

http://www.esquire.com/blogs/chris-jones/danny-hillis-inventor-1210

This Man Is Changing the Way We Solve Problems — and Maybe the Way We Make Magazines

By Chris Jones

Danny Hillis, with his giant robot dinosaurs and magical terrain tables, is the first subject of mine who's ever defied written description. Walking through his Applied Minds lab in Los Angeles earlier this fall, I was stunned by the scope of invention, by the limitlessness behind those ordinary-seeming walls. Any one of his projects would be worth a story, but there were literally hundreds. A 10,000-year clock? A cure for cancer? *Giant robot dinosaurs?* How was I going to do justice to him and his brain? How was I going to explain to our readers how that kind of mind works?

And then I saw them, scattered around his office — his sketches and doodles and hand-written notes. That's how, I decided.

I sat under the dinosaur and began to draw.

I love drawing. I love the feel of paper with its different weights and textures. I love maps and comics and the sound that a pencil makes. I believe in my heart that there will be an anti-digital revolution someday, that we'll return to newspapers and printing presses and beautiful hand-bound works of art. I refuse to believe that the last people on earth reading real books will be the blind. I refuse to believe that, for the rest of my life, words will be dependent on batteries and tiny fucking sticks.

Which is part of the reason we decided to do my profile of him for this year's Best and Brightest package by hand. I wanted it to be a defense of paper, to represent the triumph of analog.

Of course, unless we're Danny Hillis, the things we see in our heads don't always come out the way we hoped they might. When I first pictured the five pages you see reproduced below, I saw myself tearing five perfect pages out of my sketchbook and simply scanning them into the magazine. I wasn't thinking about the necessities of modern magazine-making, of copy editing and fact-checking and, you know, legibility.

Those things meant that each part of the story — each snippet of text, each illustration, each arrow or circle or square — had to be done separately. Darhil Crooks, our art director, after looking at me the way people look at puppies that just pissed on the carpet, ended up scanning maybe seventy or eighty of my little sketches and scribbled sentences and began assembling those pieces into a larger whole. Once, I had to draw a single comma on a scrap of tracing paper and file that into the machine. Darhil had to erase the smudges from my pencil. It felt, late at night, something like manual labor.

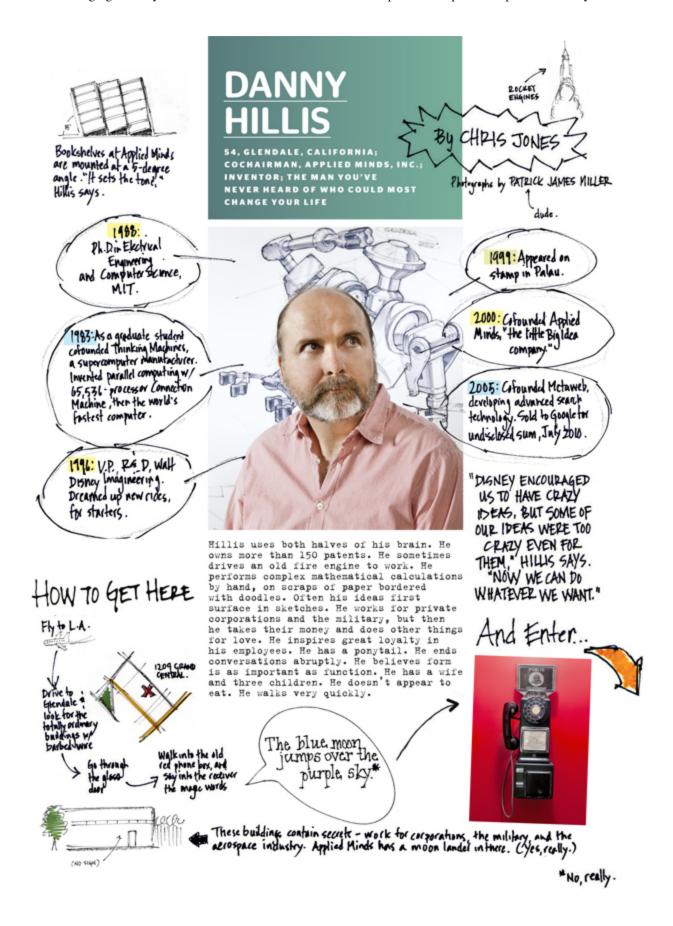
Is that the future of magazines?

