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Who Has the Cure for “Zombie Formalism”?



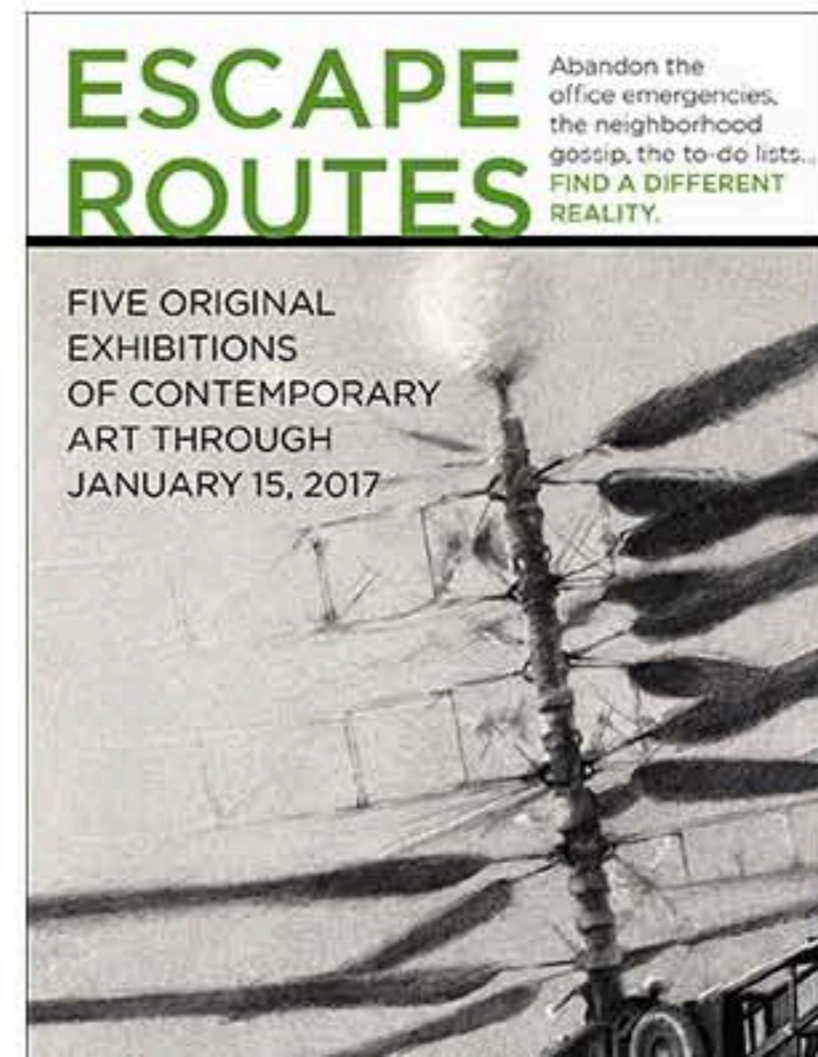
Howard Hurst

December 17, 2014

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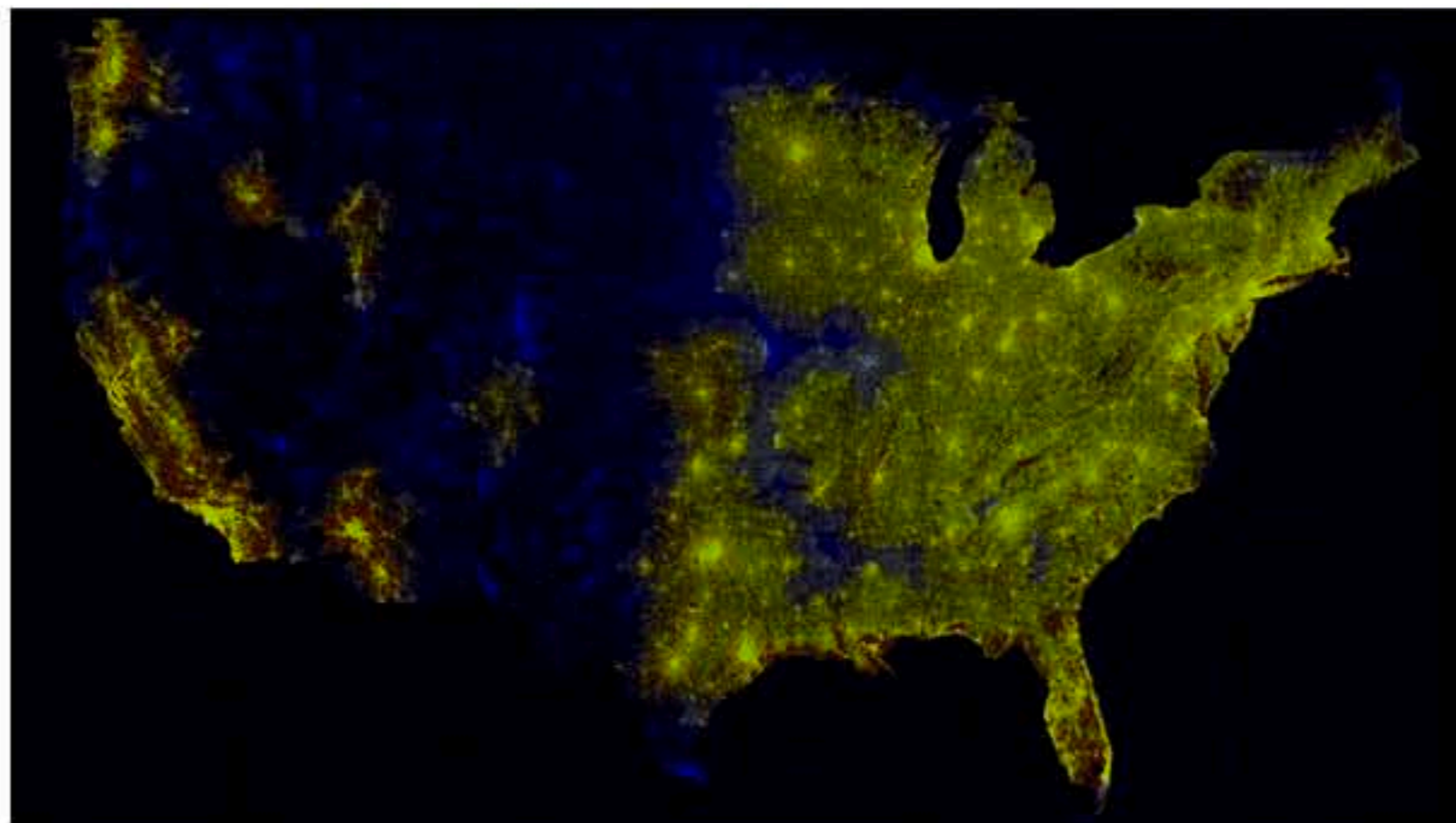
Mapping the zombie apocalypse

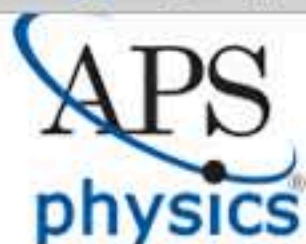
March 5, 2015

Spurred by the prominence of zombies in movies, books and even college courses, physics doctoral student Alex Alemi, a statistician, built a statistical model to determine what a "realistic" outbreak of zombies might be like - using techniques used to predict disease outbreaks. He and other Cornell researchers will [present their work](#) this week to the American Physical Society.

[Alemi told the Washington Post](#), "Zombies are unique and very different than other diseases in that victims of other diseases either get better or succumb to the disease. But zombies are the undead. They don't get better. And the only way to stop them is for a human to kill the zombie. With other diseases, no matter how many infections you model, the disease is not going to infect every single person. But in the zombie model, you really can turn every single person into a zombie."

Use Alemi's [interactive model](#) to design a zombie outbreak anywhere in the United States.





Bulletin of the American Physical Society

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APS March Meeting 2015

Volume 60, Number 1**Monday–Friday, March 2–6, 2015; San Antonio, Texas**

Session S48: Focus Session: Physics of Evolutionary and Population Dynamics I

8:00 AM–11:00 AM, Thursday, March 5, 2015

Room: 217C

Sponsoring Unit: DBIO

Chair: Michel Pleimliung, Virginia Tech University

Abstract ID: BAPS.2015.MAR.S48.8

Abstract: S48.00008 : The Statistical Mechanics of Zombies

9:24 AM–9:36 AM

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Authors:

Alexander A. Alemi
(Cornell University)Matthew Bierbaum
(Cornell University)Christopher R. Myers
(Cornell University)James P. Sethna
(Cornell University)

