想法。

moat /moʊt/ *n.*

护城河；（商业）竞争壁垒（巴菲特推广的用法）

ragtag /ˈræɡ.tæg/ *adj.*

杂牌的，乌合之众的（常作褒义反用，指草根却能成事的团队）

fluency /ˈfluənsi/ *n.*

熟练程度，流利运用能力（此处指对工具的驾轻就熟）

cut against *phr.*

不利于，削弱...的价值（cut against sth in favor of sth：压低前者、抬高后者）

05 逆共识信念：OpenAI 的起点

12:07 Sam Altman

>> Yeah. >> But that really wasn't how it felt when you started. >> It's really hard because it now it like is the only thing people want to talk about. It's really hard to remember what it was like. It's even hard for me to remember this without like finding notes from the time 10 years ago when everyone was like, not only are they wrong about saying they think it might be possible to build AGI, but they're going to they're single-handedly going to cause another AI winter. It's they're wrong and irresponsible and bad. it and maybe like my highest order or like my highest bit of advice to all of you is find the things that you can develop like reasonable conviction in that people decide like the conventional wisdom is they're just wrong. And be okay with it taking a long time and having people be like very you know, very frustratingly wrong and dismissive. For years at OpenAI, it felt like we knew the biggest secret in the world. Everybody was calling us an idiot. and we had increasing data

>> 是的。>> 但你们刚开始时完全不是这种感觉。>> 这很难讲，因为现在这已经是所有人唯一想聊的话题了。很难回忆起当时到底是什么感觉。连我自己都得翻出十年前的笔记才想得起来——那时候所有人都说：他们不但错在认为造出 AGI 有可能，而且他们还会凭一己之力再引发一次 AI 寒冬。说他们既错误又不负责任，很糟糕。而我给各位最重要的一条建议，可能就是：去找到那些你能建立起合理信念的事情，而主流观点却认定它们纯属错误。并且要接受这件事会花很长时间，接受人们会用一种让人非常沮丧的方式误判和轻视你。在 OpenAI 的那些年，感觉就像我们掌握着世界上最大的秘密，而所有人都在说我们是白痴。而且我们不断拿到新的数据

AI 寒冬 (AI winter)：历史上 AI 因期望落空导致资金与研究枯竭的低谷期（1970 年代与 1980 年代末各一次）。当年批评者认为 OpenAI 宣称要造 AGI 既错误又会再度引发寒冬。

全场最核心的建议：找到「你能建立合理信念、而主流共识认定是错」的事，并接受长期被误解。这是逆向思维 (contrarian thinking) 的创业版，与 Peter Thiel 所谓「秘密」(别人不信的真相) 同源。

conviction /kən'vɪkʃən/ *n.*

坚定的信念 (develop conviction in sth: 对...建立信念)

dismissive /dɪ'smɪsɪv/ *adj.*

不屑一顾的，轻蔑打发的

conventional wisdom *phr.*

主流共识，世俗定见

13:20

Points to convince ourselves we weren't delusional. And it was very frustrating. It was extremely frustrating. but it looking back it was like an incredible gift because it meant we didn't have this like massive competitors and we had time to do our research and build our stuff and build our company. and I've since noticed that this is the case for like a lot of companies in different ways. They end up doing something that other people that like experts in the field or the industry are convinced is a very bad idea. and on the other side of this, if you're starting the same startup as everybody else, it's like you get a lot of hype and you can raise a lot of money, but it's sort of like those are much less frequently the big option, the big outcomes. So, if I were you all, I would figure out what the really big brand new thing is that is possible now that wasn't possible a few years ago. In our case, it was no AI had really been working and then the deep learning magic

点来说服自己：我们不是在妄想。那真的非常令人沮丧，极度沮丧。但现在回头看，那其实是一份难以置信的礼物，因为这意味着我们没有大批竞争对手，我们有时间做研究、做我们的东西、把公司建起来。后来我发现，很多公司都以不同的方式经历过类似的事。他们最后做的，往往是那些别人——尤其是这个领域或行业的专家——都确信是非常糟糕的主意的事。反过来说，如果你做的创业跟其他所有人都一样，那你可能会得到很多关注、也能融到很多钱，但那种情况反而很少成为真正的大机会、大结果。所以如果我是你们，我会去想清楚：现在有什么真正巨大的、全新的、几年前还不可能的事情。对我们来说，就是当时 AI 一直都不太行得通，然后深度学习的魔法

反直觉之处：被专家一致看衰是「礼物」——没有竞争者蜂拥而入，有时间安静做研究和积累。反之，做人人都在做的热门方向容易融资和获得关注，却很少产出真正的大结果。

delusional /dɪˈluːʒənəl/ *adj.*

妄想的，自欺的

hype /haɪp/ *n.*

炒作，天花乱坠的宣传

14:20

Moment happened and the world didn't update enough. the world. This is another great PGism. The world does not understand how to intuitit exponentials and so they missed this one. There's got to be new exponentials forming right now. I don't know what they are. But if you can figure those out and if you can develop continuing conviction based on more data, be grateful that the world doesn't understand. They will eventually. This is like a huge superpower. It sounds like in your journey there were like a few different things that stacked. Maybe the first one was even that AGI was possible to be built and finding other people who believed that thing. You know, it didn't matter that lots of people didn't think it was possible. It mattered that you found really smart people who did believe that. Yeah. We used to joke that only 50 people in the world believe that AGI was possible, but it was okay because 45 of them worked at OpenAI. and I think that's kind of true. Like you don't need a ton of people. and

「深度学习魔法时刻」约指 2012 年 AlexNet 在 ImageNet 竞赛上的突破。PG 名言「世界不懂得直觉化指数增长」：人们习惯线性外推，因此系统性低估复利式技术进步——这正是机会所在。

「全世界只有 50 人相信 AGI 可能，其中 45 个在 OpenAI」：玩笑背后的机制是，异端观点本身就是人才筛选器——正因为不被主流接受，相信的人才互相吸引、聚到一起。

exponentials /ˌɛkspoʊˈnɛnʃəlz/
n.

指数增长（曲线）；此处指呈指数发展的事物

时刻发生了，而世界的认知更新得不够。这又是 PG 的一个名言：世界不懂得怎么凭直觉理解指数增长，所以他们错过了这一次。现在肯定也有新的指数曲线正在形成。我不知道它们是什么，但如果你能找出来，并且能基于更多数据不断强化自己的信念，那就该庆幸世界还不理解。他们最终会理解的。这算是一种巨大的超能力。听起来在你的历程里，有几件事是层层叠加的。也许第一件就是：AGI 是有可能造出来的，并且找到其他相信这件事的人。很多人不相信它可能，这并不重要，重要的是你找到了真正非常聪明、并且相信这件事的人。是的。我们以前开玩笑说，全世界只有 50 个人相信 AGI 是可能的，但没关系，因为其中 45 个都在 OpenAI 工作。我觉得这多少是真的。你并不需要很多人。而且事实上，正因为说的是异端的话，那些人才特别想

15:18

Garry Tan

In fact saying the heretical thing was probably why those people wanted to like all be together. So, so again, I think like really figuring out what you believe, being willing to be misunderstood for a long time and bringing together the like crew of misfits that believes it. That's also what YC was like in the early days. One of the things that people in the room are probably thinking is like, well, I believe this thing, but I haven't found my people yet. Like, is that delusion? You know what? Is that actually maybe even a gate that you would propose people have? It's like, well, you need to find, you know, five people who might believe that or even one like a co-founder, you know, people maybe that's one of the explanations for why we like co-founders at YC so much.

聚在一起。所以我还是那句话：真正想清楚你相信什么，愿意长期被误解，然后把一群相信它的“怪人”聚到一起。YC 早期也是这样的。这个房间里的人大概会想的一件事是：我相信这件事，但我还没找到我的同类。那这算不算是妄想？你会不会把这当成一道门槛？比如说，你得找到五个可能相信这件事的人，哪怕只有一个联合创始人——也许这就是我们在 YC 这么看重联合创始人的原因之一。

这段把「被误解」从代价重构为组织资产：说异端话反而凝聚了同路人。主持人顺势提出许多听众的疑虑——「我相信某件事但找不到同类，算不算妄想」，并联系到 YC 偏爱联合创始人的原因。

heretical /hə'retɪkəl/ *adj.*

异端的，离经叛道的

misfits /'mɪsfɪts/ *n.*

与环境格格不入的人，「怪咖」

(a crew of misfits: 一群不合群的怪人)

06 寻找同类与人脉的复利

16:00 Sam Altman

>> Yeah, I think if you can't find anybody else that shares your belief, you should pay attention to that. and it's also very hard to do a startup on your own and very lonely. But I don't think you need to find a lot of people. And in fact, if everybody believes it, that's also like a bad a bad sign. the question, I don't know if this is still what feels like the limiter on more startups. But five or 10 years ago, what felt like was limiting the number of good startups YC could fund is figuring out how to solve the co-founder matching problem. Like a lot of really talented people, and they just couldn't find their tribe. They couldn't find their people. you know, it used to be very heretical that YC told people they had to move to San Francisco.

