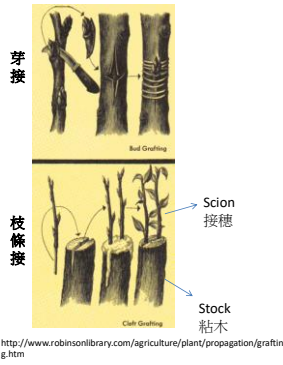


Grafting (嫁接)



為何要嫁接

抗生物或非生物性逆境

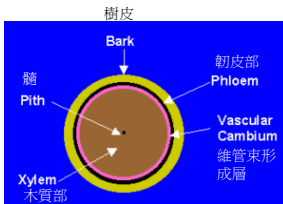
改良品種

縮短幼年期: (柑橘類)

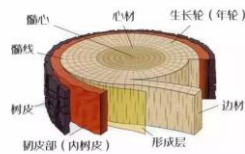
觀賞用: (仙人掌)

研究用: (分子的長途運輸)

市場買來的果樹苗嫁接位置會膨大



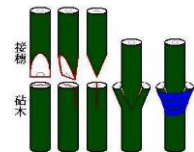
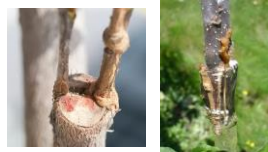
<https://geneticliteracyproject.org/2015/02/10/the-original-frankenfoods/>



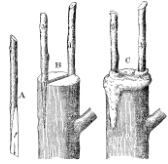
<https://3g.163.com/news/article/CSCFF83U05148J2D.html>



<https://www.aliexpress.com/Item/Self-adhesive-agricultural-fruit-tree-belt-Grafting>



<https://blog.sina.com.cn/juan310/?wblog/192742736-%E6%B2%B9%E6%BC%AD%E7%8E%AB%E7%91%B0%E5%AB%81%E6%BE%A5>



mage from: http://etc.usd.edu/clipart/23600/23677/cleft_graft_23677.htm

Why grafting is the secret to great fruit and vegetables



<https://www.telegraph.co.uk/gardening/howtogrow/fruitandvegetables/>

Worldwide Vineyards



<http://www.worldwide-vineyards.com/en/>

Tomato grafting



Welcome to Cranky Puppy Farm!
<http://crankypuppy.blogspot.com/2013/03/my-notes-from-tomato-grafting-class.html>



<https://www.facebook.com/fruitaladtree/>



<https://www.facebook.com/fruitaladtree/?them=it-a-fruit-salad-tree-that-sprouts-9-to-7-fruits-in-the-same-tree-it-offer/2800283446925001/>

Fruit salad tree



驚人！英國「神奇蘋果樹」，可結50種品種的蘋果
— 2014年9月10日 上午11:16

國際中心 / 綜合報導
驚人！英國有一顆「神奇蘋果樹」，能結出50種不同品種的蘋果！
據英國《每日郵報》(Daily Mail)報導，英國西薩塞克斯郡(West Sussex) 83歲園丁彼得(P)的祖父和曾祖父均為優秀果農，而他繼承了他們優良天賦，對於種植蘋果樹相當在行。他運用嫁接技術，將多種品種的蘋果花芽接種在同一棵樹上，成功培育出「神奇蘋果樹」，能結出多達50種品種的蘋果，其中包括一些無法在市場上購得的稀有品種。
彼得是一位退休牧師，在二次世界大戰期間開始對種植蘋果樹的興趣。彼得表示，他花了30餘年培育蘋果樹，佔地0.5英畝(約2023平方公尺)的果園內，共有130種蘋果，及30種其他類型的水果，如梨子、李子、櫻桃、木瓜、石榴等。



<https://www.945enet.com.tw/epaper/contents/ha/079/02.htm>



World of Succulents: <https://worldofsucculents.com/tips-grafting-cacti/>

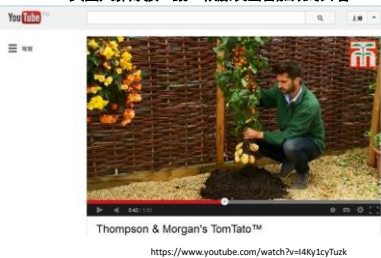
神奇魔法樹 能結出40種水果

Tree of 40 different fruits



紐約雪城大學 (Syracuse University) 雕刻家兼藝術家艾肯 (Sam Van Aken) 用嫁接方式培育出了能結40種水果的果樹，顛覆了人們對於傳統種植的觀念，當春暖花開時，這棵「神奇果樹」便會綻放各種色彩繽紛的花，炫彩耀眼。果樹可同時長出各種不同的桃子、梅子、杏仁與櫻桃等硬核水果，一年內的大多數時間，這棵果樹跟普通樹外表沒什麼差別，但到了春季，這些樹就會開出粉紅、深紅與白色花朵；到了夏季，這些樹就會結出各種不同硬核水果。由於每種水果的結果期不同，7月至10月期間都可吃到各種各樣的水果。

英國人靠嫁接 讓一根藤長出番茄跟馬鈴薯



一名英國人透過嫁接，讓一根藤，同時長出番茄和馬鈴薯。
英國「每日郵報」報導，這名男子叫做「保羅」，是位園藝家，他前往美國旅行時，發現一顆植物，地面以上長出番茄，地面以下長出馬鈴薯，因而受到啟發。返國後開始進行實驗，經過15年努力，終於成功培育出上面長番茄、下面長馬鈴薯的植物。
「保羅」說，他培育出的藤蔓，可以結5百個番茄和馬鈴薯。

