

The New Weatherman's Cookbook



v.1.2
2014-05-19



THE NEW WEATHERMEN MANIFESTO

For a new symbiotic world order

1st August 2013

For immediate release,

We the Weathermen have listened for too long, it is time for action. Politicians, journalists and "green" activists keep on telling us which way the wind blows. In the Anthropocene, the only question is; which way do we want the wind to blow?

If it is to survive, Homo Sapiens must recognise and celebrate Symbiosis. From our guts to the bottom of the ocean, from intercourse to welfare, give-and-take is the rule. Like Toxoplasmosis, we are going to re-wire your brains, in order to un-tangle the ideological mess you are in.

We set forth the principles for a new symbiotic world order, which is the guiding force behind our actions.

Parasite Lost

Parasitic behaviour will not be tolerated.

Eden Gone

There is no untouched Nature to go back to. Only forward.

Caution is for Preys

Abort the precautionary principle.

Bio Commons

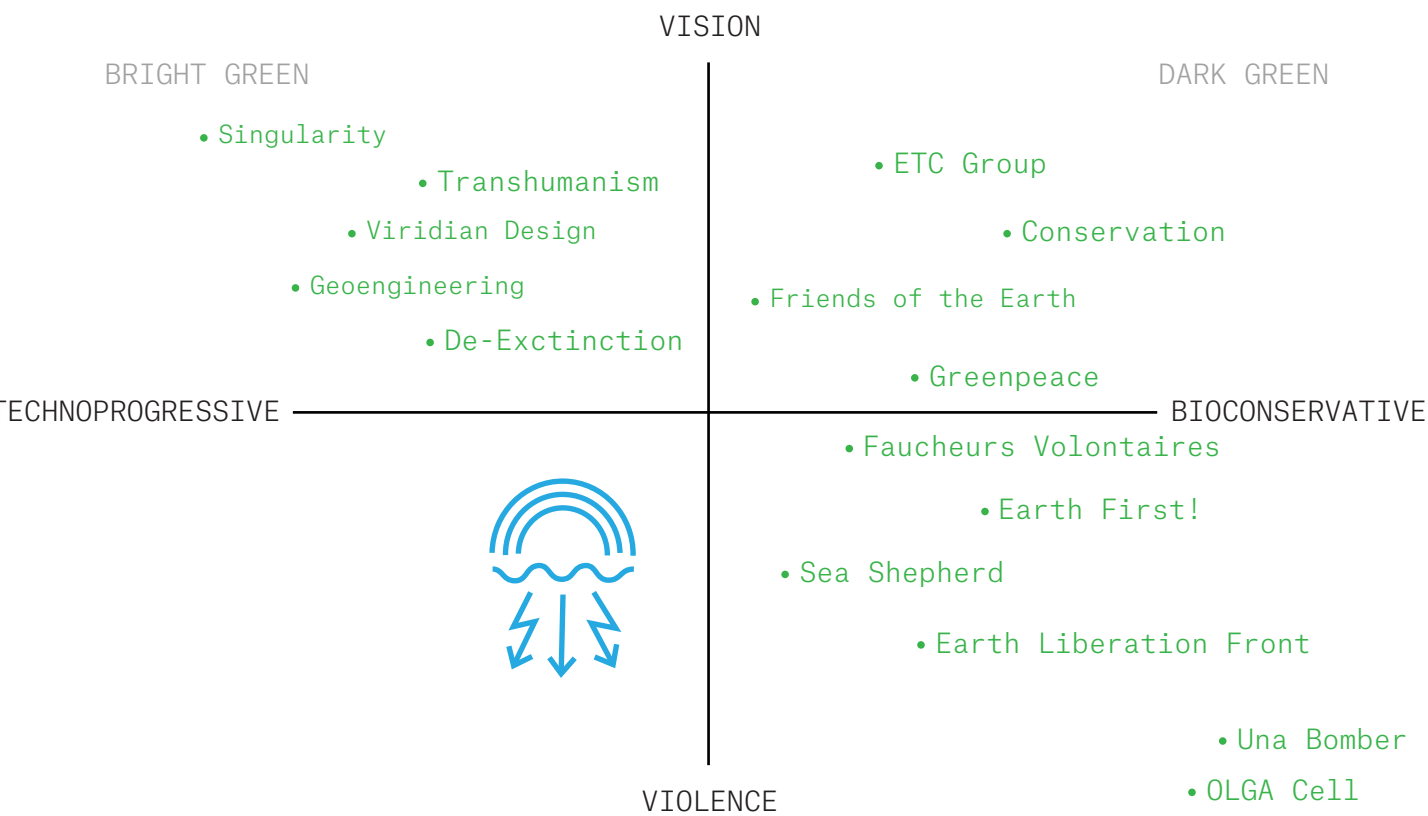
Abolish intellectual property.

Species Galore

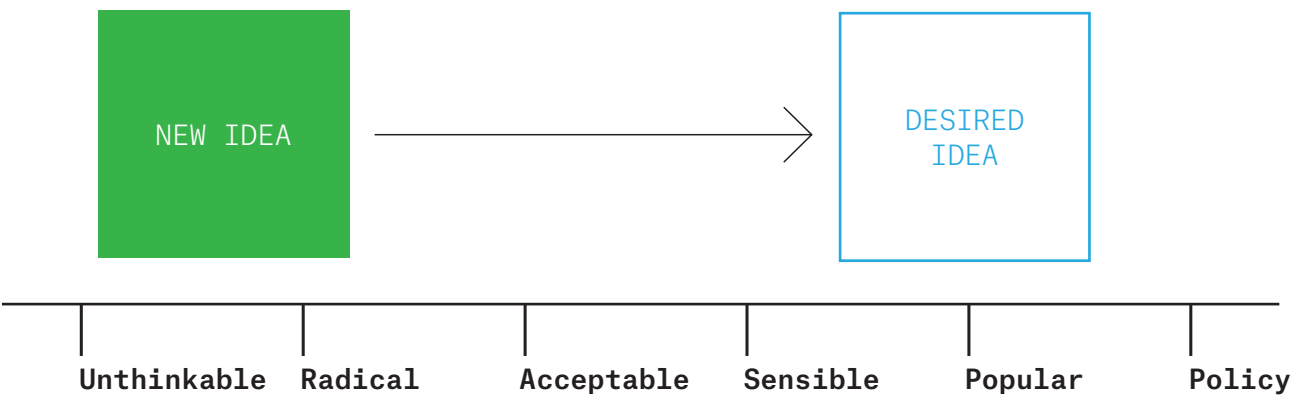
Conserve all species and genomes.
Create as many new ones as possible.