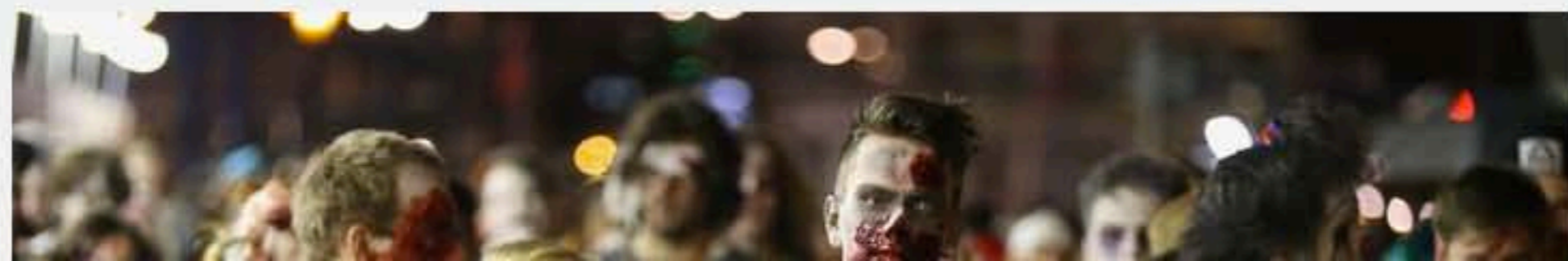
We present results and analysis from a large scale exact stochastic dynamical simulation of a zombie outbreak. Zombies have attracted some attention lately as a novel and interesting twist on classic disease models. While most of the initial investigations have focused on the continuous, fully mixed dynamics of a differential equation model, we have explored stochastic, discrete simulations on lattices. We explore some of the basic statistical mechanical properties of the zombie model, including its phase diagram and critical exponents. We report on several variant models, including both homogeneous and inhomogeneous lattices, as well as allowing diffusive motion of infected hosts. We build up to a full scale



The zombie simulator is based on a real-life **disease model known as SIR** (which stands for "susceptible, infected, and resistant"). The researchers developed simulations based on variables like how fast zombies move, how often humans kill them, and how often bites occur. The team is **presented its results** at the 2015 American Physical Society March Meeting.

"Modeling zombies takes you through a lot of the techniques used to model real diseases, albeit in a fun context," Alemi **said** in a statement. "Each possible interaction — zombie bites human, human kills zombie, zombie moves — is treated like a radioactive decay, with a half-life that depends on some parameters, and we tried to simulate the times it would take for all of these different interactions to fire, where complications arise because when one thing happens it can affect the rates at which all of the other things happen."

