

7月3日-4日·中国·北京

2019云计算开源产业大会

《开源软件的三生三世》

龚仪

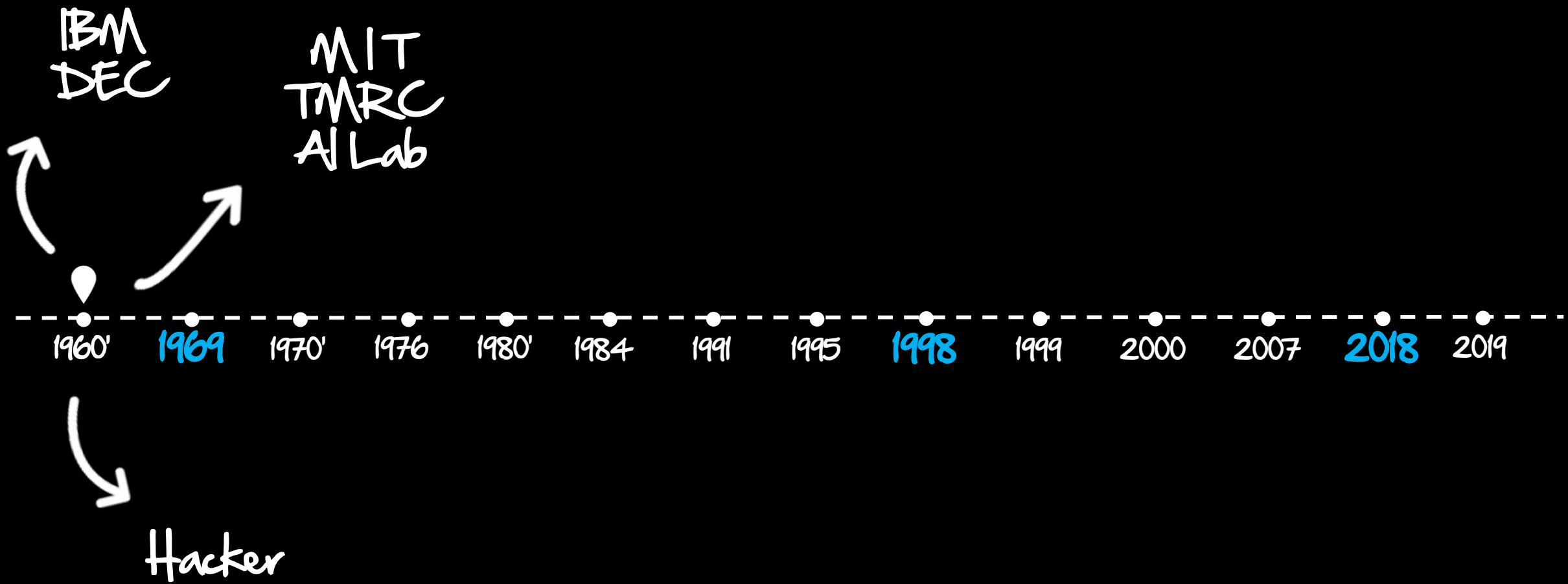
富麦科技创始人 & CEO

假如您就像我一样深信，在未来，软件构成的一些核心工具和原则将指导人类如何协同工作，协助人们创造财富并开创美好的未来，寻求新思想和新问题的解决方案，那么，理解开源如何改变这些过程至关重要。

——史蒂文 韦伯 《开源的成功之路》

Free = ?





“他们有远见，把计算机看作构建社区的工具。”