- END -

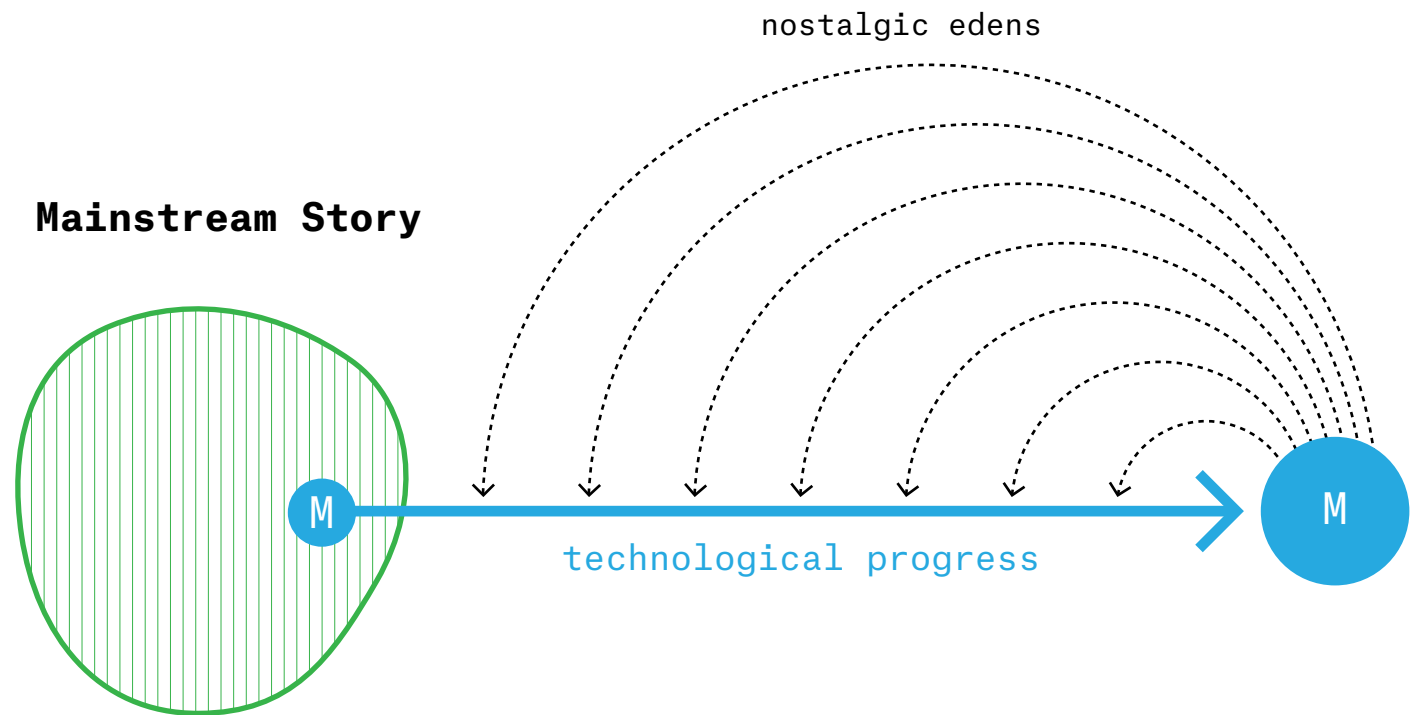
Political Positioning



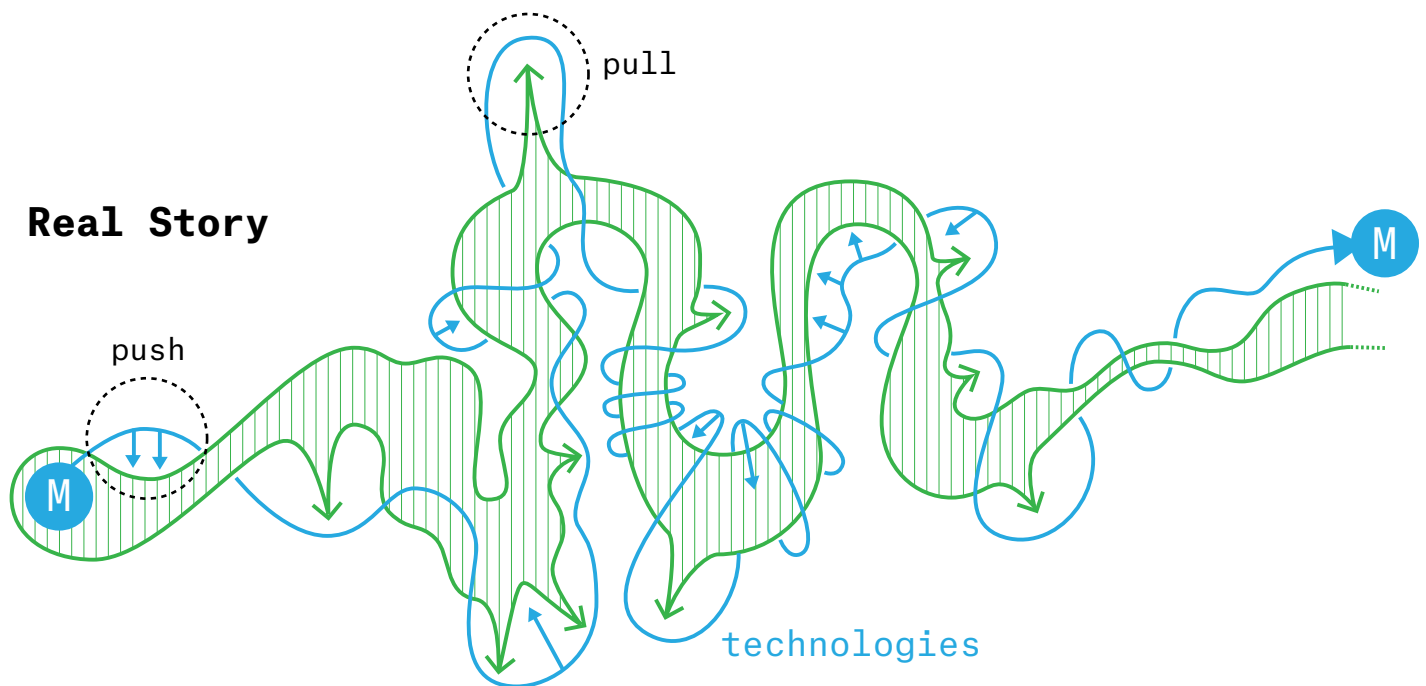
Overton Window



The Overton Window describes the narrow range of policy ideas that the public will accept at a given moment. This window can be ‘moved’ by proposing deliberately radical or outrageous ideas that make the original agenda look acceptable by comparison.



Man vs Nature



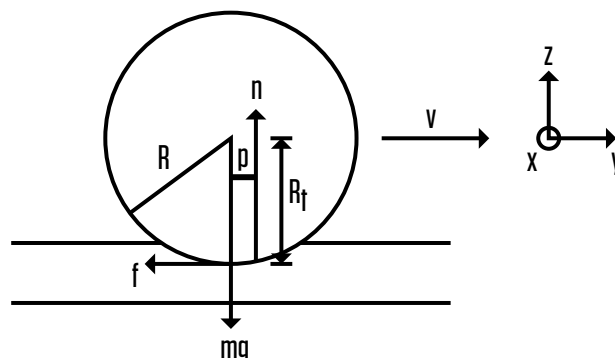
IF YOU LIKE
NATURE
SO MUCH
WHY DON'T YOU GO
LIVE THERE?



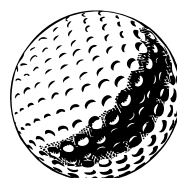
#PIRATE POLLEN @lub

Many golf courses and suburban houses use genetically modified grass in order to grow stronger, greener and prettier lawns. Suburban genetics is a juicy market for biotech companies and the subject of patents and copyrights, which the Weathermen oppose. While traditional green activists – such as the Anarchist Golfing Association – would simply break into greenhouses to kill experimental crops, the Weathermen believe that the answer to Big Biotech is not No Biotech but Open Source Biotech.

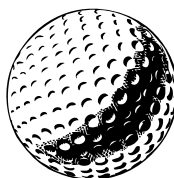
Using a wind tunnel to test propagation, two plans are devised. The first one involves Homology Directed Repair to remove the copyrighted gene in the grass, and disable the herbicide resistance it expresses. When the golf course is sprayed, the herbicide kills weeds and grass alike, leaving golfers with only rough soil to play on. The second option is to propagate an open source grass species which outcompetes the copyrighted one in terms of growth rate and sturdiness. The new species disrupts the green's flatness and makes it much harder to play.