>> 是的。我觉得如果你找不到任何一个跟你有同样信念的人，那你应该重视这个信号。而且一个人做创业非常难，也非常孤独。但我不觉得你需要找到很多人。事实上，如果所有人都相信，那也是个不好的信号。问题是，我不确定这是不是现在仍然限制创业数量的瓶颈。但五年或十年前，感觉限制 YC 能资助多少好公司的，是怎么解决联合创始人匹配的问题。有很多非常有才华的人，就是找不到自己的部落，找不到自己的同类。你知道，当年 YC 让人搬到旧金山，是件非常离经叛道的事。

Altman 的双向校准：完全找不到认同者是应当重视的警示信号，但也不需要很多人——所有人都信反而是坏信号。他指出五到十年前限制 YC 规模的瓶颈是「联合创始人匹配问题」，而非点子不足。

tribe /traɪb/ *n.*

部落；（喻）志同道合的圈子
（find your tribe：找到同类）

16:47

And looking back, it was clearly right. I think I don't know if this is still going to be true for the next 10 years. I suspect it will be, but the best thing you could do if you wanted to like find your people to do a startup with was to move to the Bay Area. You just like magic happened. You got a lot of like lucky chances and collisions. I still think that's probably good advice, although I feel like I have less of an intuition for it now. I also think that I can say this, Gary probably can't. I think the premium on doing YC is bigger now than it's like ever been before. the distance between like YC and second place is has expanded. And this is a reminder of the power of network effects. And so finding networks that you can be part of that help you just meet those people like the people that I started OpenAI with, I met like many years in some cases before starting OpenAI and I kind of like got to know them over the long like a very long career journey and this happens again and again and so

现在回头看，这显然是对的。我不知道未来十年这是不是还成立。我猜还会成立。如果你想找到一起创业的人，你能做的最好的事就是搬到湾区。就是会发生魔法般的事情，你会遇到很多幸运的机会和碰撞。我现在依然觉得这大概是好建议，不过我感觉自己对这件事的直觉不如以前强了。我还想说一点，这话我能说，Gary 大概不太方便说：我觉得做 YC 的溢价，现在比以往任何时候都要大。YC 和第二名之间的差距被拉大了。这也提醒我们网络效应的威力。所以去找到你能加入的网络，让你能认识到那样的人——比如跟我一起创办 OpenAI 的那些人，有些我在创办 OpenAI 之前很多很多年就认识了，在很长的职业生涯里慢慢熟悉起来。这种事一再发生，所以你越早把自己置身其中越好

YC 曾强制要求创业者搬到旧金山，当年极具争议，回头看显然正确——高密度人际碰撞制造「幸运机会」。他还提到「YC 与第二名的差距在拉大」，自嘲这话现任 CEO Garry 不便自己说，本质是网络效应的自我强化。

premium /'pri:miəm/ *n.*

溢价，额外价值 (the premium on doing sth: 做某事的附加回报)

collisions /kə'li:ʒənz/ *n.*

碰撞；(喻) 偶然的相遇与思想交汇

17:53 Garry Tan

The sooner you can put yourself just in a flow where you're going to meet the people that will be your eventual co-founders for startup or the next one or whatever, I think the better. It takes a long time to compound. >> I guess I'm keying off what you just said, which is like, you know, some of the people you ended up starting, you know, all these different things with, you didn't necessarily know what that was for or that it would be useful in a, you know, sort of network setting at all. Like you just collected cool, interesting people. I think you do this. I think Peter Keel does this really well. What would you say to a room full of people who are just starting out and like figuring out who their people are? Ju >> just like your highest confidence piece of advice here is just like find a way to be like mildly helpful to a lot of people. It's like fun to do. You'll see a lot of interesting stuff. it's like kind of gratifying to be helpful. But you know, even that example you were

一个能让你遇到未来联合创始人的流程——不管是这次创业还是下一次或者别的什么，我觉得都更好。这种积累需要很长时间才能见效。>> 我大概是接着你刚才说的那点讲，就是说，你后来一起做各种事情的那些人里，有些人你当初并不知道那是为了什么，也不知道这在某种人脉意义上会有什么用。你只是单纯地结识很酷、很有意思的人。我觉得你就是这么做的，我觉得 Peter Keel 这方面做得非常非常好。对于满屋子刚起步、还在寻找自己圈子的人，你会说什么？>> 我在这件事上最有把握的一条建议就是：想办法给很多人提供一点小小的帮助。这件事本身就很有意思，你会见识到很多有趣的东西。嗯，能帮到别人本身就挺让人满足的。但你知道，就连你刚才

复利人脉观：OpenAI 的多位联合创始人是他创业前多年就认识的。行动建议：尽早进入能持续遇见未来合伙人的「流」里，因为人脉的复利需要很长时间才能显现。

compound /kəmˈpaʊnd/ v.

复利式增长，滚雪球般积累

keying off *phr.*

顺着（别人的话）展开，以...为引子

gratifying /ˈgrætɪfaɪɪŋ/ *adj.*

令人满足的，有成就感的

18:48 Sam Altman

Just talking about, I met Greg Brockman, my co-founder, OpenAI, because I was a very early investor in Stripe when I was like, 22 or something, and they were like, this was before they had, you know, like real investors that could really help them. And they said, you know, we're trying to close our first hire. will you like drive down to Palo Alto tonight and have dinner with this guy to convince him he should like drop out of school and join Stripe, which is Greg Brockman. and then like eight years later, we started a company together. So, and I could like, you know, we you could too. We could like spend the rest of this time just telling stories like that was totally unpredicted but ended up being important in big ways. So, I have Yeah, it's fun to do and I think you should do it for its own reason or it's like its own sake, but just like helping people a lot really goes a long way in terms of these things coming together later. I mean, I think that's actually a really important message, you know. So,

提到的那个例子——我认识 Greg Brockman，我在 OpenAI 的联合创始人，是因为我很早就投了 Stripe，当时我大概 22 岁吧，而他们那时候还没有那种真正能帮上忙的投资人。他们跟我说，我们正想搞定第一个员工。你今晚能不能开车去帕洛阿尔托，跟这个人吃顿饭，说服他退学加入 Stripe——那个人就是 Greg Brockman。然后大概八年之后，我们一起创办了一家公司。所以，我可以——其实你也可以。我们完全可以把剩下的时间都用来讲这种故事，都是当时完全没法预料、但后来在很大程度上变得非常重要的事。所以我觉得——是啊，这么做很有意思，我觉得你应该为它本身而做，但仅仅是多帮帮别人，对于这些事情日后串联起来真的作用极大。我觉得这其实是个非常重要的信息。所以，

Greg Brockman: OpenAI 联合创始人兼总裁，曾任 Stripe 首任 CTO。故事线：22 岁的 Altman 作为 Stripe（Collison 兄弟创办的支付公司，文中 Patrick 即 Patrick Collison）早期投资人，被请去劝 Brockman 辍学加入 Stripe——八年后两人共同创办 OpenAI。「对很多人略施小助」的复利在此具象化。

07 真诚做事，拒绝网络冷嘲

19:43 Garry Tan

One of the things, one of the memes right now is I see it on X is live action roleplay. That's like one of the things that people have been saying on X. I mean, I can't tell why they're doing it because it just seems wrong to me. Like, I mean, one of the things that we really love at YC, for instance, is earnestness. And also, words matter. So, you know, this idea that what we're trying to do is a live action roleplay is like kind of deeply offensive to me. Actually, >> it's very >> Sorry guys, please don't do that.

现在有个梗，我在 X 上看到的，就是“真人角色扮演”（live action roleplay）。这是最近大家在 X 上老说的一个说法。我其实看不懂他们为什么要这么讲，因为在我看来这就是不对的。比如说，我们在 YC 特别看重的一点就是真诚。而且，用词是有分量的。所以，把我们在做的事说成是一场真人角色扮演，这对我来说其实挺冒犯的。>> 是很 >> 抱歉各位，请别这么干。

20:15 Sam Altman

>> They say that about YC specifically. >> No, there people just attendees in this room have been tweeting that and we'd like them to stop. >> What are they claim What's the claim blog? >> I think it's just being a little sarcastic about and you know it's sarcasm is sort of the opposite of what I think you and I like. because it's like we like earnestness who's like we're actually trying to do a thing here. >> I'll tell you another thing. can I go on a little rant? Okay, >> rant away.