黑客道德：开放、共享、协作。

所有的信息都应该可以**自由(免费)**获取。

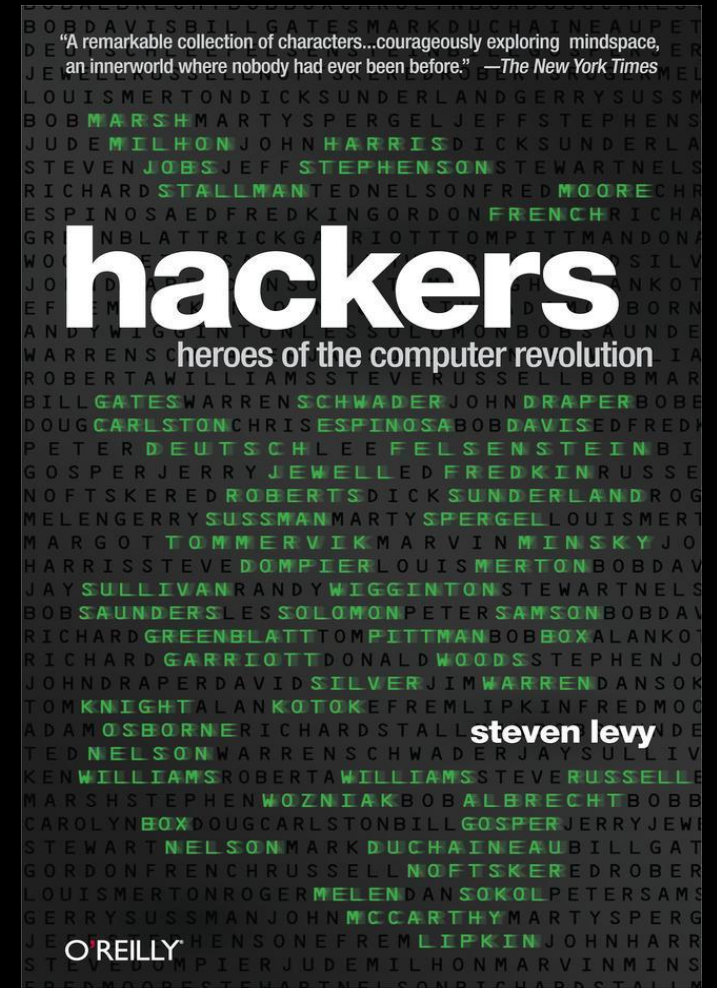
不迷信权威——促进分权。

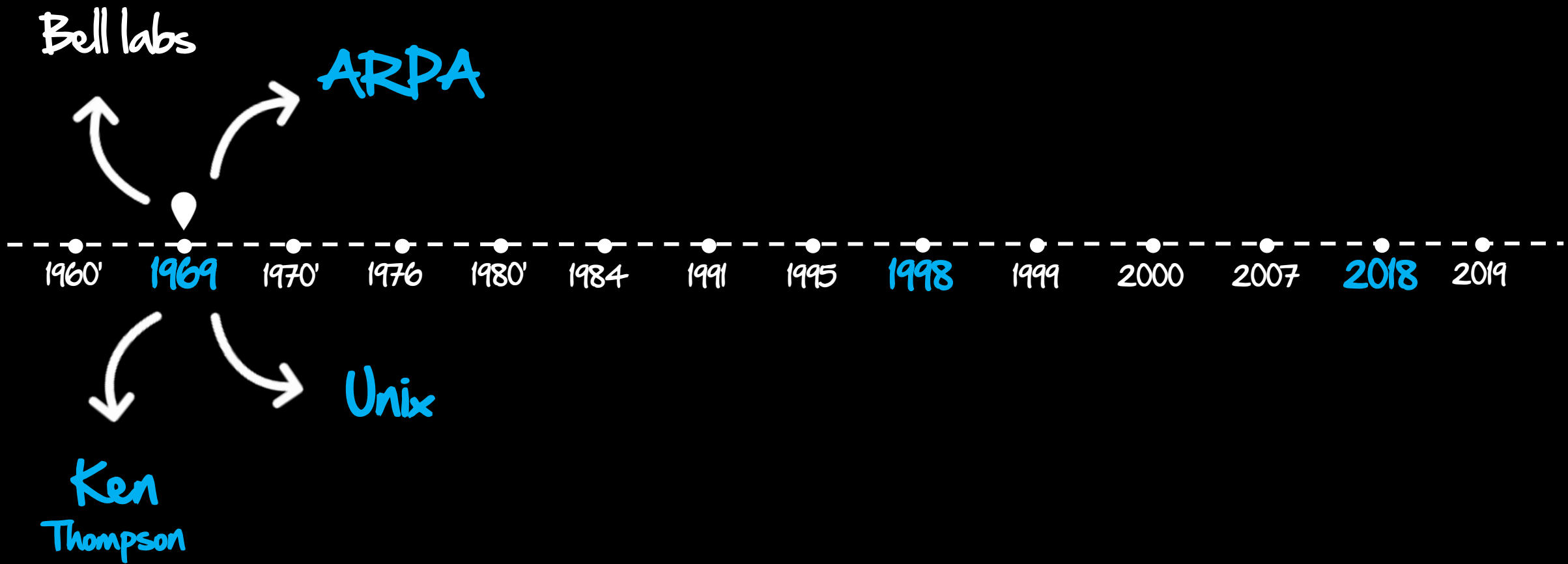
评判黑客的标准应该是他们的技术，而不是那些没有实际用途的指标，比如学位、年龄、种族或职位。