A lot depends on zombie speed and the "bite-to-kill" ratio



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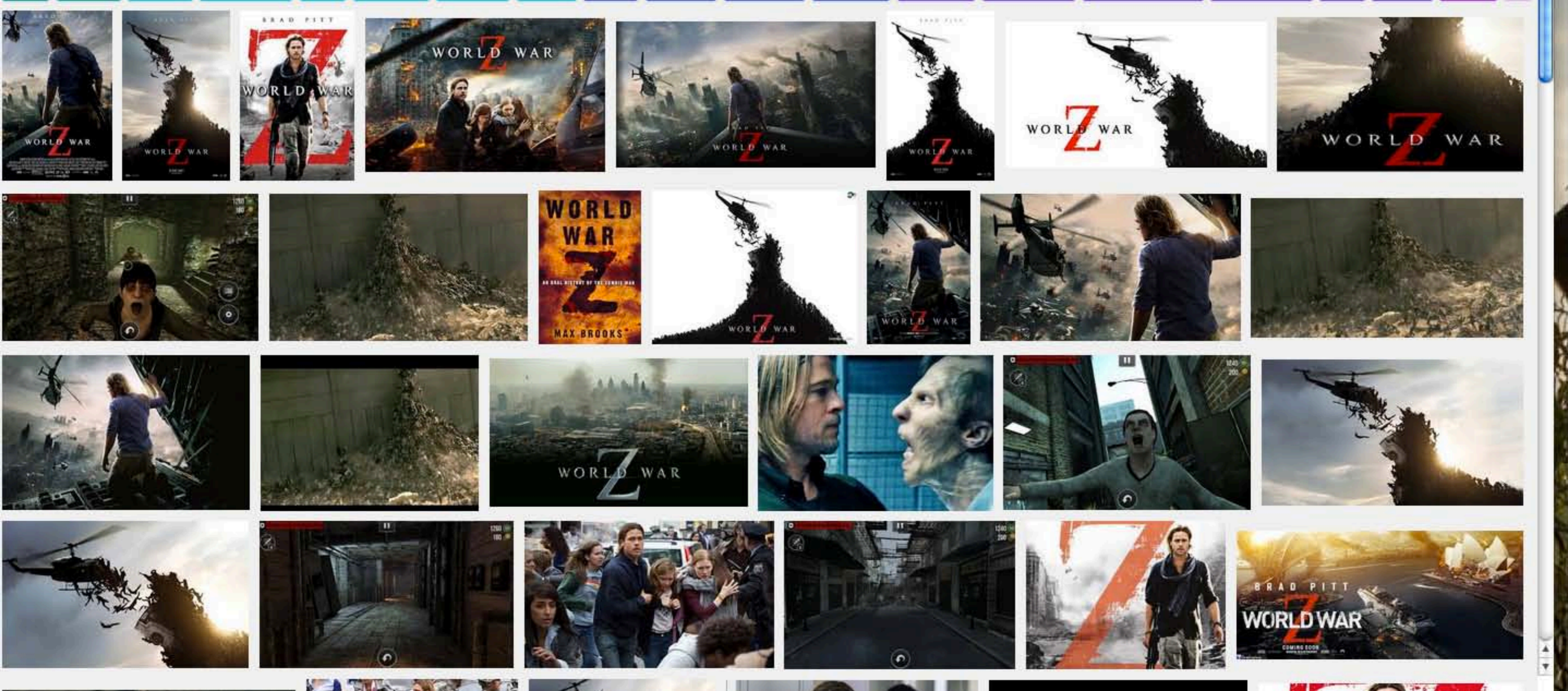
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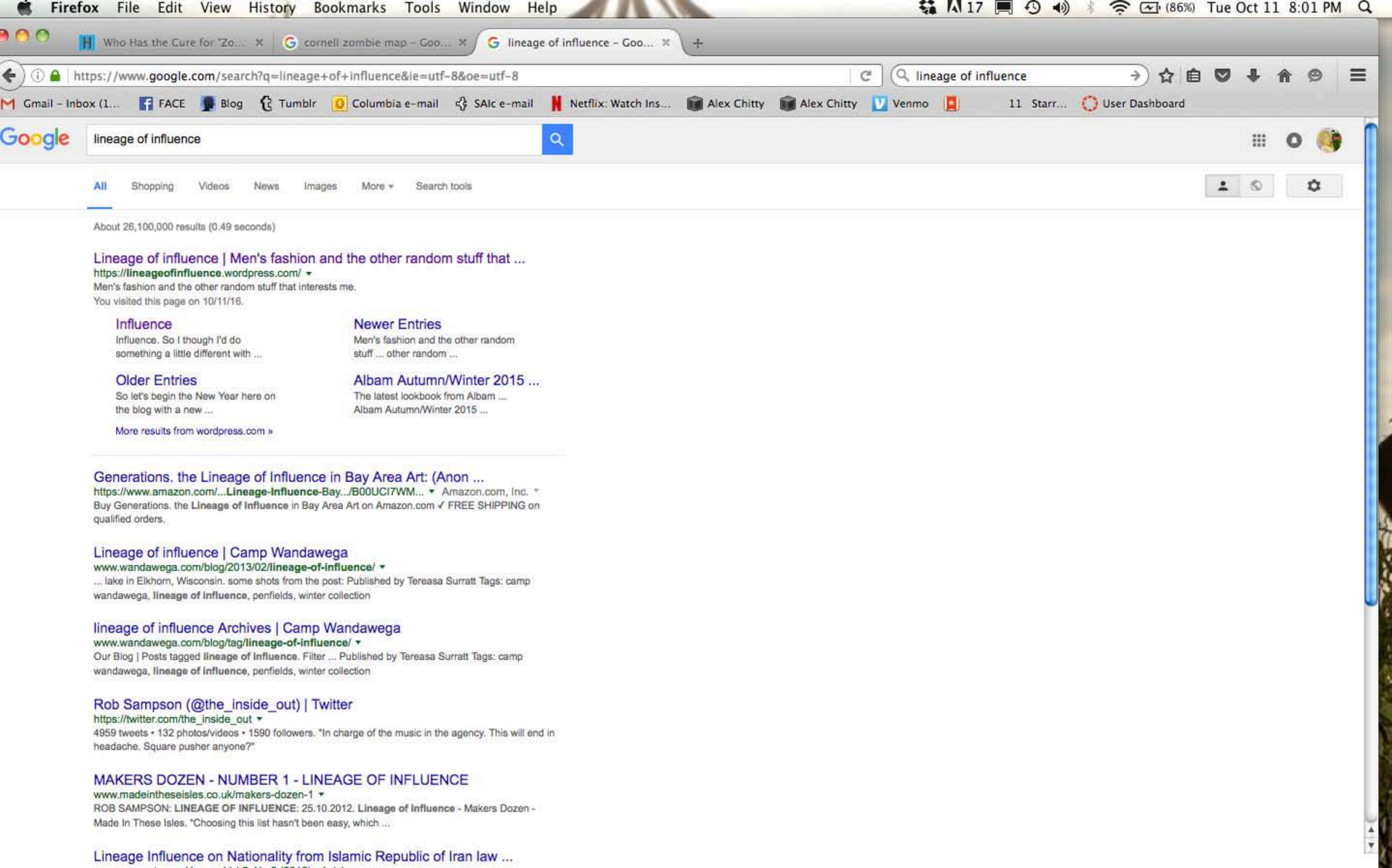
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IDEAS & TRENDS
IDEAS & TRENDS; How Fashion Spreads Around the World At the Speed of Light

By WOODY HOCHSWENDER
Published: May 13, 1990

WHEN Americans think of the apparel industry in the Far East, it is natural to think of dilapidated factories with rows of poorly paid workers sweating over antiquated machinery.