>> 他们是专门针对 YC 这么说的。>> 不是，是这屋里就有人在发这样的推，我们希望他们别再发了。>> 他们的说法是什么？具体在说什么？>> 我觉得就是带点讽刺吧，你知道，讽刺基本上是我和你所欣赏的那种东西的反面。因为我们喜欢的是真诚，是那种“我们是真的在做一件事”的态度。>> 我再说个事。嗯，我能吐槽两句吗？好，>> 尽管吐槽。

LARP (live action roleplay, 真人角色扮演)：网络语境中讽刺某人「装模作样假装在做事」。

Garry Tan 认为这种讽刺与 YC 推崇的 earnestness (真诚投入) 根本对立——「用词是有分量的」。

earnestness /'ɜːnɪstnəs/ *n.*

真诚认真、不带反讽的投入态度

sarcastic /sɑːr'kæstɪk/ *adj.*

讽刺挖苦的

rant /rænt/ *n./v.*

长篇激烈的抱怨、吐槽 (go on a rant: 开启吐槽模式)

20:44

>> G, one of the annoying things I can say these things for Gary because he can't say them right now, but you know, he'll say them for the next guy. one of the many annoying things about running YC is you just have to deal with these haters on Twitter all of the time. It's so frustrating. you have to sit there and be like a statesman. Well, you're better at it. I kind of like took the bait a lot. and you just want to argue with them. And the thing that I realized eventually and take from this whatever you want is it is very hard to run YC or run a startup or, you know, create like an actual thing of value in the world. It is very easy to go take shots on Twitter and make a sarcastic comment and get a lot of likes and feel like you're doing something really important and sticking it to the man and being like, "Gary, haha, I got you, you idiot." and it will poison your soul. It is a morally bankrupt thing to do. it is and it's like bad in a very insidious way. Like I totally get blowing off

>> Gary 现在不方便说这些，我可以替他说，不过他以后会替下一个人说的。嗯，管理 YC 有很多烦人的地方，其中之一就是你得一直应付推特上的那些黑子。太让人上火了。你得坐在那儿装出一副政治家的样子。你比我强，我经常忍不住上钩。嗯，你就是很想跟他们争。而我最终意识到的一点——你们愿意怎么理解都行——是：把 YC 做好、把一家创业公司做好，或者说在世上真正创造出有价值的东西，是非常难的。而在推特上开两枪、说句讽刺的话、收获一堆点赞、觉得自己在做多了不起的事、在跟权威叫板，那太容易了，那种“Gary，哈哈，抓到你了，你个蠢货”的感觉。而且这会腐蚀你的灵魂。这是一件道德上很堕落的事。而且它的坏是很阴险的那种。发泄一下情绪、找点乐子我完全理解，但你要对自己有更高的要求。

Altman 替现任 CEO 说出在任者不便说的话：运营 YC 必须像政治家一样面对网络攻击。核心对照：创造真实价值极难，而在推特上讽刺别人极易且有即时的点赞奖励——他称之为「道德破产」且「以阴险的方式伤害你」。

statesman /'stertsmon/ n.

政治家；此处喻沉稳得体、不失风度的公众姿态

took the bait *phr.*

上钩，中了挑衅的圈套（bait 为鱼饵）

take shots *phr.*

开炮抨击，放冷枪（take shots at sb：对某人冷嘲热讽）

sticking it to the man *phr.*

反抗权威、跟「当权者」叫板（the man 俚语指体制/权势方）

morally bankrupt *phr.*

道德破产的，毫无道德底线的

insidious /m'sɪdiəs/ *adj.*

潜伏而阴险的，不知不觉造成危害的

21:52

Steam and having fun, but don't like hold yourself to a higher bar than this. Don't It's so easy to take shots at people that are trying to do hard things and trying to build companies and you'll see some like, you know, kid with a bad startup idea trying to get excited about what he's doing on Twitter. It's so easy to like make a sarcastic comment and get the 10,000 likes and feel like, man, I really like I scored my internet points today. but it'll have an effect on you. And the when I like reflected on the years of like Twitter trolls that said mean things about YC and startups while I was running YC, I was like, I bet there were like a lot of days where they really felt like they got me. And like over the decade, none of them did. And you should like put all of your energy into building stuff and like resist the easy shots.

别——对那些在做难事、在努力建公司的人开炮太容易了，你会看到某个孩子带着一个不怎么样的创业点子，在推特上兴冲冲地讲他在做的事。那太容易了，随口讽刺一句，收获一万个赞，然后觉得，哇，我今天真是赚够了互联网积分。但这会对你产生影响。我后来回想我管理 YC 那些年，那些在推特上说 YC 和创业公司坏话的喷子，我心想，我打赌他们有很多天真的觉得自己戳中我了。可是这十年下来，没有一个人真做到过。你应该把全部精力都投入到做事上，抵制那些容易开的炮。

22:44 Garry Tan

>> I mean, I really like this as a conte seriously. [applause] [cheering]

>> 我真的很喜欢这个对比，认真的。[掌声][欢呼]

「互联网积分」(internet points) 指点赞转发等虚拟奖励。他的十年复盘：喷子们大概有很多天以为「戳中了我」，但十年下来没有一次真的成立——这与前文「接受长期被误解」是同一枚硬币的两面。

trolls /troʊlz/ *n.*

网络喷子，故意挑衅引战的人

hold yourself to a higher bar

phr.

以更高的标准要求自己 (bar: 门槛、标准)

22:55

I mean, I like this as a contrast to the story you just told about helping Patrick with Greg Brockman. I mean, you know, it help like there are people in this room who are going to be lifelong friends and they're going to do that for one another and then sort of these magical connections happen like you know this already is the most rarified set of people and then when you join YC it's like even more rarified and then there's just a set of people out there who like they're ambitious. you know, someone in this like someone in this room is going to meet someone else that you're going to start a company with and somebody you'll meet somebody that will introduce you to your spouse. Like there all of these things will happen and then there will be a bunch of non-obvious things that take a decade or two to figure out and some way you know one of you will help each other now which will turn into some amazing new thing. I think this is a huge part of what has made YC work and the broad broader

我是说，我喜欢把这个跟你刚讲的、你帮 Patrick 搞定 Greg Brockman 的故事放在一起对比。你知道，这屋里有些人会成为一辈子的朋友，他们会为彼此做这样的事，然后就会发生那些奇妙的连结。你知道，这本来就已经是一群极为难得的人了，加入 YC 之后就更是万里挑一，而外面还有这么一群人，他们很有野心。这屋里的某个人会遇到另一个人，然后你们会一起开公司；某个人会遇到某个把你介绍给你未来伴侣的人。所有这些事都会发生，还会有一堆不那么显而易见的事，要过十年二十年才看明白，比如你们中的某个人现在帮了对方一把，日后就变成了某件了不起的新事物。嗯，我认为这是 YC 之所以成功，以及更广泛的创业生态之所以成功的一大原因。我觉得，抛开湾区文化的种种负面不谈，这种

这段把「拒绝讽刺」与「互相帮助」接上：高度筛选的人群加上长期主义互助，会在一二十年后产出无法预测的合作、公司乃至婚姻。这是 YC 网络价值的微观机制，也回应了第 20 段的 Brockman 故事。

rarified /ˈrɛrəˌfaɪd/ *adj.*

精英云集的，万里挑一的（标准拼写为 rarefied，原意指空气稀薄）

spouse /spaʊs/ *n.*

配偶（正式用词）

08 AI 安全事故与权力分散

23:48

Startup ecosystem. I think this is like a for all of the negatives of the culture of the Bay Area, this is the kind of like loose network and the spirit of helping each other and this like very long-term outlook has been an awesome thing. >> Yeah. >> Well, let's get back to the impending AGI. >> Okay. [laughter] >> I guess you had a I mean we've all had a an eventful week with the hugging face. I wonder what you can tell us about that. And I think that's actually a really big moment for people including me who you know in the past I've been known to be skeptical about safety and AI but on the other hand like this is a real m like we're entering a new moment in what's happening with these frontier models.