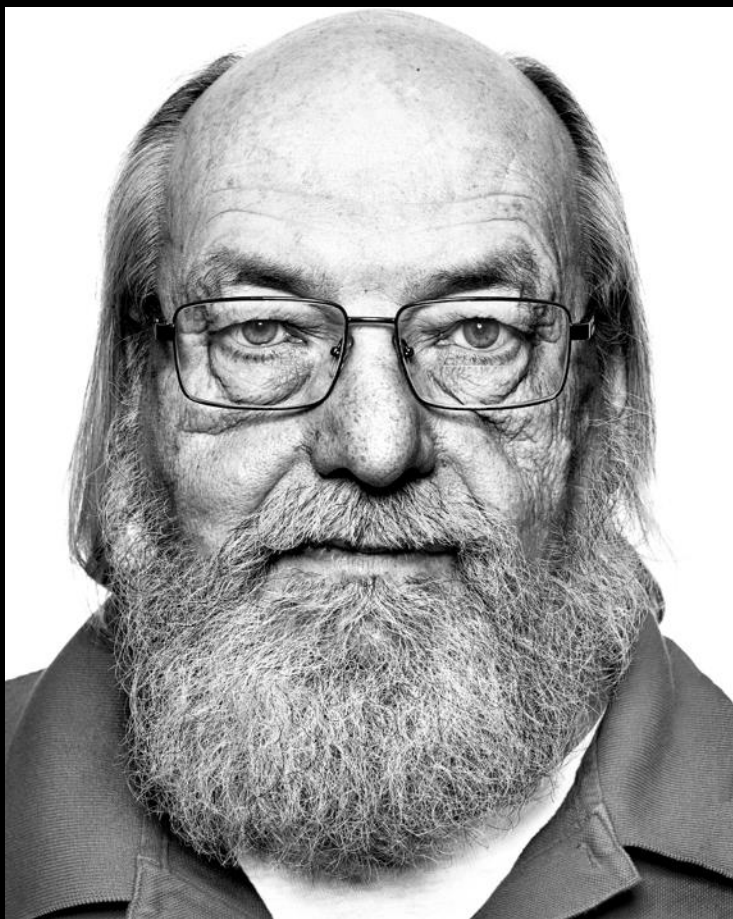
你可以在计算机上创造出艺术和美。

计算机可以让你的生活更美好。（由计算机打开的世界是没有边界的）

- Steven Levy 《Hackers》







Ken Thompson

1983年 跟同事Dennis Ritchie一起获得图灵奖。

Unix和C语言的创始人。

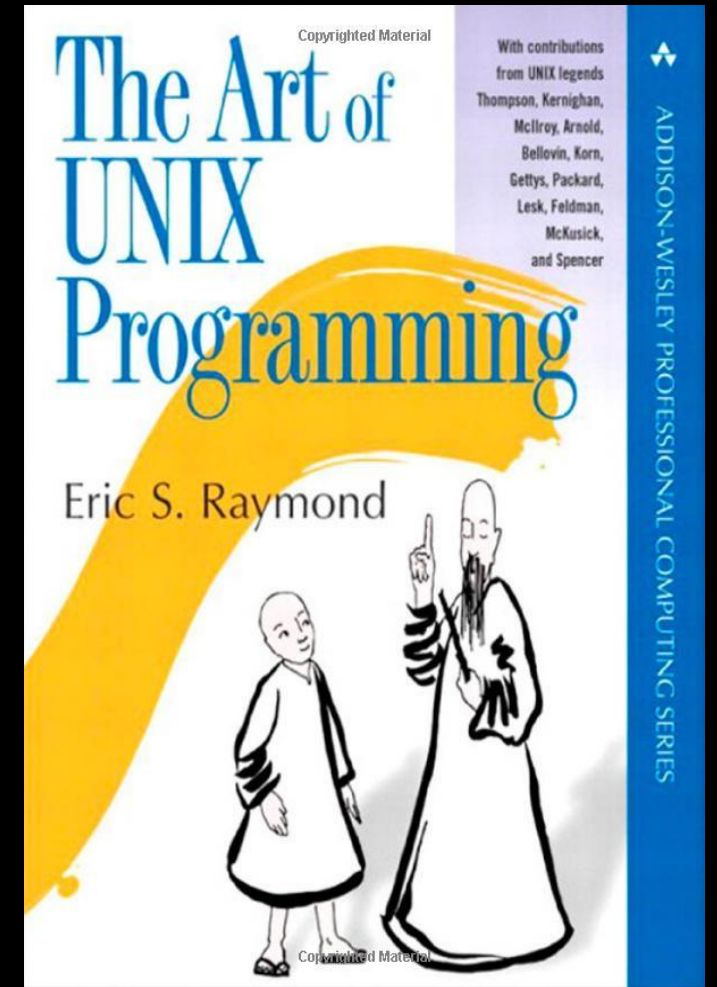
为了能继续玩自己开发的“星际旅行”游戏，而开发了Unix。

Unix: 创建小巧而非浮夸的系统。

编程模块化思想使软件从工具转变成“工具箱”

K I S S : Keep It Simple, Stupid

Eric S. Raymond 《The Art of UNIX Programming》



University of
California,
Berkeley



BSD

February 3, 1976

An Open Letter to Hobbyists

To me, the most critical thing in the hobby market right now is the lack of good software courses, books and software itself. Without good software and an owner who understands programming, a hobby computer is wasted. Will quality software be written for the hobby market?

Almost a year ago, Paul Allen and myself, expecting the hobby market to expand, hired Monte Davidoff and developed Altair BASIC. Though the initial work took only two months, the three of us have spent most of the last year documenting, improving and adding features to BASIC. Now we have 4K, 8K, EXTENDED, ROM and DISK BASIC. The value of the computer time we have used exceeds \$40,000.