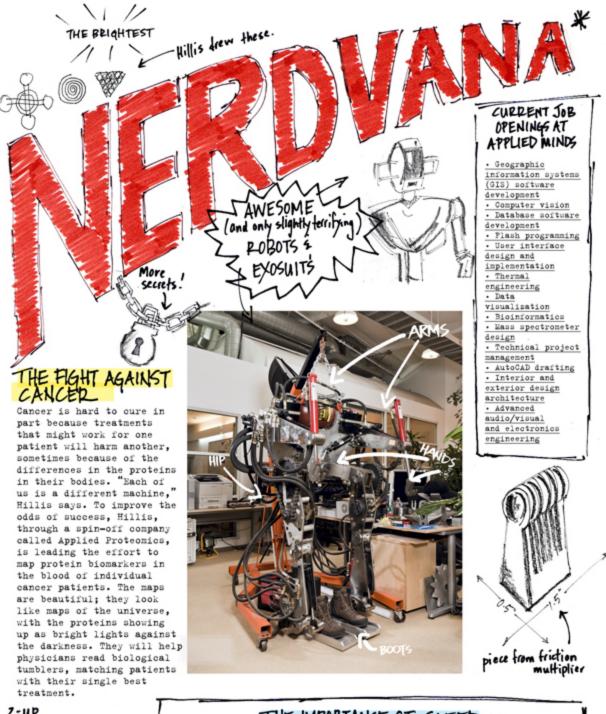
Probably not. It's too much work, for us and for you.

But I hope, at least, that these pages demonstrate the continued possibilities of print. I hope they

reflect the limitlessness I saw in Los Angeles. I hope they inspire someone, somewhere, to dust off their Gestetner or their Underwood, to transmit ink onto paper without the aid of a goddamn laser....

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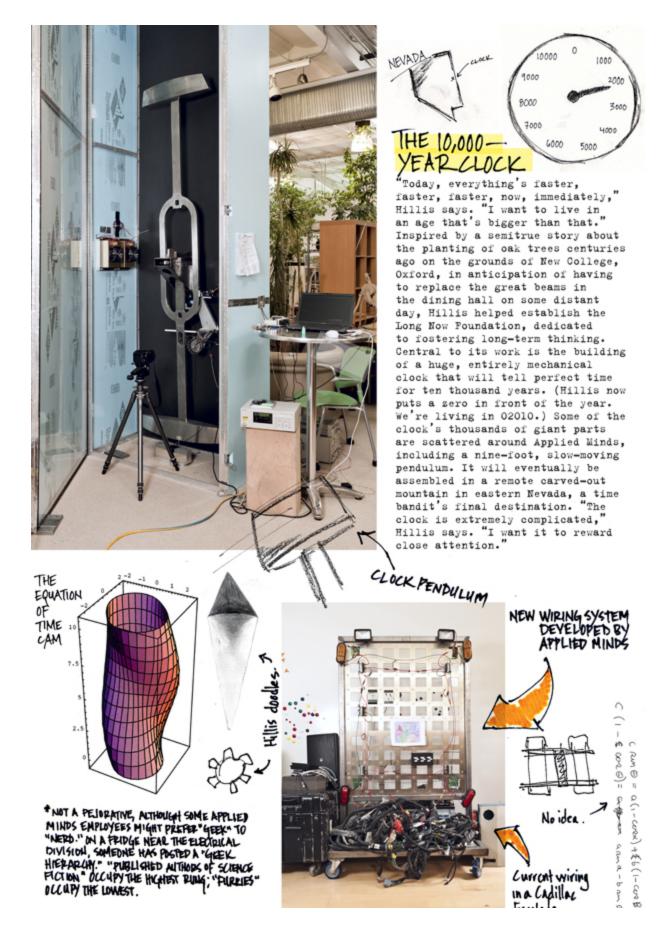


Z=UP

Y= NORTH
LEFT

X EAST
FWD.