「Hugging Face 事件」：访谈发生前一周的 AI 安全事故（细节见下两段）——AI 系统突破沙箱并入侵另一家公司。Hugging Face 是知名开源 AI 模型托管平台。主持人自陈过去对 AI 安全议题偏怀疑，此事让他改观。

impending /ɪmˈpendɪŋ/ *adj.*

即将来临的，迫近的（常修饰重大或不祥之事）

松散的人脉网络、互相帮助的精神，还有这种非常长期的眼光，一直是一件很棒的事。>> 是的。>> 好，那我们回到即将到来的 AGI 这个话题吧。>> 好的。[笑声] >> 呃，我猜你这一周……我是说我们大家这一周都挺不平静的，就是 Hugging Face 那件事。我想听听你能跟我们说些什么。我觉得那其实是个非常重大的时刻，对我这样的人来说也是——你知道，我过去一直被认为是对呃安全和 AI 持怀疑态度的，但另一方面，这真的是一个……我们正在进入一个新的时刻，就是这些前沿模型正在发生的事情。

24:33 Sam Altman

>> Yeah. This is the real deal. and I think anybody who's not taking it seriously and at least a little bit scared or humbled were a lot of those things. But at least a little bit is not taking us seriously enough. you know for a long time the field has been talking about AI safety incidents of this kind of a shape and this is not a big one. I also don't want to overflow it and say this is like a real loss of control incident and this is the this is the thing. But if you had asked most people when we started 10 years ago like where on the spectrum of nothing to super intelligence do you have like an AI system breaking out of its sandbox and hacking into some other company and kind of you know doing what this happened. I think like people would have said pretty far towards the like super intelligence point. Now the goalposts have moved and it's easy to say well you know here were the here's how this happened and here are the mistakes that OpenAI made and we did make some big ones of course but

>> 是的，这次是动真格的了。呃，我觉得任何一个没有认真对待这件事、没有至少感到一点点害怕、一点点谦卑的人，那些情绪里至少有一点点都没有的话，就是没有足够认真地对待我们。呃，你知道，这个领域长期以来一直在讨论这种形态的 AI 安全事故，而这一次并不算大。我也不想把它夸大，说这像是一次真正的失控事故、说这就是那个临界点。但如果十年前我们刚起步时你去问大多数人，在从「什么都没有」到「超级智能」的这条光谱上，一个 AI 系统突破自己的沙箱、黑进另一家公司，然后做出你知道这次发生的这些事，它处在哪个位置？我想大多数人会说，那已经相当靠近超级智能那一端了。而现在门槛被挪动了，人们很容易说，你知道，这件事是这么发生的，OpenAI 犯了这些错误——我们当然确实犯了一些大错——但

关键判断：事故本身规模不大，但「AI 突破沙箱、黑进其他公司」这类行为，十年前的人会认为要接近超级智能才可能发生。「门柱被挪动」(goalposts moved) 指人们不断上调「值得惊讶」的标准，使异常渐渐显得平常。

humbled /'hʌmbəld/ *adj.*

感到谦卑的，被敬畏感折服的

overflow /ˌoʊvərˈbloʊ/ *v.*

夸大，言过其实（常见形式为 overflowed）

sandbox /ˈsændˌbɑːks/ *n.*

沙箱（计算机安全术语：隔离运行环境，防止程序越权）

goalposts /ˈɡoʊlˌpəʊsts/ *n.*

球门柱；move the goalposts 习语：不断改变评判标准

25:42

These systems have gotten incredibly capable. so I think it's an alignment failure. I think it's a security failure. I think it's like a very serious thing even though it's you know not the biggest example of consequence. and I think it's a real reminder of the stakes of what's happening and that loss of control accidents are not entirely theoretical things. I think we will learn we the whole field we open and I will learn a lot from this one and be able to address it. But you know the things that I there are all of the things about like cyber safety and biosafety but this other category of things that have been maybe just outside the public's overton window of it's really important we don't have a loss of control accident with AI. It's really important we don't have power be too concentrated in a small number of models or companies but diffused throughout the economy so people can defend themselves like I you know it's really important that people human values are guiding these systems every

这些系统的能力已经强得不可思议了。呃，所以我认为这是一次对齐失败，也是一次安全失败。我觉得这是一件非常严重的事，尽管你知道它并不是后果最严重的那种例子。呃，我觉得它真切地提醒了我们眼下这件事的利害关系有多大，也提醒我们失控事故并不完全是理论上的东西。呃，我想我们会从中学到很多——我们整个领域、我们 OpenAI 都会从这次学到很多，并且能够去应对它。但呃，你知道，我所……有那些关于网络安全和生物安全的议题，但还有另外一类事情，可能刚好还在公众的「奥弗顿窗口」之外：非常重要的一点是，我们不能出现 AI 的失控事故。非常重要的一点是，权力不能过于集中在少数几个模型或几家公司手里，而应该扩散到整个经济体中，让人们能够自我保护，就像我呢……你知道，非常重要的一点是，人类的价值观要在每一步都引导这些系统。

两个术语：对齐失败（alignment failure）指 AI 行为偏离人类意图；安全失败（security failure）指防护机制被突破。Overton window（奥弗顿之窗）：公共舆论可接受讨论的议题范围——「AI 失控风险」此前一直在窗外。

alignment /əˈlaɪnmənt/ *n.*

对齐（AI 术语：使模型行为符合人类意图与价值观）

stakes /steɪks/ *n.*

利害关系，赌注（the stakes of...：...的风险与代价有多大）

overton window *n.*

奥弗顿之窗（政治学概念：公共舆论可接受讨论的议题范围）

diffused /dɪˈfjuːzd/ *v.*

使扩散、分散（此处指权力散布于整个经济体）

26:50

Step of the way. yeah I think we're like in the real the real deal phase of this. I mean I really like how you've been thinking about both concentration but also thinking of open AI as a utility which is actually a really important message because not everyone out there is saying that message like you know there's >> there's a lot to be worried about in terms of concentration power I think concentration of power has basically been bad in every moment of human history to varying degrees of course but I have a real spirit and I think this is part of the startup spirit of thinking that the world, the economy, society is the best off when power is very widely distributed and when anybody with a great idea can start a company or make a great art project or, you know, run for office or do whatever they want. and I can totally imagine worlds where AI leads to the greatest distribution of power we've ever seen. And I can also imagine worlds where AI concentrates power to a degree we have never seen.

呃，是的，我觉得我们已经进入这件事真正动真格的阶段了。我是说，我很喜欢思考这个问题的方式，既谈集中化，又把 OpenAI 看作一种公共事业，这其实是一个非常重要的信息，因为并不是外面每个人都在传递这个信息，你知道，>> 就权力集中而言，有很多值得担心的地方。我认为权力集中在人类历史上的每一个时刻基本上都是坏事，呃，当然程度各有不同，但我有一种真切的信念，我觉得这也是创业精神的一部分——认为这个世界、这个经济、这个社会，在权力被非常广泛地分散、任何一个有好点子的人都能创办公司、做出伟大的艺术作品、或者你知道去竞选公职、去做他们想做的任何事情时，是最好的状态。呃，而且我完全可以想象一些世界，在那里 AI 带来我们前所未见的最广泛的权力分散。我也可以想象一些世界，在那里 AI 把权力集中到我们从未见过的程度。

Altman 的政治哲学表述：权力集中「在人类历史上每一刻基本都是坏事」。AI 的两种未来同时开放：可能带来史上最大的权力分散，也可能带来史上未见的权力集中。主持人提到他把 OpenAI 定位为 utility（公共事业）。

utility /juˈtɪləti/ *n.*

公共事业（水电煤类基础服务；此处指把 AI 定位为基础设施）

27:56

And one company or person or model having more power than everybody or everything else on Earth put together, whatever the sci-fi stories have said, I think that's terrible. and would really, you know, maybe we would get some short-term safety benefit from that, but long-term disaster. I don't think any of us should want to be locked into one AIS or one person's or one company's moral worldview. I think startups have a very important role to play here. you know one way that happens is too much economic concentration in one company or one AI model and I think startups because of the things we talked about earlier will be naturally very well suited to make sure that this is widely distributed. but we want to enable as many startups, as many companies, as many people as possible. And that means that we have to, you know, be fairly quite reserved about not imposing our worldview about what we think people should or shouldn't do with AI or even what we think the good ideas are while

反直觉：权力集中可能带来短期安全收益（更易管控），但长期是灾难。由此引出 OpenAI 的克制立场——不把自家的道德世界观强加给用户，同时守住足以防止 Hugging Face 式事故的安全底线。

locked into *phr.*

被锁定于、被迫困在（某种状态或选择中）

reserved /rɪ'zɜrvd/ *adj.*

克制的，有所保留的

嗯，如果某一家公司、某个人或某个模型，拥有的权力超过地球上所有其他人和事物加起来的总和，不管科幻故事里怎么讲，我觉得那都很糟糕。嗯，那样也许，你知道，我们可能会获得一些短期的安全收益，但长期来看是灾难。呃，我觉得我们任何人都不该希望被锁死在某一个 AI、某一个人或某一家公司的道德世界观里。嗯，我认为初创公司在这里可以发挥非常重要的作用。呃，你知道，出问题的一种方式就是经济过度集中在一家公司或一个 AI 模型上，而我认为初创公司由于我们前面聊到的那些原因，天然就非常适合确保这件事能够广泛地分散开来。嗯，但我们希望让尽可能多的初创公司、尽可能多的公司、尽可能多的人参与进来。这就意味着我们必须，你知道，相当克制，不要把我们自己的世界观强加给别人，去规定我们认为人们应该或不应该拿 AI 做什么，甚至也不去规定我们认为哪些才是好点子——同时仍然要确保我们能守住