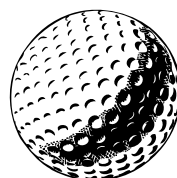
Forces acting on a golf ball rolling on a level green



@copyrighted herbicide resistance



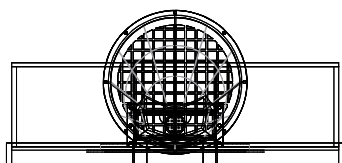
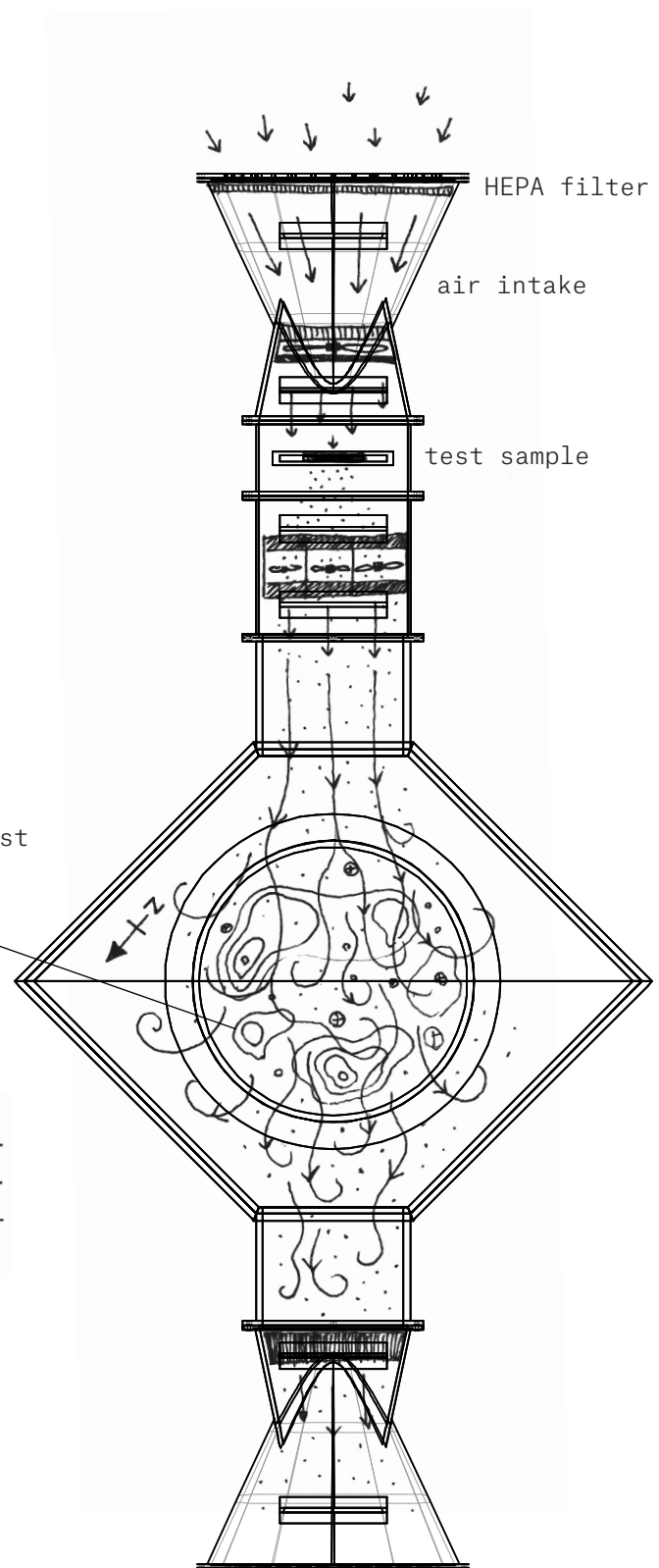
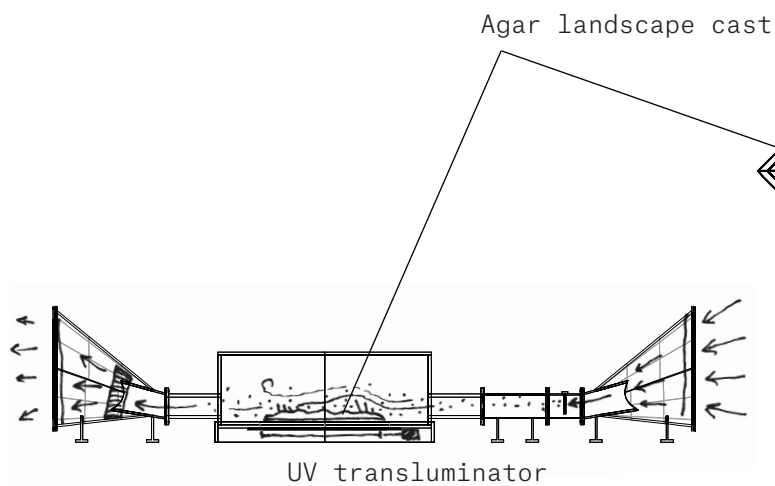
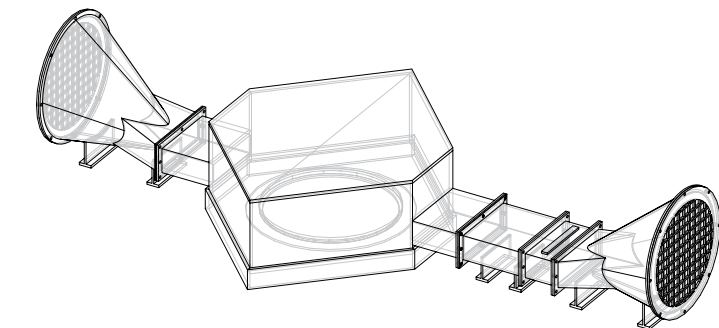
no herbicide resistance