The feedback we have gotten from the hundreds of people who say they are using BASIC has all been positive. Two surprising things are apparent, however. 1) Most of these "users" never bought BASIC (less than 10% of all Altair owners have bought BASIC), and 2) The amount of royalties we have received from sales to hobbyists makes the time spent of Altair BASIC worth less than \$2 an hour.

Why is this? As the majority of hobbyists must be aware, most of you steal your software. Hardware must be paid for, but software is something to share. Who cares if the people who worked on it get paid?

Is this fair? One thing you don't do by stealing software is get back at MITS for some problem you may have had. MITS doesn't make money selling software. The royalty paid to us, the manual, the tape and the overhead make it a break-even operation. One thing you do do is prevent good software from being written. Who can afford to do professional work for nothing? What hobbyist can put 3-man years into programming, finding all bugs, documenting his product and distribute for free? The fact is, no one besides us has invested a lot of money in hobby software. We have written 6800 BASIC, and are writing 8080 APL and 6800 APL, but there is very little incentive to make this software available to hobbyists. Most directly, the thing you do is theft.

What about the guys who re-sell Altair BASIC, aren't they making money on hobby software? Yes, but those who have been reported to us may lose in the end. They are the ones who give hobbyists a bad name, and should be kicked out of any club meeting they show up at.

I would appreciate letters from any one who wants to pay up, or has a suggestion or comment. Just write me at 1180 Alvarado SE, #114, Albuquerque, New Mexico, 87108. Nothing would please me more than being able to hire ten programmers and deluge the hobby market with good software.

