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Fast-growing hierarchy diagonalization

followed by $F_{\omega}(s)$. And this ride just doesn't stop, because you go through the whole infinite sequences of infinite sequences of infinite sequences of infinite sequences of infinite sequences, increasing the subscript of e to the absurd point of ε . And then we can repeat that, and repeat it again, and again, infinitely many times, creating a subscript tower where ε has a subscript of ε from the subscript of ε to the subscript of ε to the suscript of $\dots$ - infinitely many times. At this point, the notation becomes too unwieldy again, so we continue with the use of another Greek letter: ζ , where it starts all over again. And we can do this infinite recursion again indefinitely, until we have a subscript tower of ς , after which we can name the next feature in the series η . Every Greek letter represents an absolutely gigantic leap, from ε to ζ to η . But as you can see it is getting more complicated to talk about these FGH features. Enter the Veblen hierarchy. The Veblen hierarchy begins with $\phi(a)=\omega a$, and then increases with each subscript to a new Greek letter from the past. So: $\phi_{\beta}=\omega a$ $\phi_{\beta}(a)=\varepsilon a$ $\phi_2(a)=\gamma a$ $\phi_3 a)=\eta a$ This FGH grows much faster than the previous one, because it skips all infinite repetitions to the final tetration of each Greek letter, which describes it as the next Greek letter in the series. The Veblen Hierarchy is growing fast. The subscript can get bigger and bigger, reaching $\phi_e(a)$, where e is randomly large. You follow this by making the next subscript in the series, then follow the same recursive extension as before until you get to $\omega \uparrow\uparrow \omega$, which we would determine as ε . And go through the Greek letters, one by one, until you've gone through an infinite number of them, after which we can use ϕ as the subscript for ϕ . Then do this over and over again, with additional ϕ as a subscript for each ϕ , until you have an infinite subscript tower of ϕ , after which you have to replace a new format: Γ . Γ is as far as you go using recursion and diagonalization. It is the point at which we can return as much as possible and make as much diagonal as possible. But we can move on. We already see Γ as $\phi(a,0)=a$. Let's expand veblen's format function by defining $\phi(1,0,0)=\gamma$. Adding this extra variable let's go beyond all the recursion and diagonalization we could do earlier. Now we have all that, and can just add 1. Let's explore this order: $\gamma=\phi(1,0,0)$ Start here. $\gamma_1=\phi(1,0,1)$ the last digit repeatedly, $\gamma\omega=\phi(1,0,\omega)$ Eventually you reach ω . The following is the following ordinal $\phi(1,1,0)$. As you see, we have a new variable to work with. We can keep raising the correct figure until we get back to ω , after which we reach $\phi(1,2,0)$. And we can do this over and over again, until we reach $\phi(1,\omega,0)$. Then the next ordinal would be $\phi(2,0,0)$. And we can continue, more and more until we get to $\phi(\omega,\omega,\omega)$. Right now, we're stuck again. That is, until we add an additional variable. So now we have $\phi(1,0,0,0)$ as the next ordinal. And we can make the most of this again until we have to add another variable, and then another variable, and so on, until we have infinite variables. This is called the Little Veblen Ordinal. $\psi(\Omega\Omega\Omega)=\phi(1,0,\dots,0,\omega)$ Under FGH features, the Kleine Veblen Ordinal is in the lower attic of Cantor's Attic. It's not even the fastest growing feature on the page on which it's listed. We're far from the top, despite all this work. Of course there's no top -- not really. But what I mean is that we're not near the top of what mathematicians talk about when they're working with really big ordinals. You might notice that at no time did I mention TREE (3), which was one of the songs I brought up in my last blog post. That's because the TREE function goes far beyond what I wrote here. You need to keep climbing, adding new ways to faster and faster growing features before you do anything like TREE(3). Furthermore, SSCG(3) is absurdity. And these are all still huge under the Church Kleene Ordinal, which (despite being countable) is indisputable. This is where you end up in the Busy Beaver feature. The distances between each of these features I mentioned in this paragraph are absurdly long. It took so long to explain to the Little Veblen Ordinal, and yet it would take just as long to get to the TREE() function. And then just as long to get to SSCG(). And just as long to Busy Beaver. I want to be clear: I'm not saying they're equal distances from each other. I'm saying it would take the same amount of time to explain them. At every step of my explanation, I've gotten to absurdly faster and faster growing features, jumping from concept to concept faster than I was any entitled to. And I would explain that much faster if I kept going, using steno to handwave away huge leaps in logic. And yet it would still take so long to explain to these points. Points.

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