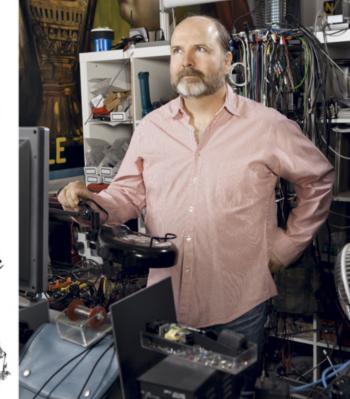
THE IMPORTANCE OF SLEED
HILLIS'S TIME IS SCHEDULED MONTHS IN ADVANCE, BUT
HE MAKES SLEED A PRIORITY "I PROBABLY SLEED MORE
THAN MOST PEOPLE . THAT'S WHEN I GET A LOTOF MY WORK
DONE. I'LL GO TO SLEED WITH A PROBLEM AND WAKE UP
WITH THE SOLUTION," HE SAYS.



In a controversial essay published in May 1999, Hillis predicted that the YZK bug was a figurent. "But then I worry about things no one else seems to wary about," he says. "Like the Internet crashing. I think that's a real possibility."

THE BEIGHTEST

There are few divisions within Applied Minds. Employees work on several projects at the same time, and they're free to offer suggestions to their most different - seeming colleagues. Chillix isn't a fanof specialization: "I think the essence of imagination is a lack at focus.") That allows for a kind of free wheeling approach to new ideas. If they work, areat, if they don't, "nobody's afraid to kill them," he says, "because every body is working or more than one thing."



A TERPAIN
TABLE: LIKE
GOOGLE MAPS
BUT WITH PELIEF,
MOUNTAINS AND
VALLEYS FORMING W/
THE PUSH OF A BUTTON.

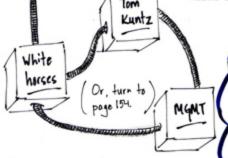
N EVERY CORNER: MADNESS ! MIRACLES



The Applied Winds creation that will soon filter into your daily life. Rather than using words as the basis of an Internet search-tricky, because the same word can refer to so many different things—Metaweb is built on "entities": more than twelve million people, places, or things that have been carefully documented around the world. As a bonus, how those entities connect to one another has also been coded. That means Metaweb can answer more complicated questions, faster, than other search engines can—which is probably why Google bought Metaweb in July.

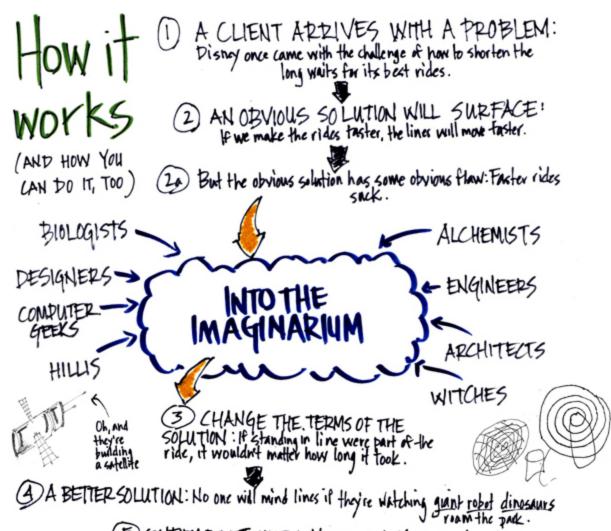
METAWER





THE BIRTH OF AN IDEA

Hillis traces the birth of Metaweb to a science-fiction
novel he read, The Diamond Age, by Neal Stephenson. The
trotagonist, ayoung girl, receives a book called the Young
Lady's Mustraled Primer. "It teaches the reader exactly
what she needs to know when she needs to know it—a
perfect, tailor-made education. That was Hollis's inspiration.
That's Metaweb," he says.



5 CONFIRM BELIEF THAT ANYTHING IS TOSSIBLE again and again.



GIANT ROBOT DINOSAURS W/ EXQUISITELY DELICATE TOUCH SO AS NOT TO KILL THE KIDS . (IT STILL SCARED THE SNOT OUT OF THEM, SO DISMEY DEMURRED.) THERE'S ONE OUTSIDE HILLS'S OPPICE. LIFE-SIZE. SPECTACULAR. (ITS CONSTRUCTION IS A SECRET, BUT HERE'S A PICTURE OF ITS RIGHT KHEE JOINT.)

"For me, in some ways, I have a clearer view of the future than I have of this chair I'm sitting on," Hillis says. "It's a perfect place. There are no compromises. Everything is beautiful. The future has no constraints. And the present...is the present. My job is to reconcile those two worlds--knowing all the while that the future isn't some target, some destination, WE ARE HERE. Because if you're thinking the right way, by the time you get there, you'll want to be somewhere else. Somewhere even better."



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