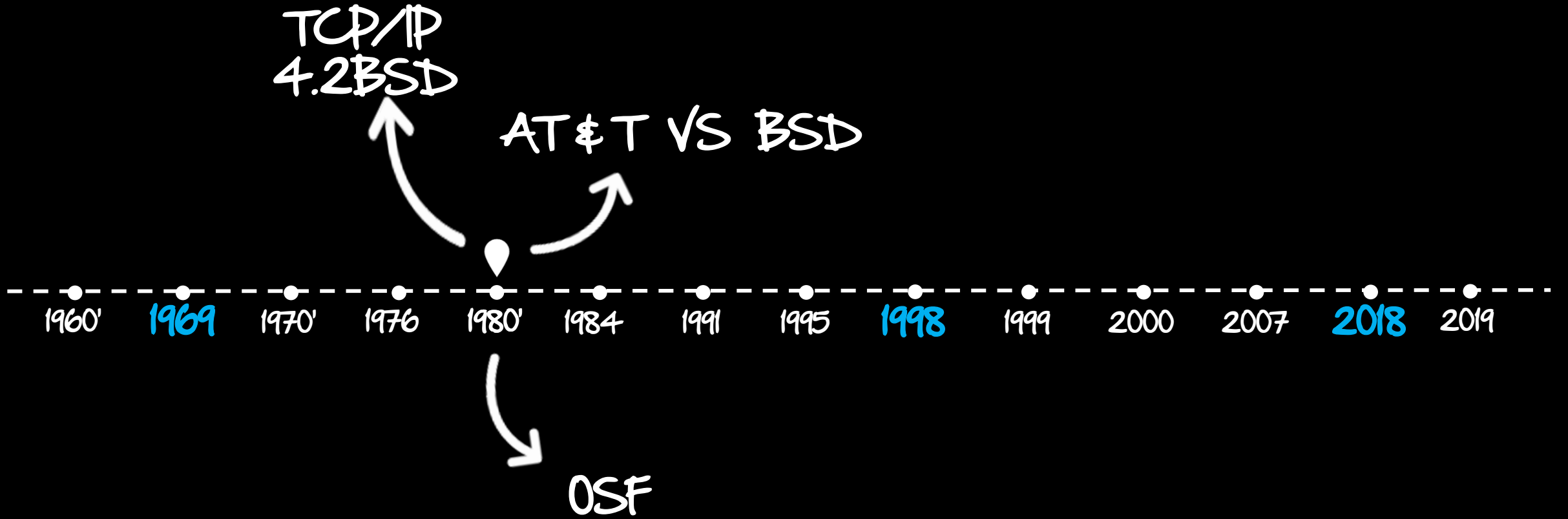
Bill Gates

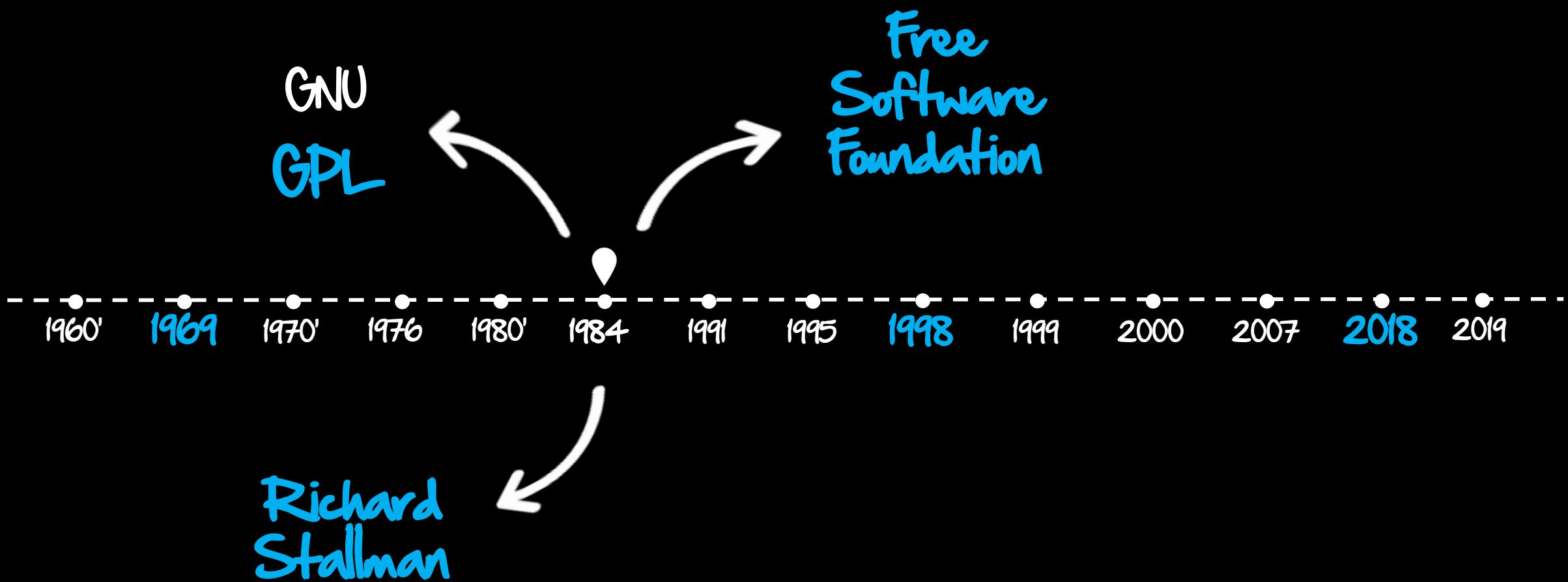
Bill Gates
General Partner, Micro-Soft

《致计算机爱好者的公开信》
“大多数爱好者必须明白，你们大部分人在偷窃软件。”