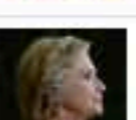


The reality, in southern China at least, is much less depressing and far more compelling for what it reveals about the interconnected world enterprise that is fashion. Apparel manufacturing now involves high-speed links between peoples of vastly different cultures and political systems, who interact through facsimile machines, computers and even high-definition television to meet the conflicting, ever-changing demands of the human species for the raiments of status and seduction.

In a clean, well-lighted factory in Foshan, China, just outside the city of Canton, rows of young women sew dresses, blouses and skirts for a variety of American clothing companies, including The Limited, the largest retail chain in the United States, with more than 3,200 stores, including The Express, Lerner's, Lane Bryant and Victoria's Secret.

The Limited, which has consistently reported double-digit sales increases even in sluggish retailing seasons, built its success on its ability to translate quickly the latest runway fashions into less expensive merchandise. The Limited's mass merchandisers can take the newest trend from Paris or New York and place cheaper versions in its stores weeks before the original designs are produced.

The development of facsimile technology greatly abetted this process. The fax became the lingua franca of international fashion, dispensing gossip along with the latest hemlines.

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Who Cares What Jefferson Thought About Copyright?

posted October 17, 2011 by Terry Hart.

A letter written by Thomas Jefferson to Isaac McPherson in 1813 has become canonized into the copyright skepticism movement. You're probably familiar with [the letter](#), which reads in part:

If nature has made any one thing less susceptible than all others of exclusive property, it is the action of the thinking power called an idea, which an individual may exclusively possess as long as he keeps it to himself; but the moment it is divulged, it forces itself into the possession of every one, and the receiver cannot dispossess himself of it. Its peculiar character, too, is that no one possesses the less, because every other possesses the whole of it. He who receives an idea from me, receives instruction himself without lessening mine; as he who lights his taper at mine, receives light without darkening me.

It's easy to see why this particular letter is valued so much by copyright's critics — it expresses sentiments they agree with and it is written by a Founding Father, giving it the weight of authority. One gets the sense from reading those that quote this letter that it presents a sort of idealized version of copyright, one that current copyright law has long since forgotten.²

Despite the sacrosanct nature that this letter has been given, there are some serious problems with it being considered a foundational document in copyright law.

He was talking about something else

For starters, Jefferson was expressly talking about patents, not copyright. It's odd that the letter is used at all when discussing copyright because of this fact, but it is.³ Though the two share similarities — for example, Congress's power to make laws concerning both stems from the same Constitutional clause, and Congressional practice concerning one can inform the other⁴ — the differences between them are more relevant here.

On the one hand, it can be said that a patent protects *ideas* embodied in a new invention or process. Though a patent can't protect an abstract idea by itself, nor take a known idea out of the public domain,⁵ it does foreclose the use of the ideas described in the invention's claims.⁶ This tension between patent protection and the free flow of ideas is inherent in patent law. Jefferson's description of the nature of ideas in the letter reflects his concerns over this tension, especially in light of the argument that inventors have a natural right to their inventions that Jefferson refers to at the beginning of the letter.

Copyright, on the other hand, protects *expression*, not the underlying facts or ideas embodied in that expression.⁷ Copyright protection and the free flow of ideas are fully congruent — and, in fact, by providing an incentive to disseminate expression of ideas, copyright protection encourages the contribution of new ideas into the public domain.

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Edit links

Asexual propagation [edit]

Plants have a number of mechanisms for asexual or [vegetative reproduction](#). Some of these have been taken advantage of by [horticulturists](#) and gardeners to multiply or [clone](#) plants rapidly. People also use methods that plants do not use, such as [tissue culture](#) and [grafting](#). Plants are produced using material from a single parent and as such there is no exchange of genetic material, therefore vegetative propagation methods almost always produce plants that are identical to the parent. Vegetative reproduction uses plants parts such as roots, stems and leaves. In some plants seeds can be produced without fertilization and the seeds contain only the genetic material of the parent plant. Therefore, propagation via asexual seeds or [apomixis](#) is asexual reproduction but not [vegetative propagation](#).