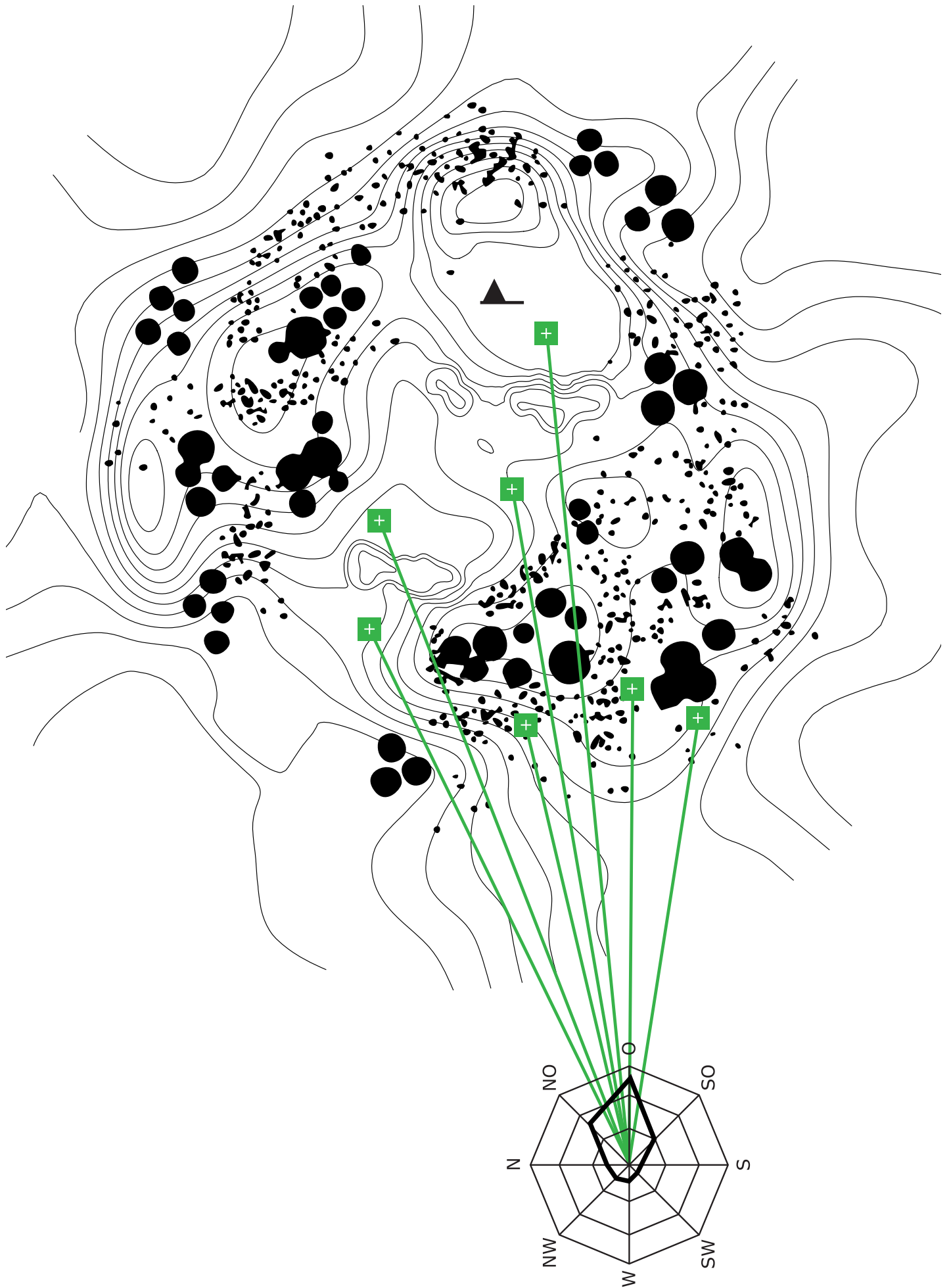


outcompeting open source weeds

Wind Dispersion Tunnel

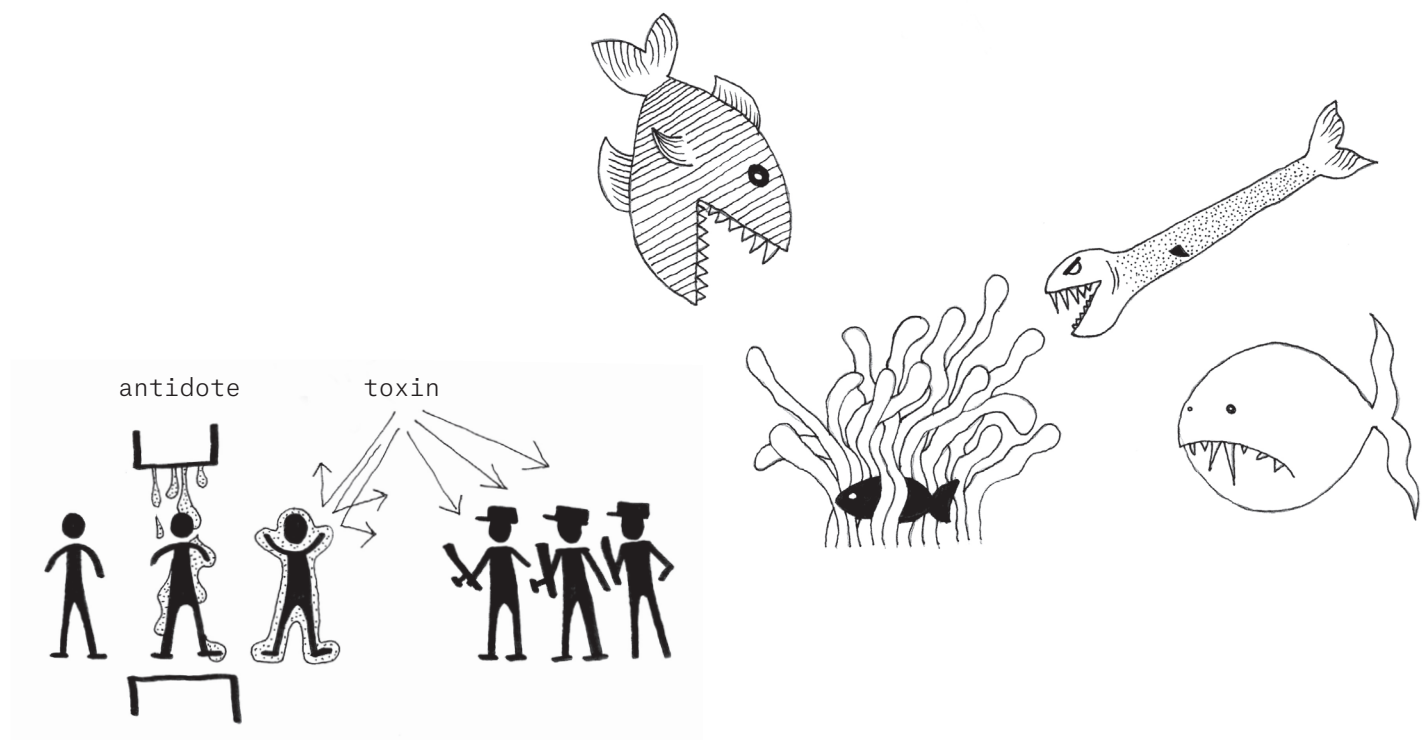
Copyrighted gene removal in proprietary
golf-course grasses





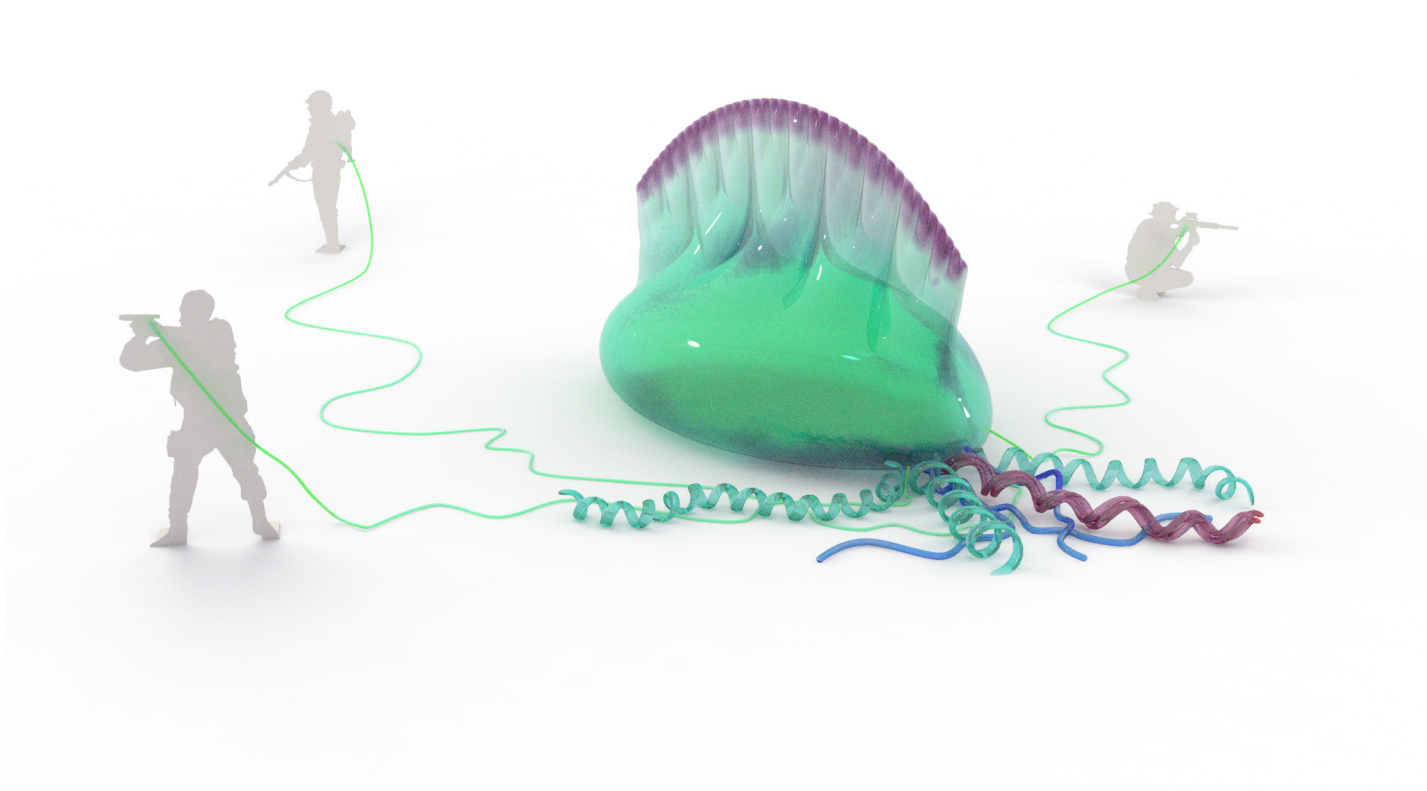
Anemone Tactics

clownfish.jpg (594 KB, 2436×1668)