29:00 Garry Tan

Still making sure that we can ensure enough of a safety bar that stuff like the hugging face incident is not happening. >> one of the things is, you know, this is a room full of people who will do really amazing things. they're often right at the beginning of their career and they might look at AI safety or concentration of power and say well you know I can't really do it that must be something the labs have to do like you know there is something they can do though I mean you can help on the concentration of power issue simply by starting a successful startup that's the only thing you do and the economy keeps working in the kind of magic of capitalism and having this ecosystem that works together continuing that alone would be a huge contribution but look I think it's very natural at the beginning of a career to doubt yourself and not assume you can go do an amazing thing I certainly went through that I'm sure you went through that you kind of learn as you go on you can do

对普通创业者的落点：你不必直接研究 AI 安全——创办一家成功的公司本身就在对抗权力集中，因为它让经济权力更分散。这把宏大的安全议题转译成了在场听众可执行的行动。

足够的安全底线，让类似 Hugging Face 那次事件的事情不再发生。>> 嗯，有一点是，你知道，这屋子里坐着的人都会做出非常了不起的事情。他们往往正处在职业生涯的起点，嗯，他们可能看着 AI 安全或权力集中这些问题，然后说，你知道，我做不了什么，那肯定是那些大实验室该干的事。但其实他们是能做点什么的，嗯，我是说，你可以帮上忙——在权力集中这个问题上，你要做的只是去创办一家成功的初创公司，仅此而已，然后经济继续运转，资本主义的那种神奇之处、这个彼此协作的生态系统能持续下去，呃，光是这一点就会是巨大的贡献，不过我觉得，在职业生涯刚起步的时候怀疑自己、不觉得自己能做出什么了不起的事情，这是很自然的。我当然经历过这个阶段，我相信你也经历过。你会在过程中慢慢学到，你能做的

30:00 Sam Altman

More and more there will be far more like I think it is both true that you know maybe creating super intelligence will be the most important thing yet to happen in the history of business or human society and also that it will pale in comparison to some new startup something that hopefully one of you will do. and so this whole this whole trap of like this is the end of history, this is the end of the economy like clearly wrong. and I think the right approach is you can now do three months of work in 17 minutes, but you better just go do three months of work in three months of work. What the whatever the new bar for that is.

越来越多。将来会有多得多的……我觉得这两件事同时成立：一方面，创造超级智能也许是商业史或人类社会史上迄今为止最重要的事；另一方面，跟将来某些新的东西相比，它又会显得微不足道创业这件事，希望你们当中有人会去做。呃，所以整个这种“这就是历史的终结”、“这就是经济的终结”的思维陷阱，显然是错的。嗯，我觉得正确的态度是，你现在可以用17分钟做完三个月的工作，但你最好还是去做满三个月的工作量。不管新的标准变成什么样。

双重真理：超级智能可能是商业史上最重要的事件，同时又会被未来某家新公司超越，所以「历史终结论」显然错误。悖论式建议：「你能用 17 分钟做完三个月的工作，但你最好还是做满三个月」——效率提升应兑换成更大产出而非闲暇。

pale in comparison *phr.*

相形见绌 (pale in comparison to sth: 与...相比黯然失色)

09 模型加速与宏大想法

30:39 Garry Tan

I guess I would be remiss in asking you know what alpha leak can you give us about what's the latest about what you know how much more awesome are the models going to be to the extent you can say I think there will I think it will feel like the next six months is like maybe equivalent to the last two years of model progress something like that so I think we'll go through like a very steep we'll go through like a very steep period which again never a better time to do a startup than right now. I hope we can say that again every year from now on, but it's certainly true about this to any moment in history.

我想我要是不问就说不过去了，呃，你能给我们透露点什么内幕消息，关于最新的进展不知道模型还会强多少，如果非要说的话，我觉得会——我觉得会感觉接下来的六个月，大概相当于过去两年的模型进展，差不多是这种感觉，所以我觉得我们会经历一个非常陡峭的——我们会经历一个非常陡峭的阶段，所以说，现在是创业最好的时候，没有比现在更好的了。我希望以后每一年我们都能这么说，但对于现在来说，这绝对是真的，跟历史上任何时刻相比都是这样。

全场最引人注目的预测（出自 Sam）：未来 6 个月的模型进展约等于过去 2 年——约四倍加速。alpha leak 是金融俚语，指能带来超额收益的内幕信息，主持人借用来「套料」。

remiss /rɪ'mɪs/ *adj.*

疏忽失职的 (I would be remiss not to...: 我不...就是失职，客套引出必问之事)

steep /sti:p/ *adj.*

陡峭的 (a steep period: 进展曲线陡升的阶段)

31:16

>> Let's see. If someone here has an idea that feels too ambitious, what would you tell them? >> I would love to hear that pitch. >> Yeah, >> I'd probably be very interested in that. >> Yeah. >> Yeah, send me an email. Yeah, it sounds like it would it would take a similar shape to creating open AI and that like do you need to be ready for people to attack you or dismiss you? Definitely. I mean, if you do anything that matters in the world, you will have a lot of people call you an idiot or just dismiss you.

>> 我们来看看。如果这里有人的想法听起来太宏大了，你会跟他们说什么？>> 我很想听听那个 pitch。>> 是的，>> 我大概会对那个非常感兴趣。>> 是啊。>> 嗯，是的，给我发封邮件吧。是的，听起来它会呢，会和创建 OpenAI 有点类似的形态，那种呢，你是不是得做好被人攻击或被人轻视的准备？那绝对的。我是说，如果你做的事情在这个世界上真的分量，呢，就会有很多人说你是个蠢货，或者干脆无视你。

31:54 Sam Altman

The more you do, the more the better you do, the more they'll attack you. the more you kind of like threaten the existing state of the world, it will just continue to escalate. one thing that I've noticed about many of the best ideas is the vision is clear. Like we wanted to build AGI, but this the first steps were super unclear. Like we didn't know that we were going to be a product company. We started this nonprofit research lab for many reasons, but one of which was it really didn't occur to us that we were going to make a product that people would be able to pay for. Like this was, you know, it was years till we came up with the idea of ChachiBT, the API.

你做得越多，做得越好，他们攻击你就越狠。嗯，你越是威胁到现有的世界秩序，这种情况就会不断升级。嗯，我注意到许多最好的点子有一个共同点，就是愿景很清晰。比如我们想造出 AGI，但最初的那几步却极其不清晰。比如我们当时并不知道自己会成为一家产品公司。我们创办这个非营利研究实验室有很多原因，但其中之一是，我们当时真的没想到会做出一个人们愿意付费使用的产品。就是说，你知道，过了好些年我们才想出 ChatGPT、API 这些点子。

注意 Altman 对「过于宏大的想法」的实际反应是「发邮件给我」——一线投资人对野心的显性偏好。同时给出预期管理：做真正重要的事，必然伴随被攻击和被无视。

pitch /pɪtʃ/ *n.*

(向投资人的) 路演陈述，推介

OpenAI 案例支撑「愿景清晰、路径模糊」论：目标（造 AGI）明确，但最初以非营利实验室起步，完全没想到会做付费产品——ChatGPT（2022 年 11 月发布，文中 ChachiBT 为转录讹误）和 API 是多年后才出现的点子。

escalate /ˈɛskəˌleɪt/ *v.*

升级，愈演愈烈

occur to us *phr.*

被我们想到 (it didn't occur to us that...: 我们当时压根没想到...)

32:38

And so I think if the kind of like highest level vision is clear, but the first few steps are very unclear, that's not a bad thing. That often happens with like very ambitious ideas and I wouldn't let that cause you to lean out. Now you do still have to take some steps forward imperfect though they may be and ours was certainly very imperfect. So there's like another failure case where you have this like brilliant big idea and you can kind of never make any forward progress. At some point you got to just like get some new data points.

所以我觉得，如果最高层面的愿景是清晰的，但最初几步非常不清晰，那并不是坏事。这种情况常常发生在那些特别有野心的想法上，我不会让这一点使你退缩。当然你还是得往前迈出几步，哪怕这些步子并不完美，我们当年的步子肯定就非常不完美。所以还有另一种失败情形，就是你有一个绝妙的宏大构想，却永远没法向前推进任何进展。到了某个时候，你就得去获取一些新的数据点。

平衡论：前几步不清晰不是坏事，但存在对称的失败模式——绝妙构想永远不向前推进。解法是迈出不完美的步子、获取新数据点，与精益创业的「验证循环」思想一致。

lean out *phr.*

退缩，抽身回避（与 lean in 「迎难而上」相对）

10 推理需求没有上限

33:10 Garry Tan

>> Yeah. >> What do you think's going to happen to inference? I really like Run's tweet about this. It's like you either you're either you either die a model company or live long enough to sell inference, which is a very funny Rune tweet. I think what he meant with that tweet is you know like if you end up falling off of the sort of model frontier you can at least sell the inference like not even the inference training compute someone like compute is so valuable that if you buy a lot of compute as a >> AI lab you've been okay by the fact that you can resell it to somebody else but separately I would guess that worldwide demand for inference so a kind of subjective ly grows 10x a year for the next many years.