Techniques for vegetative propagation include:

- [Air or ground layering](#)
- [Division](#)
- [Grafting](#) and [bud grafting](#), widely used in [fruit tree propagation](#)
- [Micropropagation](#)
- [Stolons](#) or runners
- [Storage organs](#) such as [bulbs](#), [corms](#), [tubers](#) and [rhizomes](#)
- [Striking](#) or cuttings
- [Twin-scaling](#)
- [Offsets](#)



Softwood stemcuttings rooting in a controlled environment

Heated propagator [edit]

A heated propagator is a [horticultural](#) device to maintain a warm and damp environment for [seeds](#) and [cuttings](#) to grow in.

This can be in the form of a clear enclosed bin sitting over a hotpad, or even a portable heater pointed at the bin. The key is to keep the moisture in the clear bin, while keeping lighting over the top of it, usually.

Seed propagation mat [edit]

An [electric seed-propagation mat](#) is a heated [rubber](#) mat covered by a metal cage which is used in [gardening](#). The mats are made so that planters containing [seedlings](#) can be placed on top of the metal cage without the risk of starting a [fire](#). In extreme cold, gardeners place a loose plastic cover over



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Grafting

From Wikipedia, the free encyclopedia

This article is about plant grafting. For other uses, see [Graft \(disambiguation\)](#).

Grafting or **graftage**^[1] is a [horticultural](#) technique whereby [tissues](#) of [plants](#) are joined so as to continue their growth together. The upper part of the combined plant is called the **scion** while the lower part is called the **rootstock**. The success of this joining requires that the vascular tissue grow together and such joining is called [inosculation](#). The technique is most commonly used in [asexual propagation](#) of commercially grown plants for the [horticultural](#) and [agricultural](#) trades.

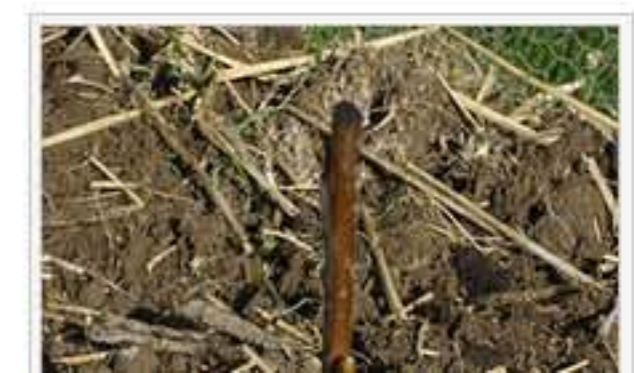
In most cases, one plant is selected for its [roots](#) and this is called the **stock** or [rootstock](#). The other plant is selected for its [stems](#), [leaves](#), [flowers](#), or [fruits](#) and is called the **scion** or **cion**.^[1] The scion contains the desired [genes](#) to be duplicated in future production by the stock/scion plant.