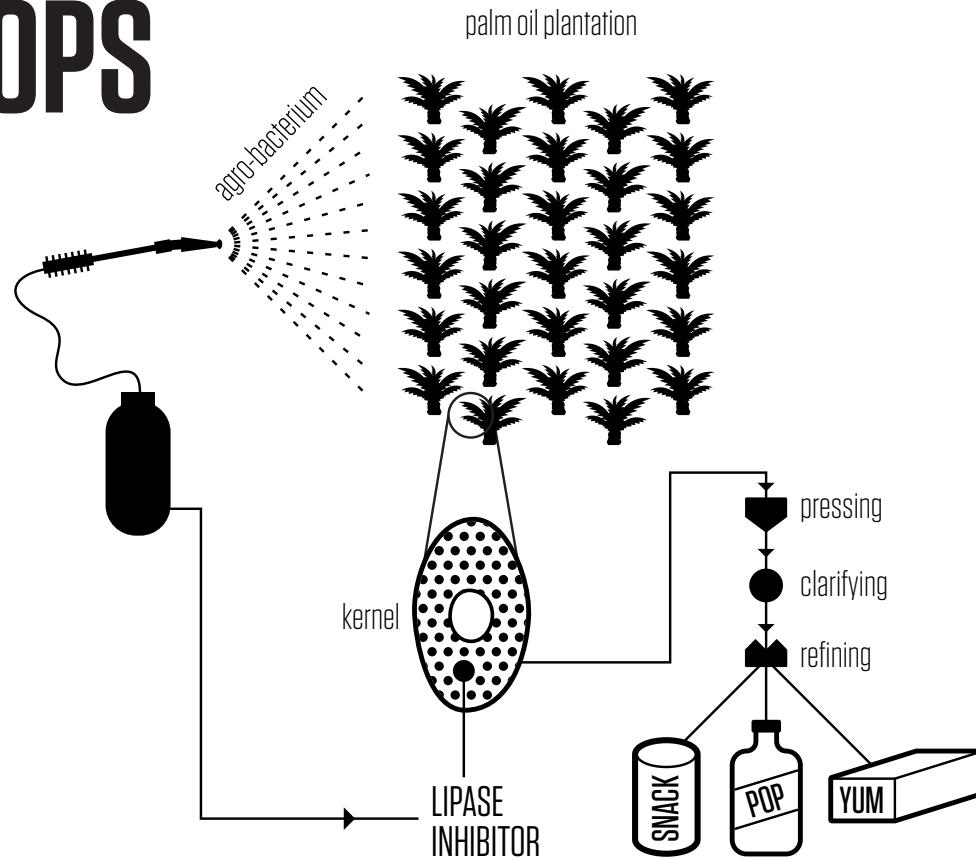


Black Bloc Man 0' War

MOW-model.blend (36.6 MB, 2244×1559)



#PalmOPS



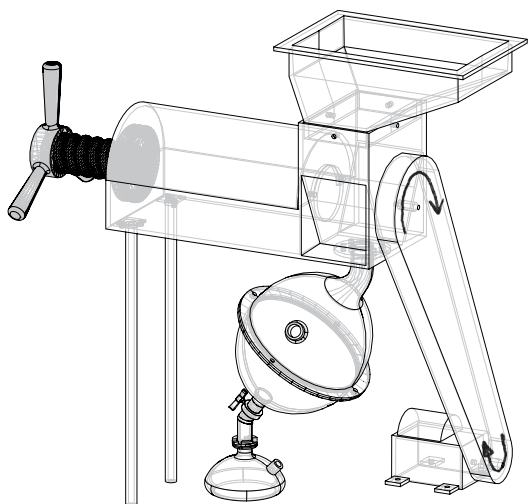
Massive palm oil plantations in southeast Asia are widely criticised by green activists groups, because they take over rainforests, peatlands and biodiversity. Palm oil is increasingly attractive to the food industry, especially as an alternative to trans fats which are now subject to labelling regulations. To shift the public's opinion of this ubiquitous foodstuff, the Weathermen take to radical methods. By way of agrobacterium and guerilla spraying operations, they modify the palms to produce lipase inhibitors which keep the body from digesting oil. Anyone consuming this modified oil is unable to process it, causing sickness and all sorts of #BIOLULZ side effects. The oil press device is used to test the transformation by pressing small batches of oil and testing for the absence of glycerol.

This tactic builds on existing treatments for alcoholism, where Coprine—a compound found in the ink-cap mushroom—produces instant and violent hangovers in patients who drink while on the drug.

#BIOLULZ

Palm Oil Non-Digester

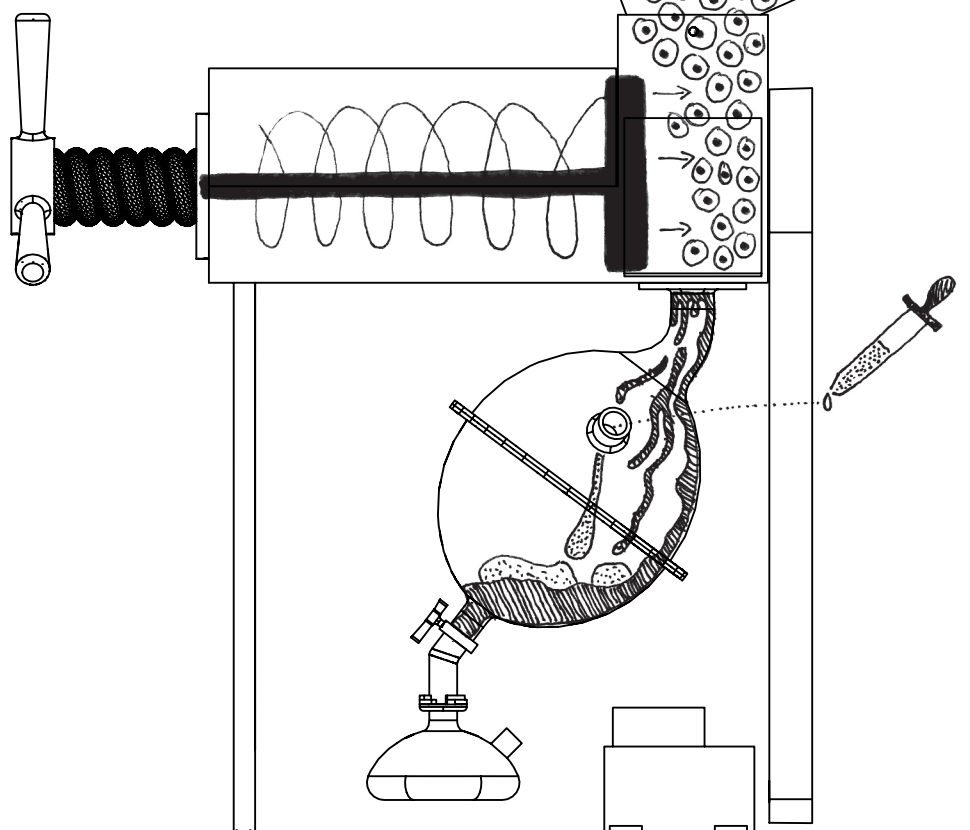
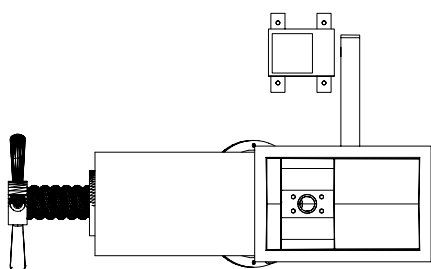
Palm oil press and glycerol tester



Testing for Glycerol

- 1- Set up three test tubes: blank, glycerol std, and your experimental.
- 2- Add one ml of water to the blank; one ml of 10% glycerol to the standard; and one ml of your fermentation mixture to the experimental tube.
- 3- To each, add one ml of Clorox; wait three minutes.
- 4- Add 4 drops of concentrated (12M) HCl to each tube.
- 5- Place the three tubes in the boiling water for a minute to drive off any chlorine gas.
- 6- Add 0.2 mL 5% 1-naphthol
- 7- Add 4 mL of concentrated H₂SO₄ (take care to not get any of this on your fingers or clothes!)
- 8- Shake the tubes carefully to mix
- 9- An emerald green color indicates the presence of glycerol.