21岁的比尔盖茨，天才般的提出了软件 License 销售模式，开创了美国软件工业的四十多年的辉煌。







GNU
GPL

Free
Software
Foundation

Richard
Stallman

1960' 1969 1970' 1976 1980' 1984 1991 1995 1998 1999 2000 2007 2018 2019

Richard M Stallman

GNU工程创始人
GPL创始人
自由软件基金会创始人

自称是最后的黑客。

我是搞自由软件的，开源是另外一码事！

事实证明：他站的更高，看的更远！



历史证明，GPL是他最伟大的创造。

与其用怀疑的眼光看待版权法，不如用黑客的精神渗入到这个系统中。

如果需要，为了让别人接受他的观点，他可以等上十年。

我的猜测是，斯托曼的作品会像托马斯杰斐逊的一样伟大。

Steven Weber 《Free as in Freedom》



Linus
Torvalds

386/BSD
Linux



Linus Torvalds

1969年出生

Linux和Git创始人

他的伟大不只是做了Linux，而是开创了一种协作的开发模式。



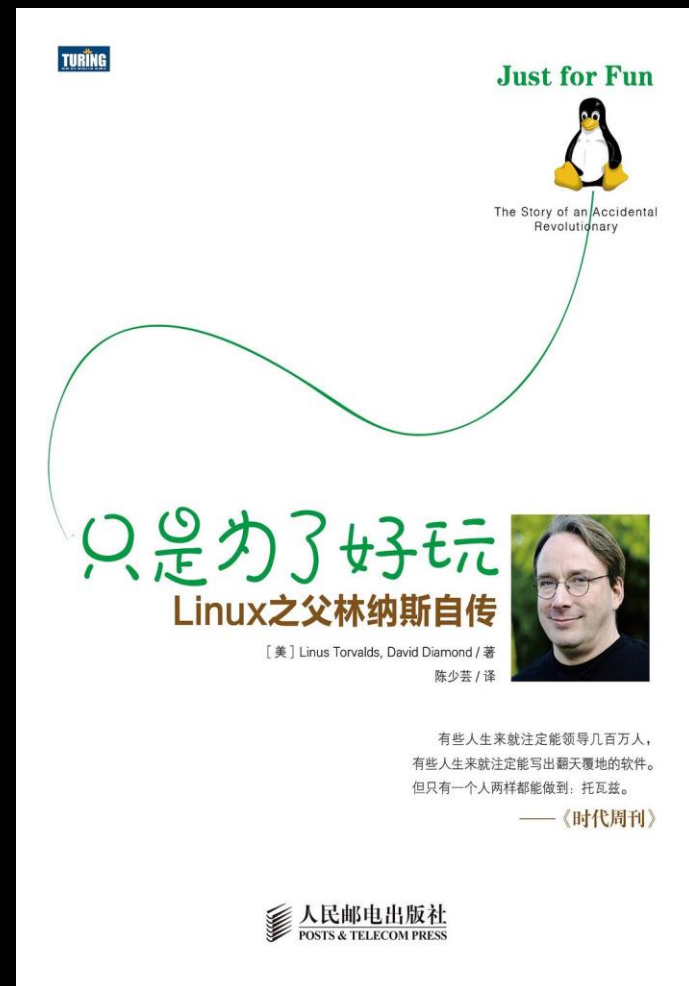
生存、社交、获得乐趣

如果知道有386BSD的话，我就不做Linux了。

我是一个非常懒惰的人，并且喜欢把别人的成果占为己有。

我并不排斥专有软件，如果它很好用的话，比如PPT。

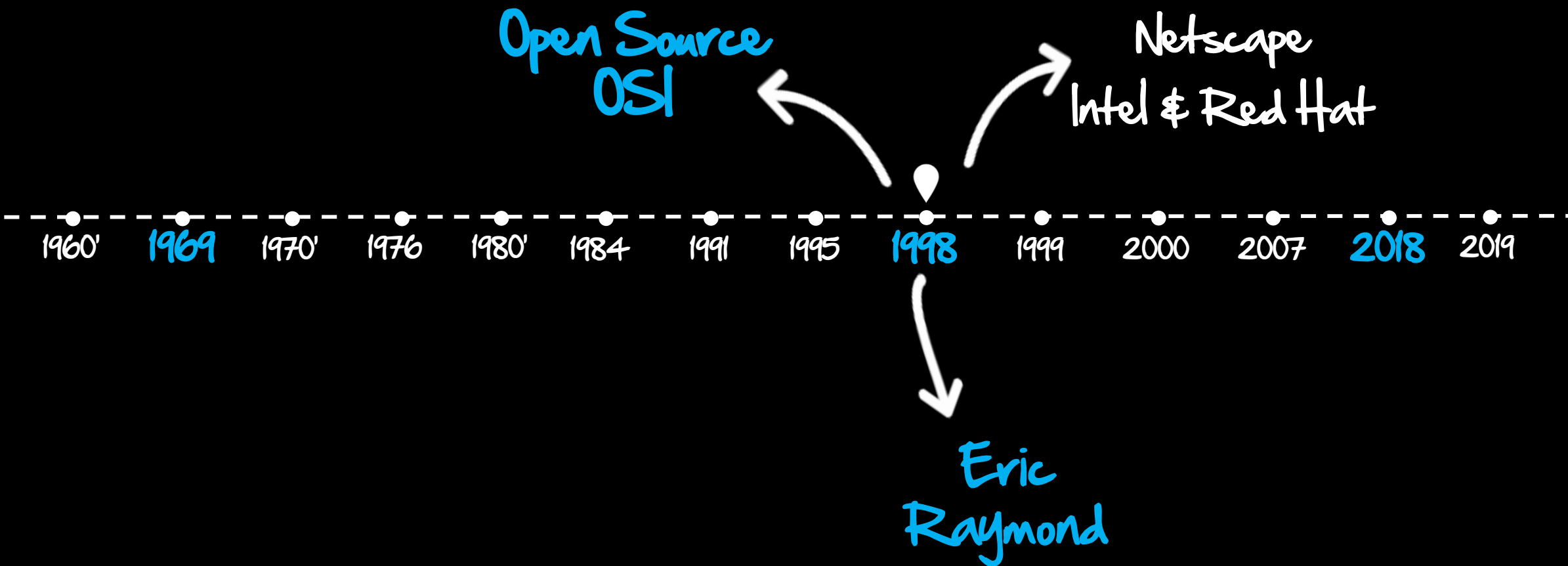
Linus Torvalds, David Diamond 《Just For Fun》