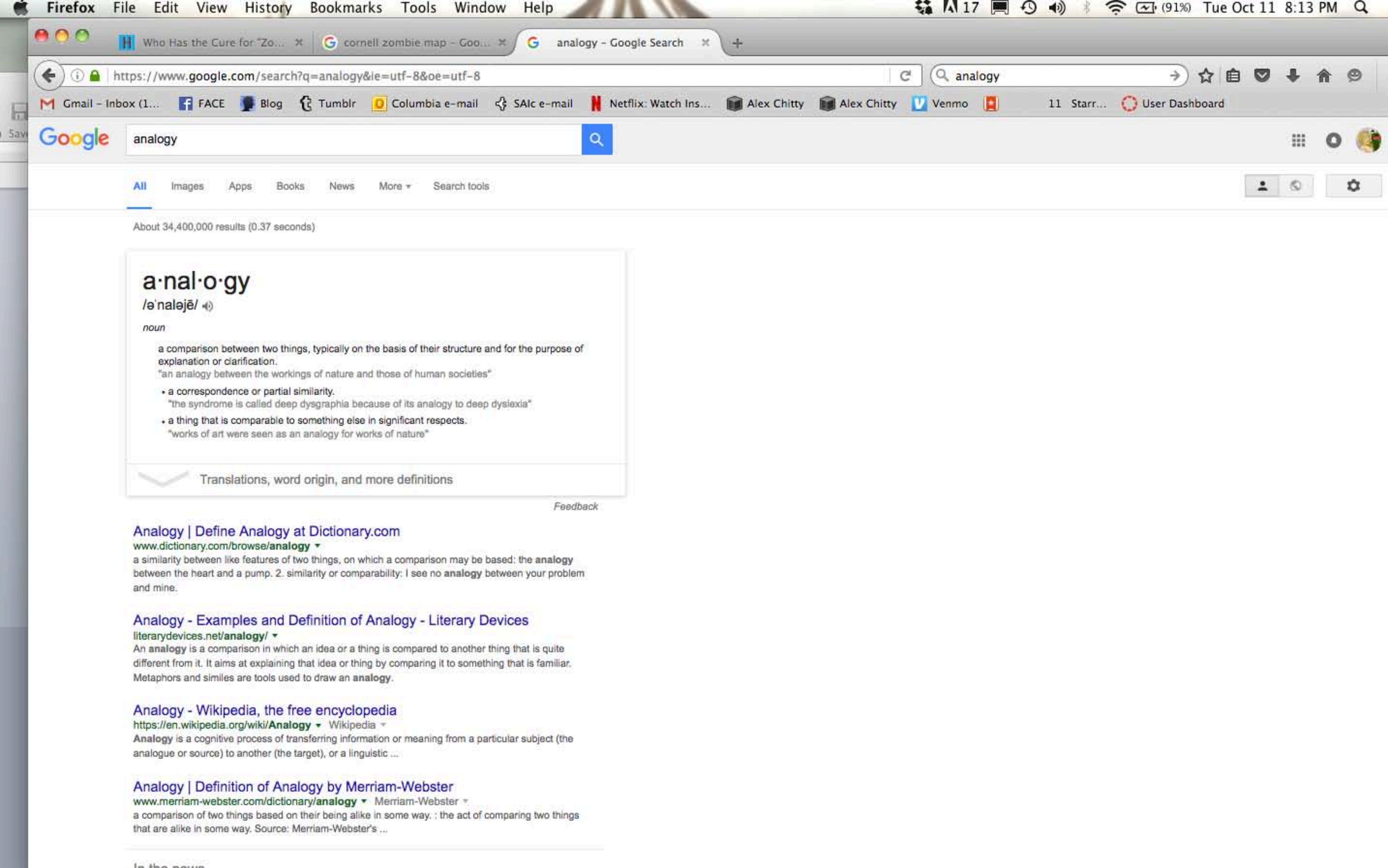
In stem grafting, a common grafting method, a [shoot](#) of a selected, desired plant [cultivar](#) is grafted onto the stock of another type. In another common form called bud grafting, a dormant side bud is grafted onto the stem of another stock plant, and when it has [inosculated](#) successfully, it is encouraged to grow by [pruning](#) off the stem of the stock plant just above the newly grafted bud.

For successful grafting to take place, the [vascular cambium](#) tissues of the stock and scion plants must be placed in contact with each other. Both tissues must be kept alive until the graft has "taken", usually a period of a few [weeks](#). Successful grafting only requires that a vascular connection take place between the grafted tissues. Joints formed by grafting are not as strong as naturally formed joints, so a physical weak point often still occurs at the graft because only the newly formed tissues inosculate with each other. The existing structural tissue (or wood) of the stock plant does not fuse.



Cherry tree, consolidated "V" graft





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a·nal·o·gy

/əˈnələjē/

noun

a comparison between two things, typically on the basis of their structure and for the purpose of explanation or clarification.

"an analogy between the workings of nature and those of human societies"

- a correspondence or partial similarity.
"the syndrome is called deep dysgraphia because of its analogy to deep dyslexia"
- a thing that is comparable to something else in significant respects.
"works of art were seen as an analogy for works of nature"

Translations, word origin, and more definitions

Feedback

Analogy | Define Analogy at Dictionary.com

www.dictionary.com/browse/analogy

a similarity between like features of two things, on which a comparison may be based: the **analogy** between the heart and a pump. 2. similarity or comparability: I see no **analogy** between your problem and mine.

Analogy - Examples and Definition of Analogy - Literary Devices

literarydevices.net/analogy/

An **analogy** is a comparison in which an idea or a thing is compared to another thing that is quite different from it. It aims at explaining that idea or thing by comparing it to something that is familiar. Metaphors and similes are tools used to draw an **analogy**.

Analogy - Wikipedia, the free encyclopedia

<https://en.wikipedia.org/wiki/Analogy>



Analogy is a cognitive process of transferring information or meaning from a particular subject (the analogue or source) to another (the target), or a linguistic ...

Analogy | Definition of Analogy by Merriam-Webster


www.merriam-webster.com/dictionary/analogy

a comparison of two things based on their being alike in some way. ; the act of comparing two things that are alike in some way. Source: Merriam-Webster's ...

school city cave factory restaurant kitchen math science advertising business literature architecture car good cell farm boat animal cell plant cell eukaryotic cell base




Types of Analogies	
Part to whole	battery : flashlight :: hard drive : computer
Cause and effect	fatigue : yawning :: itching : scratching
Person to situation	mother : home :: teacher : school
Synonym	obese : fat :: slender : thin
Antonym	poverty : wealth :: sickness : health
Geography	Chicago : Illinois :: Denver : Colorado
Measurement	pound : kilograms :: quart : liter
Time	March : spring :: December : winter



A definition...