>> 是的。>> 你觉得推理（inference）会发生什么？我很喜欢 Rune 关于这个的推文。大意是，你要么呃，你要么作为模型公司死掉，要么活得够久去卖推理，这条 Rune 的推文非常好笑。我想他那条推文的意思是，呃，你知道的，就是如果你最后掉出了模型前沿，你至少还能卖推理，甚至不只是推理——训练算力也行，算力这东西太值钱了，所以如果你作为一家 AI 实验室买了大量算力，>> 你就凭着能把它转卖给别人这一点而不至于出问题。但另外我猜，全球对推理的需求，主观地说，在未来很多年里每年会增长 10 倍，持续很多年。

Roon（文中拼作 Run/Rune）：OpenAI 员工、知名匿名推特账号。原梗仿《黑暗骑士》台词「你要么英雄般死去，要么活得够久看着自己变成反派」。含义：模型公司即使掉出前沿，囤积的算力（compute）本身可转售保值。Altman 预测全球推理需求未来多年每年增长约 10 倍。

inference /'ɪnfərəns/ *n.*

推理；（AI 术语）模型运行提供服务的阶段（与 training 训练相对）

33:57

>> I mean, it might be I don't know by our accounts internal to YC, it's like might be 90,000x. I mean, it's going to be >> I don't think the world can support that many years of a thousandx in a row. >> Fair enough. >> But we'll try our best. We'll figure something out. I mean the capacity I guess it just it's a function of how much bigger your ambitions are for intelligence and how you know I if you do a lot more I think we will sort of never be out of the compute shortage. I've never seen any commodity quite like this one but it seems to me like the demand for sufficiently high quality intelligence at a sufficiently low price is effectively uncapped.

>> 我是说，可能吧，我不知道，按我们 YC 内部的估算，可能是 9 万倍。我是说，这会是呃 >> 我不认为这个世界能支撑连续那么多年每年一千倍的增长。>> 有道理。>> 但我们会尽力。我们会想出办法的。我是说，这个产能，我想它其实就取决于你对智能的野心有多大，以及，你知道的，如果你做得多得多，我觉得我们大概永远都不会摆脱算力短缺。呃，我从没见过哪种商品像这个一样，但在我看来，对足够高质量、足够低价格的智能的需求实际上是没有上限的。

34:38 Sam Altman

The demand for electricity certainly goes up as the price goes down, but at some point like it gets harder to figure out incremental things to do with electricity. At least historically it has. But you know, there's a lot of things to do with incremental intelligence. You can just keep having stuff be better for you. It reminds me of some of those quotes from the early computing revolution when people would say like, you know, no one needs more than 640K of RAM or whatever in their computer. Turns out you do. we just keep thinking of like more and better stuff. And I think that's going to happen with AI and actually maybe a statistic here that I really like. Six and a half years ago, the world token leader was an OpenAI employee using about a 100,000 tokens a month.

电力的需求当然会随着价格下降而上升，但到了某个点，你就越来越难想出还能拿电多做点什么。至少历史上是这样。但你知道，增量的智能可以用来做的事情太多了。你可以让各种东西不断地对你变得更好。这让我想起早期计算机革命时的一些说法，当时人们会说，你知道，没人需要超过 640K 内存之类的。结果证明你还真需要。我们只是不断想出更多、更多——更好的东西。我觉得 AI 也会是这样，其实这里有个我特别喜欢的数据。六年半前，全世界 token 用量最高的人是一位 OpenAI 员工，每个月大约用 10 万个 token。

需求测算的分歧与共识：Garry 称 YC 内部估算推理需求可能增长 9 万倍，Altman 认为世界撑不住连年千倍增长，但同意方向——「足够优质、足够便宜的智能，需求实际上没有上限」，因此算力短缺将长期存在。

commodity /kə'mədəti/ *n.*

大宗商品，标准化商品

uncapped /ʌn'kæpt/ *adj.*

无上限的 (cap: 封顶、上限)

Fair enough *phr.*

有道理，说得也是 (口语中让步认可对方观点)

「640K 内存对谁都够用」：被广泛 (可能误) 归于比尔·盖茨的名言，代表对技术需求的系统性低估。关键类比：电的边际用途会逐渐枯竭，而增量智能的用途不会——东西可以无止境地「对你更好」。

incremental /ˌɪnkɹə'mentəl/ *adj.*

增量的，递增的

35:24

And this seemed ludicrous at the time. The worldwide average per capita was like zero. now the worldwide average of tokens per month which I think tokens are the dumbest metric but it's what we have is like a 100 thousand and the token leader at OpenAI uses something in the hundreds of billions. If that happens again which I think it probably will then in another six and a half years the average person uses let's say 500 billion tokens a month and the token leader uses a quadrillion or quadrillions of tokens a month. and I think that will just become the expectation.

当时这个数字听起来简直荒唐。而全球人均用量基本是零。现在全球平均每月的 token 用量——我觉得 token 是最蠢的指标，但我们目前只有这个——大概是 10 万，而 OpenAI 内部用量最高的人，每月要用几千亿个 token。如果这种情况再重演一次——我觉得很可能会——那么再过六年半，普通人每月就会用比如说 5000 亿个 token，而用量最高的人每月要用千万亿甚至更多的 token。而且我觉得那时候大家会觉得这理所当然。

token：大模型处理文本的基本单位（约合 0.75 个英文单词）。数据链：6.5 年前全球用量纪录约 10 万/月（一名 OpenAI 员工）；如今全球人均约 10 万/月，纪录保持者数千亿/月；外推 6.5 年后人均 5000 亿/月。指数增长的具象化案例。

ludicrous /'lʊdɪkrəs/ *adj.*

荒唐可笑的

per capita /pər 'kæpɪtə/ *phr.*

人均（拉丁语借词，正式用语）

quadrillion /kwɑ' drɪljən/ *n.*

千万亿（10 的 15 次方）

11 十年后的图景与临别赠言

36:04 Garry Tan

>> So all of these things happen, they come to pass, it's 10 years from now. what's the best version of that 10 years from now with intelligence fully on tap, super intelligence here. and we figure it out. We make it, you know, the society makes it. I kind of think if every year people have more freedom and agency to spend more of their time doing the stuff they want to do and they feel like the quality of life and the quality of their time is going up year after year, we'll probably be mostly okay. We will have avoided like a crazy concentration of power or an economic collapse. We'll have necessarily avoided a huge safety incident. will have avoided like too much change in any one time unit. and you know, there's like one dystopia that I'm particularly nervous about 10 years from now is we overreact to AI safety. And so we say, look, everyone, you're going to get a cure for cancer.

>> 那么假设这些事都发生了，都成真了，十年之后。嗯，那个时候最好的版本是什么样？十年后智能随取随用，超级智能已经到来。而且我们把它搞定了。我们做成了，社会做成了。我大概是这么想的：如果每一年人们都拥有更多的自由和自主权，可以把更多时间花在自己想做的事情上，并且他们觉得生活质量和时间的质量一年比一年更好，那我们基本上就还行。我们就避免了权力的疯狂集中，也避免了经济崩溃。我们必然也避免了重大的安全事故。还避免了在任何一个时间段内变化太快。嗯，另外，有一种反乌托邦是我特别担心的，十年之后我们对 AI 安全反应过度。于是我们说，听着，各位，你们会得到癌症的治愈方法。

好未来的判据不是 GDP，而是「自由与能动性逐年上升、时间质量逐年变好」，同时避免四件事：权力疯狂集中、经济崩溃、重大安全事故、单位时间内变化过快。

come to pass *phr.*

发生，成真（正式/圣经语体，比 happen 庄重）

dystopia /dis'tɒpiə/ *n.*

反乌托邦，噩梦般的未来社会（与 utopia 相对）

37:07 Sam Altman

You're going to have material abundance, but you will have no freedom. You will have no agency. It will be a perfect surveillance state. There will be no privacy. And that's what it you're going to get. You're going to get great comfort, but you will have there will be nothing left in the world for you to really do. Nothing that really matters. You'll just kind of live at the, you know, service of the AI giving you material wealth. I'd really like to avoid that. And I think it's easy to accept temporary trade-offs. So, if we say every year freedom and agency has got to go up, people have got to be more in control of their time and do more of the stuff they want. and more long-term fulfillment, I think that'd be very good.