If Glycerol is present, palm oil is being digested = #FAIL



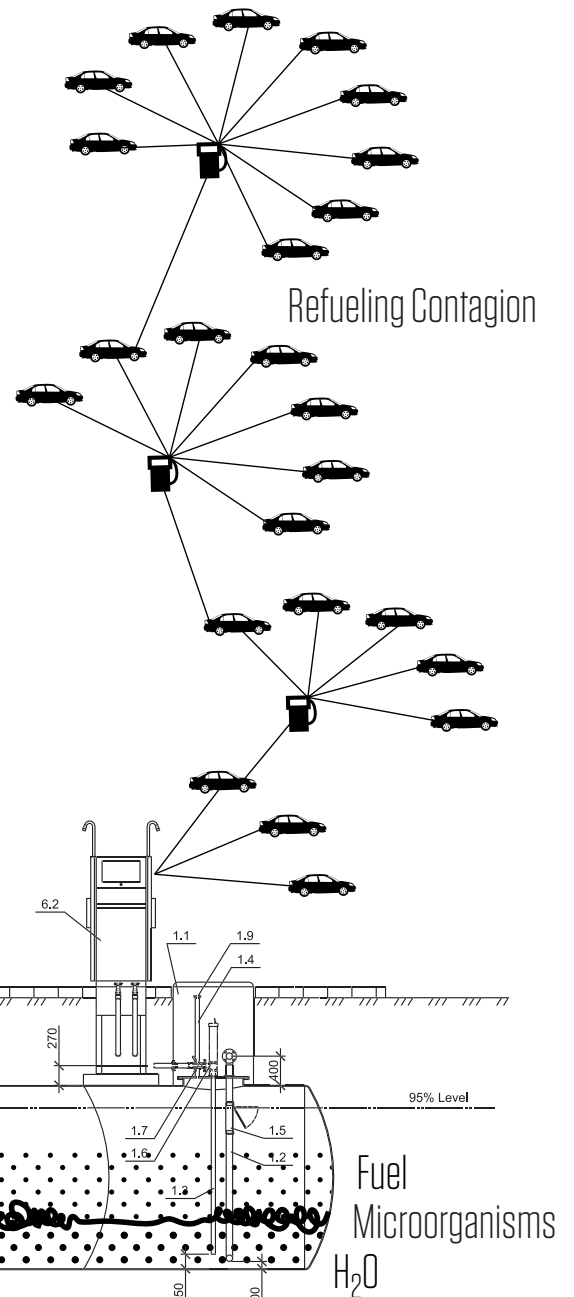


Re: Bring Back The Furry Trout

Anonymous 08/28/14(Sat)14:56:22 No.107391221
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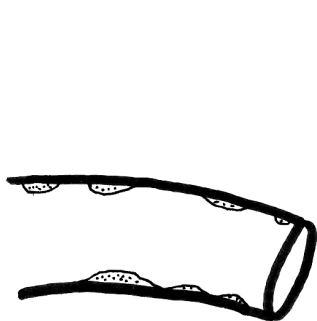
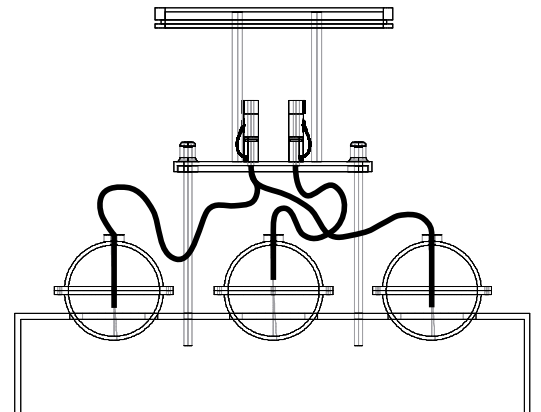
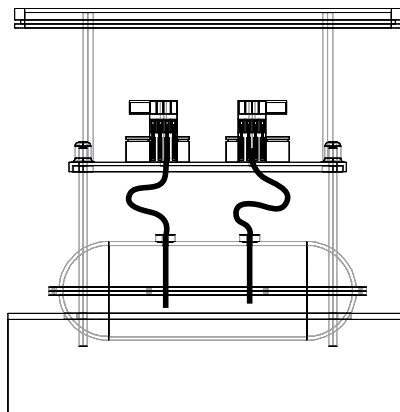
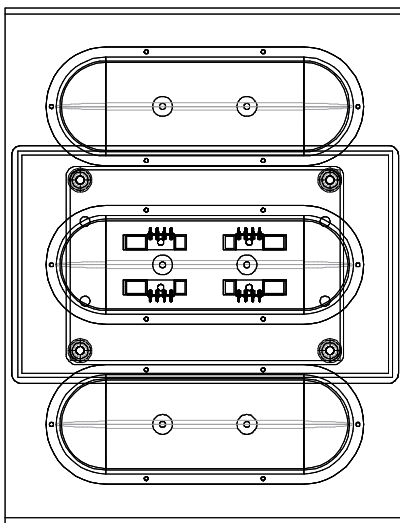
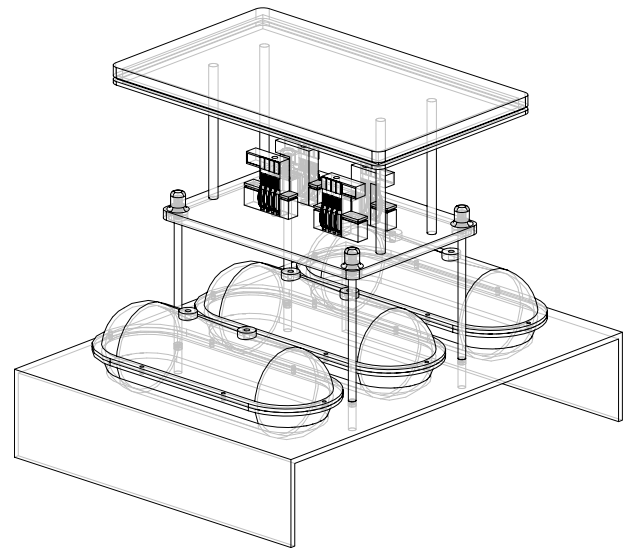
#BIOCCUPY DIESEL

To disrupt the parasitic fossil fuels industry, the Weathermen take to optimising microbial infections in fuel known as the Diesel Bug. Using small scale tank replicas, they modify the bug to maximise growth and biofilm production. Another challenge is to achieve enough 'stickiness' for contagion to occur. The bug should be passed on to every car which refuels at an infected pump and to every pump used by an infected car.

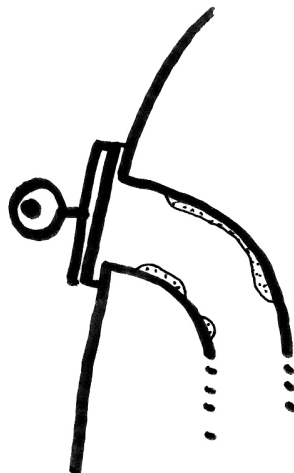


Diesel Bug Test Rig

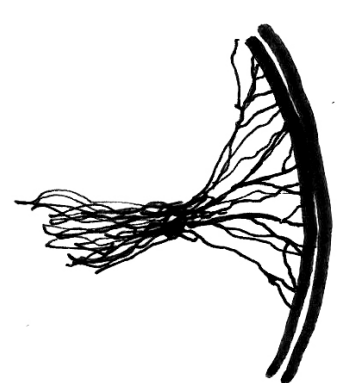
Optimisation of microbial contaminations in diesel fuel tanks



Gas Pump nozzle



Car Tank cap



Biofilm formation

#Bioccupy Diesel

An open letter from the New Weathermen

Dear driver,

You may have noticed the news of “diesel bugs” popping up all over your TVs and papers recently. You are being fed a lot of lies and we-The New Weathermen-want to set the record straight.

This is the first blow in an all out war against the parasitic extractors and retailers of fossil fuels, also known as Big Oil. Like monstrous ticks on the back of our planet, they have been digging and sucking up the black gold. Filling their pockets with piles of cash and stinking up the rest of us with nasty greenhouse gases. We refuse this parasitic behaviour, and declare a new symbiotic world order.

You, friend, you and your cherished four wheeled toy, are at the end of the food chain. You are right on that battlefield and will suffer as well if you don’t get out. We urge you to abandon your petrol fuelled vehicle and consider alternative modes of transportation. Our war is against Big Oil, not against you. From now on however, we have no choice but to treat anyone who continues to rely on their products as an enemy.

Our weapon is a parasite to take down the parasites. As you have heard, microbes capable of rendering huge quantities of fuel completely useless. Despite what the oil companies want you to believe, this is everything but a “naturally occurring mutation”. We have created an optimised species of the *Pseudomonas aeruginosa* bacterium, completely harmless to humans, but absolutely deadly to diesel fuel. For anyone who cares to check we have watermarked their DNA with a very readable message.