An analogy is a comparison between two things, and the comparison is used to determine the relationship between different sets of things.

Bark is to dog as meow is to cat.







ANALOGIES
at pppst.com

appalling : pleasing :: interesting : _____

A. amusing
B. engaging
C. enthralling
D. boring





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March 11, 2013

Analogies and Innovation

By Stephen F. DeAngelis

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The world is a complicated place that only gets more complex as new knowledge is created. How often have you listened to someone talking about a subject you are unfamiliar with and said to yourself, "I haven't a clue what they're talking about." Frankly, it's difficult to explain a totally new concept in a way that most people will understand. That is why analogies play such a vital role in our lives. An analogy points out similarities between like features of two things so that comparisons can be made and understanding fostered. Good analogies paint a picture or tell a story that conjures up clear images in a listener's mind. Near the end of Vietnam War, for example, Henry Kissinger penned a memo to President Richard Nixon on the subject of troop withdrawal. He wrote, "Withdrawal of U.S. troops will become like salted peanuts to the American public; the more U.S. troops come home, the more will be demanded." Analogies can provide simple, straight forward comparisons — for example, the human heart is like a pump.

If you're like me, you may be confused when people talk about analogies, similes, and metaphors. One of the best explanations I've read comes from [Your Dictionary.com](#), which is where I found the Kissinger example. The website explains: "Some analogies are

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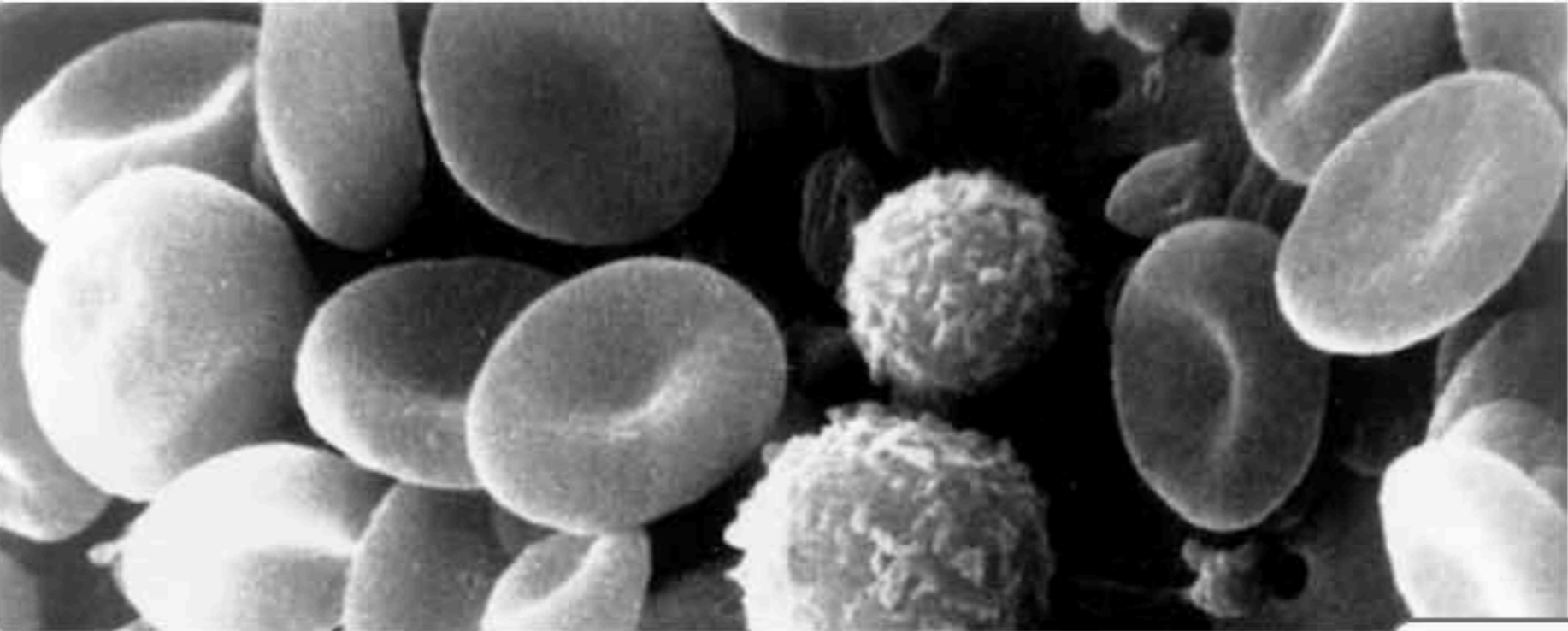
The heart is a double pump

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Magnified view of blood cells in the human body (Photo courtesy of National Cancer Institute)

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