ASF

Apache





Eric S Raymond

- 《大教堂与集市》
- 《Unix编程艺术》

- 把Internet当成一个“培养皿”，并且把黑客社区简单的监督看成一个自然选择的过程，Linus建立了革命性的软件



眼睛足够多，Bug容易捉。

用自由软件是因为它运行的更好，而不是因为软件都该是自由的。

大教堂与集市：Netscape开源Mozilla浏览器。

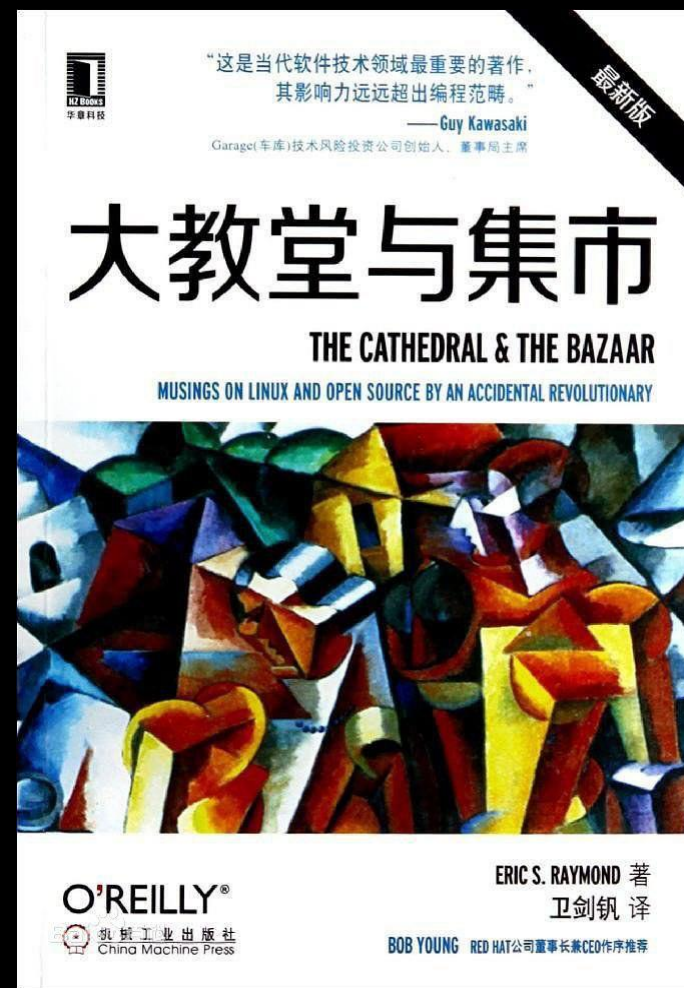
Unix历史中最大的规律：距开源越近就越繁荣。

过度依赖任何一种技术都是错误的，保持软件及其设计的灵活性才是长存之道。

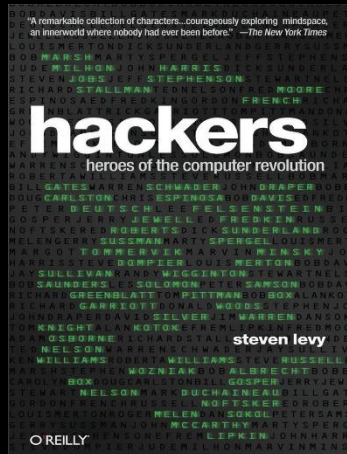
别和低价而灵活的方案较劲。

开源运动的成功正是由于软件的大众化。

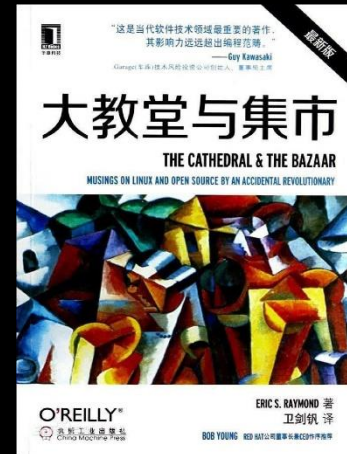
Eric S. Raymond 《大教堂与集市》



黑客-计算机革命的英雄 1984

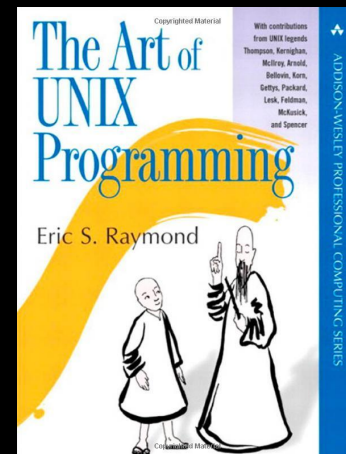
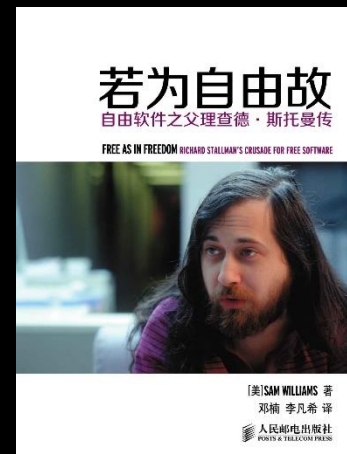
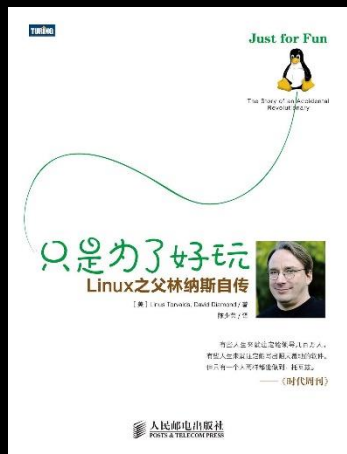