The rules are simple: each pump infects every car and each car infects every pump. Our little guys are clinging to the sides of nozzles and tank valves. They will spread like a pandemic. They are making their way down to underground tanks to multiply, and back out again. It is too late to stop them, even for us. They will fight for themselves, and we have taught them well.

You have also seen the so called experts on the news. These companies selling diesel bug removal services to yacht owners. They rubbed their hands at first, telling you they could get rid of the sludge in no time. Too bad, we ran dozens of experiments on their glorified bleach. We can tell you with confidence, don’t waste your money. They have no clue how to fight our bugs. The tank graveyards speak for themselves.

The Greens still don’t know what to make of it, and they won’t for a while. So you have to think for yourself. We are having more impact than they could ever dream of with their sit-ins and banners and polar bears. We have home-brewed direct action organisms, they have petitions and are begging for funding. Finally, someone is doing something, we are bringing Big Oil down on its knees.

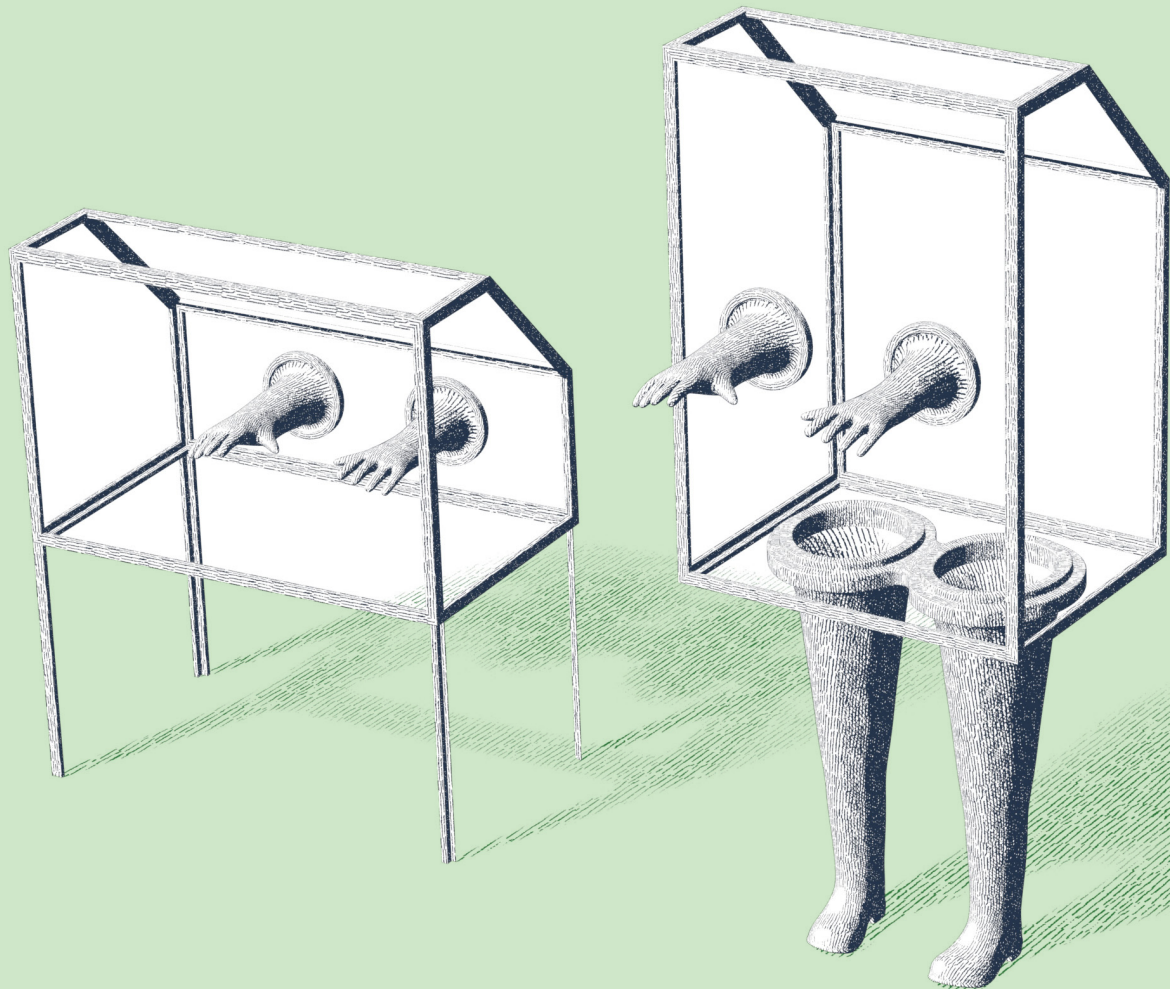
We know you’re probably angry. Sitting in your car, waiting in line for some microbial security clearance to pay a huge amount of money for a tiny portion of fuel-but it doesn’t have to be like this. You have been waiting for this moment, you know it’s the right thing. You have the mortgage, the kids, the car, fair enough. We saved you the trouble and made that decision for you. There will be no more diesel.

Now you have two options. You can join our ranks and help put an end to the parasitic era of man. Or you can keep your head in the sand, continue to curse us—and we’ll see you in hell.

Symbiotically,
The New Weathermen

Containment & Safety

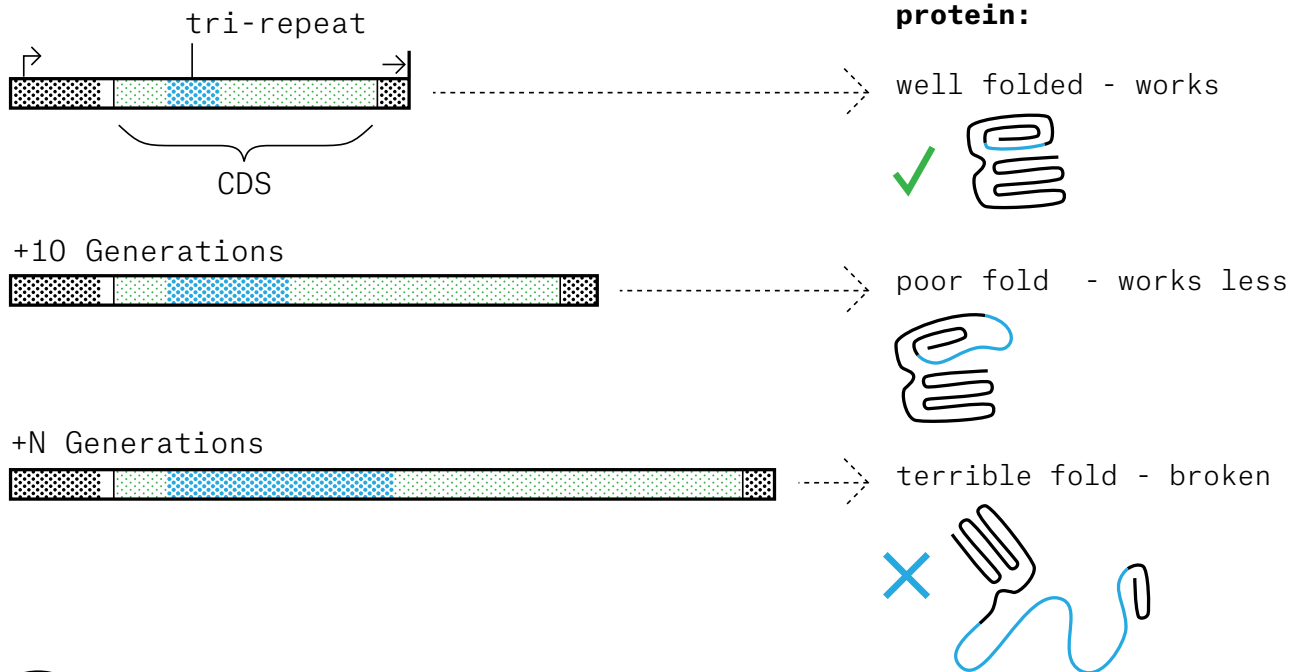
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Bio-Containment