電照菊



夜駛高速公路，行經員林段，總會發現奇異的燈海點點，那就是浪漫的田尾電照菊。



Brazilian agronomists studied 3,000 coffee plants from Ethiopia and found three that had almost no caffeine. The plants, labelled AC1, AC2 and AC3, appeared to lack an enzyme needed to make caffeine.



wholeslifer.com
https://whole30.com/2011/03/caffeine-clean-four-months-without-coffee/

不含咖啡因的茶葉 - 王道選

-植物生產咖啡因為是為了對付昆蟲，因為咖啡因對昆蟲來說是毒藥

茶樹 (*Camellia sinensis*)

-除去咖啡因的工業過程會破壞茶葉，甚至破壞茶香

-大陸學者發現廣東有一種野生茶樹，生產的茶葉叫**白毛茶**，咖啡因含量很低

《科學發展》月刊108年1月號電子報文章
Jin, J.-Q., et al. (2018) Hongyacha, a naturally caffeine-free tea plant from Fujian, China. *J. Agric. Food Chem.*, 66, 11311-11319.



Will the World Run Out of Coffee by 2080?
by Leif Haven Mar 24, 2015, from_Drinks

-最近中國農科院茶葉研究所（杭州）陳亮的團隊又發現了一種不含咖啡因的野生茶：**紅芽茶**



http://www.plantsystematics.org/imgs/chardy//Theaceae_Camellia_sinensis_23574.html, by Christopher Hardy

World's first blue roses after 20 years of research
The world's first blue roses have been unveiled following nearly two decades of scientific research.



The Blue Rose was developed by Suntory Flowers



After centuries of failed attempts at breeding a blue rose, biotechnology does the trick
American Chemical Society | October 15, 2018



Black roses (roses of black color) exist only in nature at Halfeti, Turkey.

Peppers not hot (GM or breeding?)



辣椒中的辛辣成分具有類似抗憂鬱藥的特性



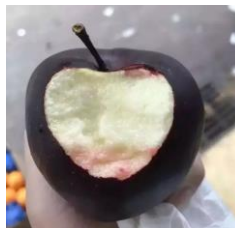
農業科技決策平台 (2019/02/07 @ 國際)
<http://stockyix.com/editor/?>



http://1.bp.blogspot.com/-ZpbQB_ozAos/Vbgq_5SBuqI/



神秘「黑蘋果」超高貴 果農聞之色變「全都不敢種」



Normal apple tree takes 2-3 years for flowering but this variety needs 8 years. It has only ~30% reaches uniform of black pigmentation.
One apple costs NT\$ 666 in China.

比冰淇淋更好吃-絕美-藍蕉-爆紅



原產於澳洲、夏威夷和亞洲地區的「爪哇藍蕉」(Blue Java Banana)，能生長在攝氏零下7度的地區，屬於耐寒香蕉最常被用來搭配冰淇淋，在世界其他地區也擁有多個名字，夏威夷人稱它「冰淇淋香蕉」、斐濟人則稱它為「夏威夷香蕉」，甚至有老饕大讚它是「香蕉界哈根達斯」！

三立新聞網
2019年10月7日 上午10:10

青鳥花 (Crotalaria cunninghamii) 三立新聞網 SETN.COM



生長在澳洲北部內陸地區

植物界美猴王? 「猴子蘭花」模樣逼真 三立新聞網
2019年10月12日



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What would the Jolly Green Giant say? Native American farmer grows amazing multi-coloured corn

• Glass Gem corn developed by Carl Barnes was passed on after his death
• Now the seeds are available online and have attracted huge demand

By ONLY MAIL REPORTER
Published 14:30 GMT, 1 October 2013 | Updated 11:02 GMT, 1 October 2013

These extraordinary images may appear to show colourful beaked sweets or even glass beads - but in fact, they show specially bred ears of corn.

Glass Gem corn was developed by a Native American farmer who noticed that every so often, a cob showed signs of unusual colouring shining through.

Now the unique strain is available for purchase online, and is in hot demand from gardeners keen to add a touch of colour to their vegetable patch.

Scroll down for video

Image: The corn was developed from ears with natural splashes of colour which were then bred together

玉米



甘藷



Study Linking Genetically Modified Corn to Rat Tumors Is Retracted

http://www.scientificamerican.com/article.cfm?id=study-linking-genetically-modified-corn-to-cancer&WT.mc_id=SA_DD_20131202

Publisher withdraws paper despite authors' objections, citing weak evidence
By [Barbara Casassus](#) and [Nature magazine](#)

<https://rvi.biz/fo-cultivo-da-batata-doce-de-aljezur/6063976007749580364>

CRISPR/Cas9 & Targeted Genome Editing:
New Era in Molecular Biology

未來世界不需街燈？ 荷研製發光路樹

1:15:09 PM 4/1/2014

Ces arbres luminescents pourraient remplacer les lampadaires

Le HuffPost | Publication: 31/03/2014 10h14 CEST | Mis à jour: 31/03/2014 10h14 CEST

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泡麵長在樹上？



由於「巴拿馬草」的花是單性的雌雄同株，
所以會排成稠密的穗狀花序，而雌雄花在螺旋排列後。

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編輯中心 / 綜合報導
2020年1月30日