大教堂与集市 1997



硅谷之火 2001

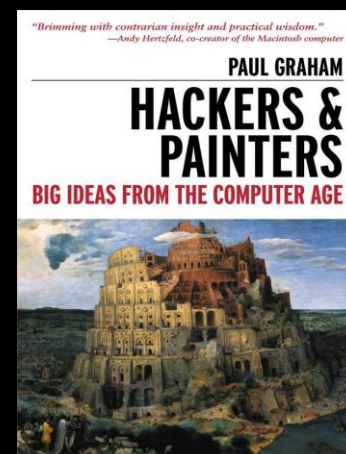
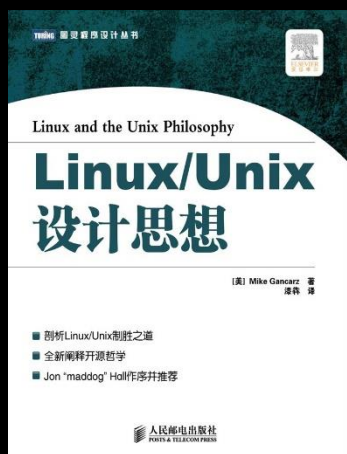
只是为了好玩 2001



若为自由故2002

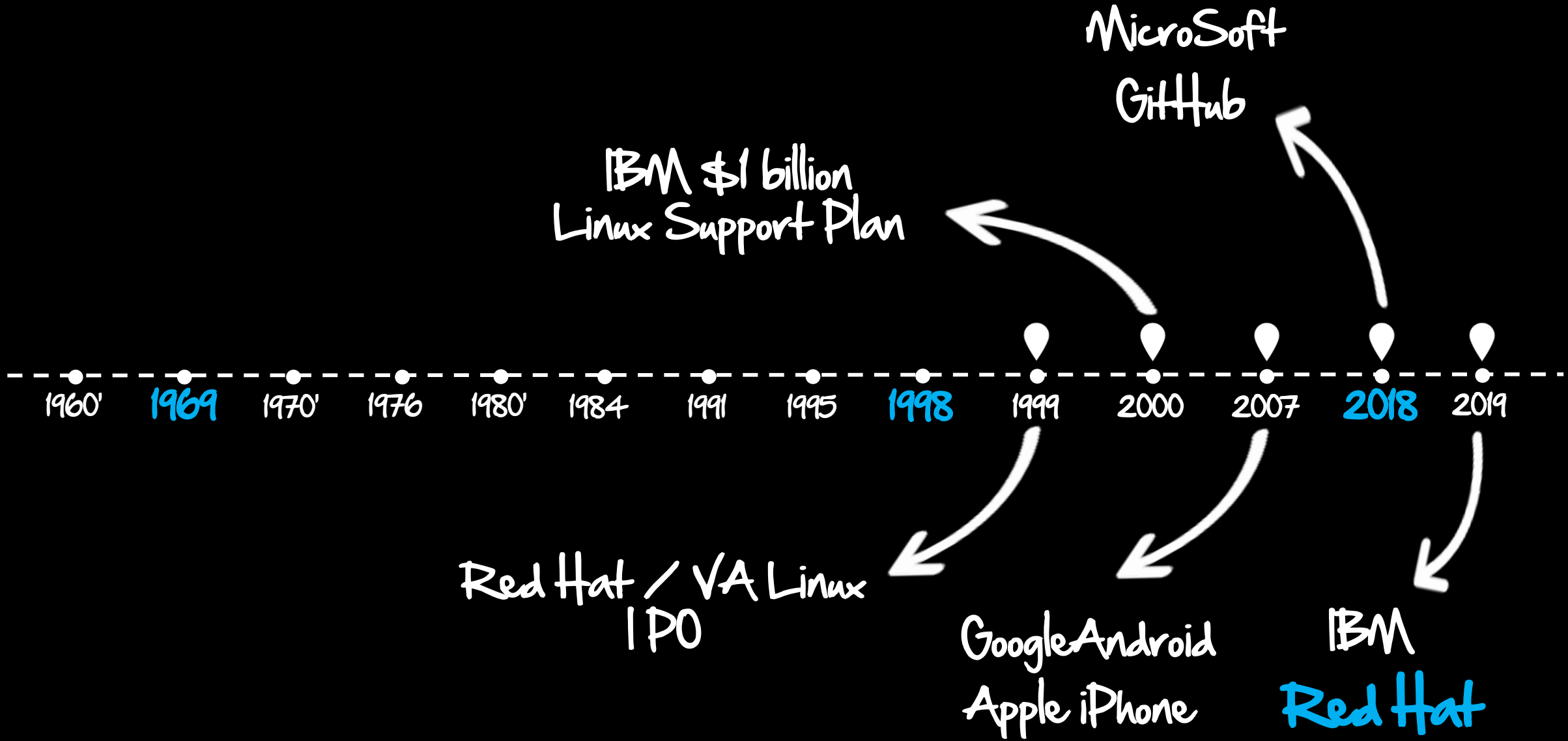
UNIX编程艺术 2003

Linux/Unix 设计思想 2003



开源的成功之路 2003

黑客与画家 2004



用户还是程序员？

CAICT 中国信通院

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THANKS