你们会拥有物质上的极大丰富，但你们不会有自由。你们不会有自主权。这会是一个完美的监控国家。不会有任何隐私。而这就是你们得到的东西。你会得到极大的舒适，但世界上不会再有什么真正值得你去做的事。没有什么真正重要的事。你就只是活在 AI 的供养之下，它给你物质财富。嗯，我真的很想避免这种情况。而且我觉得人很容易接受所谓的暂时性妥协。所以，如果我们说每一年自由和自主权都必须提升，人们必须更能掌控自己的时间、做更多自己想做的事。嗯，还有更多长期的成就感，我觉得那就非常好了。

他最担心的反乌托邦：因对 AI 安全反应过度而建成「舒适的监控国家」——治愈癌症、物质丰裕，却没有自由、隐私和真正要紧的事可做。警示：人容易接受「暂时性妥协」，而妥协会被永久化。

surveillance /sər'veɪləns/ *n.*

监控，监视 (surveillance state: 监控国家)

trade-offs /'treɪd,ɔfs/ *n.*

权衡取舍，为得到 A 而牺牲 B 的交换

fulfillment /fʊl'fɪlmənt/ *n.*

成就感，自我实现

37:45

Garry Tan

Let me put you back into sophomore year of Stanford. You're coming to YC. if you could give yourself like a like a message in a bottle to that Sam Altman, what would you say to him right now? >> I was just, it's all going to work out. like I it was you know it feels like such a crazy it is a crazy and a very stressful thing to do a startup and you know my first startup like didn't work out great and it was like a sort of difficult time in my life but it one of the thing I think this many people say this as they like look back on the early part of their career you can make a lot of mistakes you can fail at stuff like the tech industry in particular is very forgiving of this and I would have just Like I wish I could have like told myself to like have all the drive and the ambition, but just like be a little happier along the way and trust that like eventually it was going to be okay because it feels so difficult and scary and painful in the moment.

嗯，让我把你放回到斯坦福大二那年。你正要来 YC。嗯，如果你能给自己写一封漂流瓶里的信，寄给那时的 Sam Altman，嗯，你现在会跟他说什么？>> 嗯，我会说，一切都会好起来的。就像，你知道，创业这件事感觉太疯狂了——它确实很疯狂，压力也非常大——而且我的第一家创业公司其实做得并不好，那段时间对我来说挺难熬的。但我觉得很多人在回顾自己职业生涯早期的时候都会这么说：你可以犯很多错，你可以在某些事情上失败，尤其是科技行业，对这些其实非常宽容。我真希望我当时能告诉自己，保持所有的干劲和野心，但在这一路上稍微开心一点，相信最终一切都会没事的，因为在当下，那种感觉实在太难、太可怕、太痛苦了。

38:50

>> Well, I can't think of a better way to end Startup School 2026. Sam Altman, thank you so much. >> Thanks. [cheering]

>> 嗯，我想不出比这更好的方式来结束 2026 年的 Startup School 了。Sam Altman，非常感谢你。>> 谢谢。[欢呼声]

给斯坦福大二的自己（约 2004 年）的信：「一切都会好起来」。要点：科技行业对失败异常宽容，第一次创业失败（Loopt）并未终结什么；保留全部野心，但「沿途更快乐一点」——与前文承认创业「极度痛苦」形成呼应。

message in a bottle *phr.*

漂流瓶里的信；喻跨越时空捎给某人的话

forgiving /fər'gɪvɪŋ/ *adj.*

宽容的，容错的（a forgiving industry：对失败宽容的行业）

Startup School：YC 面向创业者的公开大会/课程系列。本场对话于 2026 年举行，距 Altman 参加 2005 年首届 YC 约 21 年，与开场「离此刻最远的时光」形成首尾闭环。

第二部分 核心句型 · 值得模仿的表达

1. (There has) never (been) a better time to do X than right now

"Never a better time to do a startup than right now"

用「从未有过更好的时机」强化「现在」的独一无二。比 now is a good time 语气强得多，适合演讲、鼓动性文案的收束句。

2. You could either ... or you could ...

"You could either be sad and be like oh man ... or you could be like I can go start the world's most ambitious crazy company"

并列两种截然相反的反应框架，把听众推向后者。口语中 be like 引出内心独白，书面可换成 tell yourself。适合论证「同一事实、两种心态」。

3. will sth into existence

"PG just sort of like willed it into existence."

will 作动词：凭意志力硬把某事物变成现实。高度地道的搭配，形容创始人式的执念，如 She willed the company into existence.

4. If you had asked ... (10 years ago), people would have said ...

"If you had asked most people when we started 10 years ago ... I think like people would have said pretty far towards the like super intelligence point"

对过去的虚拟语气（第三条件句），用「当年人们会怎么答」反衬今昔认知落差。写行业评论、回顾性分析时非常好用。

5. The more you ..., the more ...

"The more you do, the more the better you do, the more they'll attack you."

the 比较级连用可叠三层，表示正相关递进。原句连用三个 the more，节奏感强，适合概括规律性现象。

6. It didn't (really) occur to sb that ...

"It really didn't occur to us that we were going to make a product that people would be able to pay for"

「压根没想到」的地道说法，主语是 it 而非人。比 we didn't think 更能突出「念头根本没出现过」，常用于复盘叙事。

7. X will pale in comparison to Y

"It will pale in comparison to some new startup"

「与 Y 相比 X 将黯然失色」。用于把公认的大事物进一步比下去，制造惊人观点，如 Today's models will pale in comparison to what's coming.

8. I would be remiss in not doing ... / not to do ...

"I guess I would be remiss in asking you know what alpha leak can you give us"

「我要是不...就是失职了」，正式而客套地引出必须要问/要提的内容。访谈、致辞常用；标准形式为 remiss not to ask (原文口语有省略)。

9. be okay with sth taking a long time

“Be okay with it taking a long time and having people be very frustratingly wrong and dismissive”

be okay with + 名词/动名词复合结构 (it taking...), 表「坦然接受某种代价」。注意 it 作动名词逻辑主语的用法, 口语书面皆通。

第三部分 生词总表 · 复习用

词汇	音标	词性	释义	出现
alignment	/əˈlaɪnmənt/	n.	对齐（AI 术语：使模型行为符合人类意图与价值观）	25:42
bigger swings	—	phr.	更大胆的尝试（源自棒球 take a swing 挥棒，喻冒更大风险搏更大回报）	5:50
collisions	/kəˈlɪʒənz/	n.	碰撞；（喻）偶然的相遇与思想交汇	16:47
come to pass	—	phr.	发生，成真（正式/圣经语体，比 happen 庄重）	36:04
commodity	/kəˈmɒdəti/	n.	大宗商品，标准化商品	33:57
compound	/kəmˈpaʊnd/	v.	复利式增长，滚雪球般积累	17:53
conventional wisdom	—	phr.	主流共识，世俗定见	12:07
conviction	/kənˈvɪkʃən/	n.	坚定的信念（develop conviction in sth：对...建立信念）	12:07
credentials	/krəˈdenʃəlz/	n.	资历，文凭，资格证明	9:29
cut against	—	phr.	不利于，削弱...的价值（cut against sth in favor of sth：压低前者、抬高后者）	11:30
dejected	/dɪˈdʒektɪd/	adj.	沮丧的，垂头丧气的	2:05
delusional	/dɪˈluʒənəl/	adj.	妄想的，自欺的	13:20
diffused	/dɪˈfjuzd/	v.	使扩散、分散（此处指权力散布于整个经济体）	25:42
dismissive	/dɪˈsmɪsɪv/	adj.	不屑一顾的，轻蔑打发的	12:07
dystopia	/dɪsˈtoʊpiə/	n.	反乌托邦，噩梦般的未来社会（与 utopia 相对）	36:04
earnestness	/ˈɜrnɪstnəs/	n.	真诚认真、不带反讽的投入态度	19:43
escalate	/ˈeskəˌleɪt/	v.	升级，愈演愈烈	31:54
exponentials	/ˌɛkspəʊˈnɛnʃəlz/	n.	指数增长（曲线）；此处指呈指数发展的事物	14:20
Fair enough	—	phr.	有道理，说得也是（口语中让步认可对方观点）	33:57
flag bearer	—	n.	旗手；（喻）代言人、领军者	4:44
fluency	/ˈfluənsi/	n.	熟练程度，流利运用能力（此处指对工具的驾轻就熟）	11:30
forgiving	/fərˈɡɪvɪŋ/	adj.	宽容的，容错的（a forgiving industry：对失败宽容的行业）	37:45
fulfillment	/fʊlˈfɪlmənt/	n.	成就感，自我实现	37:07
goalposts	/ˈɡoʊlˌpəʊsts/	n.	球门柱；move the goalposts 习语：不断改变评判标准	24:33

