

Today we learned that computers are getting faster, programmers are working to keep programs safe from bad people, and coders use pictures to help write programs.

Making Computer Math Super Fast

242 points by zdw 12 comments

A smart person named Matt is teaching a computer to be really smart. He used Swift, the language that makes iPhone apps work. He found a way to make the computer do math way faster than before. This is important because smart computer programs need to do lots of math very quickly.

dagmx: This is a really great article! Even if you don't care about smart computer programs, it's still cool because it shows how to make computers work faster.

oflannabhra: The writer Matt Gallagher is famous for sharing good computer tips. Nice to see he still makes helpful things for people to learn from!

adrian_b: This shows how smart computer programs use special math tricks to do calculations faster. That's pretty cool!

Bad people used smart computer tools to break into programs

188 points by donohoe 139 comments

Google said bad hackers used smart computer tools to find a secret hole in a big computer program. This hole could let bad people get into computers and steal important information. Google told everyone about it so they can fix the problem. Now programmers are working to make the programs safe again.

crazygringo: Smart computers can be used by bad people to cause trouble, just like how some people use tools for bad things.

netdevphoenix: It is good that Google found out and told people so they can fix it and stay safe.

koieuo: We need good computer guards to stop bad people from using smart tools to break into programs.

Why Do We Need to Plan Before Building Programs?

37 points by surprisetalk 0 comments

When people build big programs, they need a plan first. This plan is called software architecture. It is like drawing a map before going on a trip. The map shows where different parts of the program will go. This helps people work together better. A good plan makes programs easier to fix when something breaks.

No comments yet

Bad People Tried to Put Bad Code in Developer Tools

862 points by varunsharma07 343 comments

A company that makes coding tools found out bad people tried to hack them. The bad people wanted to put harmful code into the tools that developers download. The company found the problem and fixed it. They told everyone what happened so other companies can be careful too.

cube00: Be careful when taking away computer access! Bad code can hide in secret places on your computer.

Ciantic: This shows we need to think more carefully about how we build and check our computer programs.

jonchurch_: Even trusted systems need extra protection. Bad people can find ways in if we are not careful.

Super Low Radio Waves

79 points by pinewurst 2 comments

There are special radio waves called ELF. ELF means Extremely Low Frequencies. These waves are so low that they can go through water and even underground. Big machines use very tall antennas to send these waves. Submarines underwater can receive messages this way. The antennas are huge metal towers that look like spider webs.

andai: Cool article! Here's a better picture of a big tower antenna: [wikipedia link](#)

Lapsa: In 1975, a scientist showed that special energy waves can carry sounds through the air.

WORD OF THE DAY

program /'proʊgræm/

Definition: Instructions that tell a computer what to do

History: A long time ago, 'program' meant a written plan. In the 1800s, people wrote programs for trains and machines. Then smart people taught computers to read these plans too!

Fun Fact: The first computer programs were written on paper cards with holes punched in them!

今天我们知道了电脑变得越来越快，程序员在努力保护程序安全，还有写代码的人会画图来帮忙。

让电脑数学变得超级快

242 个赞 作者: zdw 12 条评论

一个叫马特的高手在教电脑变得更聪明。他用了 Swift 这种制作 iPhone 应用的语言。他找到了让电脑计算数学题快很多的方法。这很重要，因为聪明的电脑程序需要很快地做很多数学题。

dagmx: 这是一篇超棒的文章！就算你不在乎智能电脑程序，它还是很酷，因为它展示了怎么让电脑跑得更快。

oflannabhra: 写文章的马特·加拉格尔因为分享好的电脑技巧而有名。很开心看到他还在为大家学习做有用的东西！

adrian_b: 这展示了智能电脑程序怎么用特殊的数学技巧让计算更快。很酷！

坏人用智能电脑工具闯入了程序

188 个赞 作者: donohoe 139 条评论

谷歌说坏黑客用智能电脑工具，在一个大型电脑程序里找到了一个秘密漏洞。这个漏洞可能让坏人进入电脑，偷走重要信息。谷歌把这件事告诉所有人，这样大家就能修复问题。现在程序员们正在努力让程序重新变得安全。

crazygringo: 智能电脑可能被坏人用来搞破坏，就像有些人用工具做坏事一样。

netdevphoenix: 谷歌发现并告诉大家是好事，这样大家可以修复问题，保持安全。

koieuo: 我们需要好的电脑保安，阻止坏人用智能工具闯入程序。

为什么写程序之前要先画图？

37 个赞 作者: surprisetalk 0 条评论

人们写大程序之前，需要先画一个图。这个图叫做软件架构。就像去旅行前先画地图一样。地图会显示程序的不同部分放在哪里。这样大家合作会更方便。好的计划让程序出问题的时候更容易修好。

暂无评论

坏人想往开发工具里放坏代码

862 个赞 作者: varunsharma07 343 条评论

一个做编程工具的公司发现坏人想黑进他们的系统。坏人想把有害代码放进开发者下载的工具里。这家公司发现了问题并修好了它。他们告诉大家发生了什么，这样其他公司也能小心。

cubeoo: 取消电脑权限时要小心！坏代码可能藏在你电脑的秘密地方。

Ciantic: 这说明我们需要更仔细地思考如何构建和检查我们的电脑程序。

jonchurch_: 即使是被信任的系统也需要额外保护。如果不小心，坏人总会找到方法进来。

超低的无线电波

79 个赞 作者: pinewurst 2 条评论

有一种特别的无线电波叫 ELF。这种波非常低，可以穿过水，甚至可以穿过地下。大的机器用很高的天线来发送这些波。水下的潜水艇可以收到这些信息。天线是很大的金属塔，看起来像蜘蛛网一样。

andai: 很棒的文章！这里有一张更好看的天线图片。

Lapsa: 1975 年，一位科学家证明特殊的能量波可以携带声音穿过空气。

今日单词

program /ˈproʊɡræm/

解释：告诉电脑要做什么的步骤说明

历史：A long time ago, 'program' meant a written plan. In the 1800s, people wrote programs for trains and machines. Then smart people taught computers to read these plans too!

趣闻：最早的电脑程序是写在纸卡上的，卡上有很多小孔洞！