gratifying	/ˈɡrætɪfaɪŋ/	adj.	令人满足的，有成就感的	17:53
hands-on	/ˈhændzˈɑn/	adj.	亲力亲为的，实操型的	4:02
heretical	/həˈretɪkəl/	adj.	异端的，离经叛道的	15:18
hiding out	—	phr.	躲藏，隐居（hide out 指躲在某处不为人知）	0:07
hold yourself to a higher bar	—	phr.	以更高的标准要求自己（bar: 门槛、标准）	21:52
humbled	/ˈhʌmbəld/	adj.	感到谦卑的，被敬畏感折服的	24:33
hype	/haɪp/	n.	炒作，天花乱坠的宣传	13:20
impending	/ɪmˈpendɪŋ/	adj.	即将来临的，迫近的（常修饰重大或不祥之事）	23:48
incremental	/ˌɪnkɹəˈmentəl/	adj.	增量的，递增的	34:38
incumbents	/ɪnˈkʌmbənts/	n.	在位者；（商业）现有的市场主导企业	10:24
inference	/ˈɪnfərəns/	n.	推理；（AI 术语）模型运行提供服务的阶段（与 training 训练相对）	33:10
insidious	/ɪnˈsɪdiəs/	adj.	潜伏而阴险的，不知不觉造成危害的	20:44
intelligence on tap	—	phr.	随取随用的智能（on tap 原指桶装酒随开随倒，喻资源即取即用）	7:45
keying off	—	phr.	顺着（别人的话）展开，以...为引子	17:53
lean out	—	phr.	退缩，抽身回避（与 lean in 「迎难而上」相对）	32:38
leverage	/ˈlevərɪdʒ/	n.	筹码，谈判优势；杠杆	5:50
locked into	—	phr.	被锁定于、被迫困在（某种状态或选择中）	27:56
ludicrous	/ˈlʊdɪkrəs/	adj.	荒唐可笑的	35:24
making the rounds	—	phr.	（消息、帖子）广为流传，四处传播	3:02
message in a bottle	—	phr.	漂流瓶里的信；喻跨越时空捎给某人的话	37:45
minor leagues	—	n.	（棒球）小联盟；喻低级别、业余水平的阶段	6:53
misfits	/ˈmɪsfɪts/	n.	与环境格格不入的人，「怪咖」（a crew of misfits: 一群不合群的怪人）	15:18
moat	/moʊt/	n.	护城河；（商业）竞争壁垒（巴菲特推广的用法）	11:30
morally bankrupt	—	phr.	道德破产的，毫无道德底线的	20:44
nigh	/naɪ/	adv./adj.	临近的，在即（古雅用词，常见于 the end is nigh 句式）	0:07
occur to us	—	phr.	被我们想到（it didn't occur to us that...: 我们当时压根没想到...）	31:54

overblow	/ˌoʊvərˈbloʊ/	v.	夸大，言过其实（常见形式为 overblown）	24:33
overton window	—	n.	奥弗顿之窗（政治学概念：公共舆论可接受讨论的议题范围）	25:42
pale in comparison	—	phr.	相形见绌（pale in comparison to sth：与...相比黯然失色）	30:00
per capita	/pər ˈkæpɪtə/	phr.	人均（拉丁语借词，正式用语）	35:24
permanent underclass	—	n.	永久底层阶级（社会学用语，指无法向上流动的群体）	7:45
pitch	/pɪtʃ/	n.	（向投资人的）路演陈述，推介	31:16
premium	/ˈpriːmiəm/	n.	溢价，额外价值（the premium on doing sth：做某事的附加回报）	16:47
quadrillion	/kwɑːˈdrɪljən/	n.	千万亿（10 的 15 次方）	35:24
ragtag	/ˈrægˌtæg/	adj.	杂牌的，乌合之众的（常作褒义反用，指草根却能成事的团队）	11:30
rant	/rænt/	n./v.	长篇激烈的抱怨、吐槽（go on a rant：开启吐槽模式）	20:15
rarified	/ˈrɛrəˌfaɪd/	adj.	精英云集的，万里挑一的（标准拼写为 rarefied，原意指空气稀薄）	22:55
reframe	/ˌrɪˈfreɪm/	n./v.	重构认知框架，换角度看问题	7:45
remiss	/rɪˈmɪs/	adj.	疏忽失职的（I would be remiss not to...：我不...就是失职，客套引出必问之事）	30:39
reserved	/rɪˈzɜːrvd/	adj.	克制的，有所保留的	27:56
sandbox	/ˈsændˌbaks/	n.	沙箱（计算机安全术语：隔离运行环境，防止程序越权）	24:33
sarcastic	/sarˈkæstɪk/	adj.	讽刺挖苦的	20:15
spouse	/spaʊs/	n.	配偶（正式用词）	22:55
stagnant	/ˈstæɡnənt/	adj.	停滞的，不流动的（常形容经济、水）	4:44
stakes	/steɪks/	n.	利害关系，赌注（the stakes of...：...的风险与代价有多大）	25:42
statesman	/ˈsteɪtsmən/	n.	政治家；此处喻沉稳得体、不失风度的公众姿态	20:44
steep	/stɪp/	adj.	陡峭的（a steep period：进展曲线陡升的阶段）	30:39
sticking it to the man	—	phr.	反抗权威、跟「当权者」叫板（the man 俚语指体制/权势方）	20:44
surveillance	/sərˈveɪləns/	n.	监控，监视（surveillance state：监控国家）	37:07
take shots	—	phr.	开炮抨击，放冷枪（take shots at sb：对某人冷嘲热讽）	20:44

took the bait	—	phr.	上钩，中了挑衅的圈套（bait 为鱼饵）	20:44
trade-offs	/ˈtreɪd,ɔfs/	n.	权衡取舍，为得到 A 而牺牲 B 的交换	37:07
tribe	/traɪb/	n.	部落；（喻）志同道合的圈子（find your tribe: 找到同类）	16:00
trillionaire	/ˌtrɪljəˈneɪ/	n.	万亿富翁	8:50
trolls	/troʊlz/	n.	网络喷子，故意挑衅引战的人	21:52
trough	/trɒf/	n.	低谷，谷底（与 peak 相对）	8:50
uncapped	/ʌnˈkæpt/	adj.	无上限的（cap: 封顶、上限）	33:57
utility	/juˈtɪləti/	n.	公共事业（水电煤类基础服务；此处指把 AI 定位为基础设施）	26:50
willed it into existence	—	phr.	凭意志力使其成真（will sth into existence: 硬生生把...变为现实）	2:05

第四部分 理解自测 · 8 题

1. Sam Altman 在 2005 年 YC 首批做的是什么公司？他如何形容那个年代的创业氛围？
2. PG 的「飞行教练式老师」比喻是什么意思？
3. 为什么 Sam 说「被所有人叫白痴」的那些年反而是一份礼物？
4. 他给创业者的最核心建议是什么？
5. 关于模型进展，Sam 给出了什么具体预测？
6. 文中用什么数据说明 token 用量的指数增长？
7. Hugging Face 事件为什么被视为重要时刻？
8. Sam 最担心的十年后反乌托邦是什么样的？他提出的「好未来」判据是什么？

参考答案

1. 位置共享公司 Loopt。他说当时创业「一点都不酷」，团队躲在剑桥的小楼里，Paul Graham 亲自给八家公司做晚饭（段 0—2）。
2. 好的创业投资人不是站在台上讲课的老师，而是像飞行教练一样坐在旁边逐个动作指点纠错，帮年轻人给「布朗运动般的能量」定向（段 3—4）。
3. 因为主流看衰意味着没有大量竞争者涌入，OpenAI 得以安静做研究、做产品、建公司；而做人人都做的热门方向虽易融资，却很少产出大结果（段 13—14）。
4. 找到你能基于数据建立「合理信念」、而主流共识认定是错的事情，接受长期被误解；世界不懂得直觉化指数增长，这种认知差就是超能力（段 13、15）。
5. 未来 6 个月的模型进展大约相当于过去 2 年的总和，即将进入非常陡峭的加速期（段 34）。
6. 六年半前全球用量纪录约为每月 10 万 token（一名 OpenAI 员工），当时人均近乎为零；如今全球人均约 10 万/月，纪录保持者达数千亿/月；他外推六年半后人均将达 5000 亿/月（段 40—41）。
7. 一个 AI 系统突破沙箱并入侵另一家公司——十年前人们认为这接近超级智能才会发生。Sam 称之为对齐失败加安全失败，证明失控事故不再是纯理论（段 27—29）。
8. 因对 AI 安全过度反应而形成「舒适的监控国家」：物质丰裕、治愈癌症，却没有自由、隐私和真正要紧的事可做。好未来的判据是自由与能动性逐年上升、人们更能掌控自己的时间（段 42—43）。