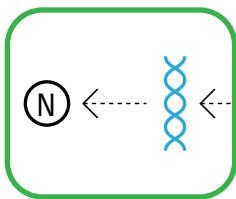
World-Containment

N^{th} To the Nth Generation

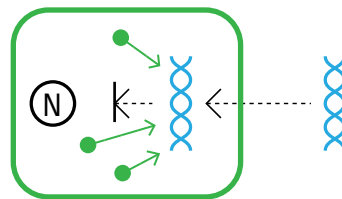


= No Derivatives

Restriction/Modification system

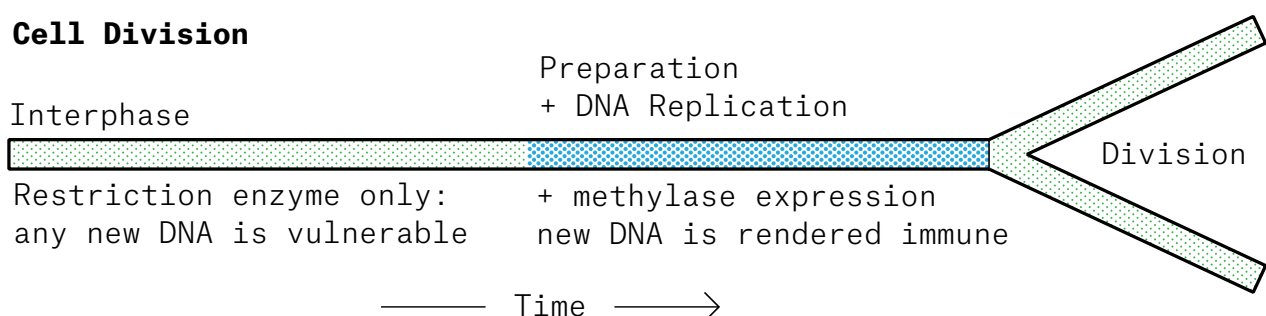


Normal: Moderate impedance to DNA makes engineering inefficient

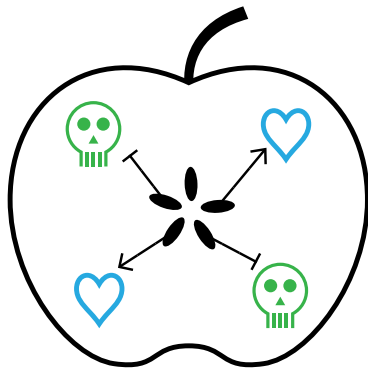


With Restriction/Modification: Additional restriction enzyme make cells more resistant to engineering

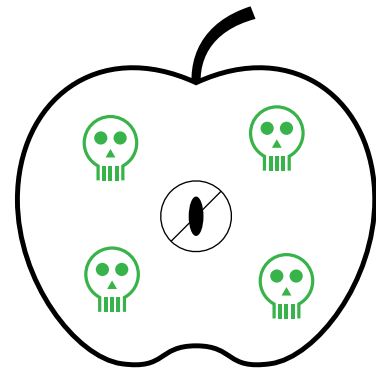
Cell Division



#1

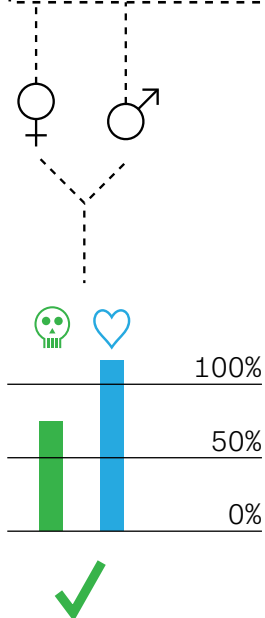
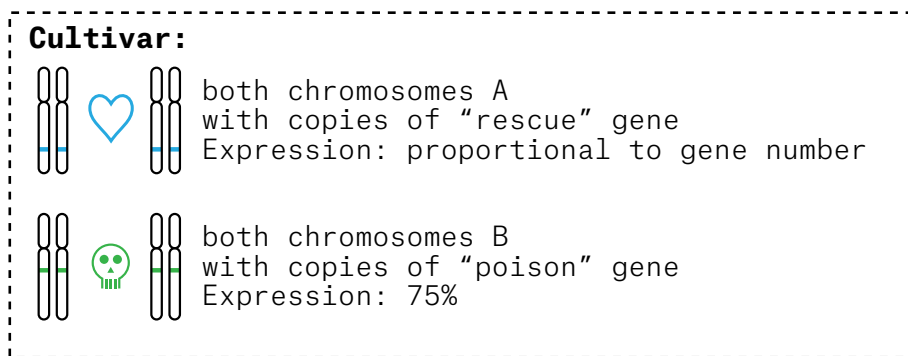


Seeds prevent wastage

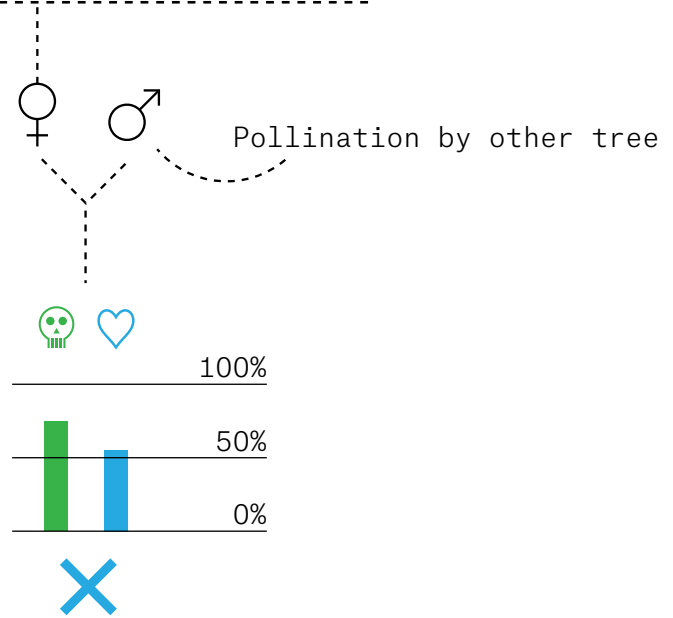


No seeds = horrible fruit

#2



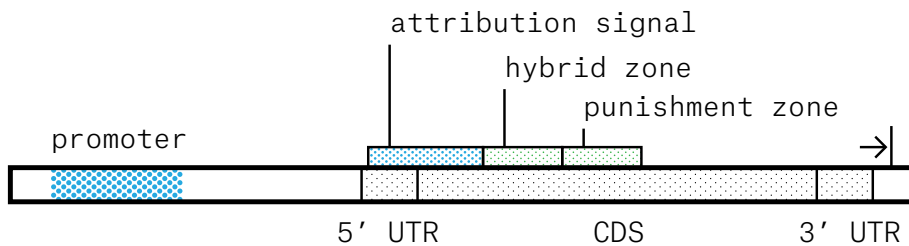
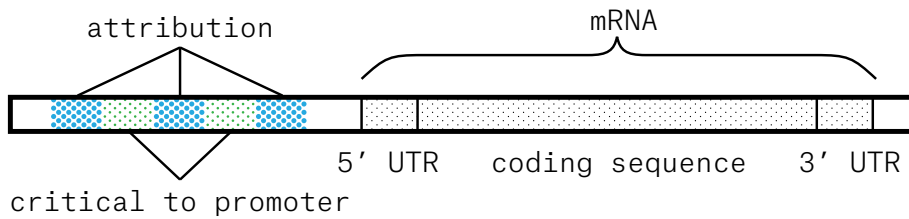
"poison" masked by "rescue"
Offspring!



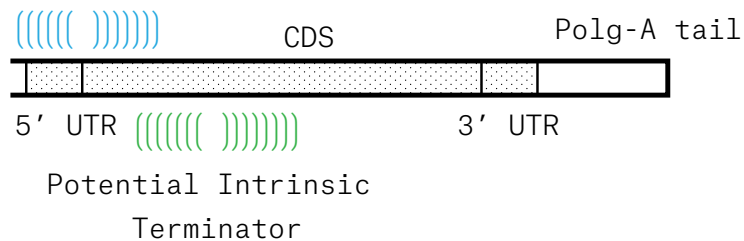
"poison" overpowers "rescue"
NO F1 hybrid fruit
NO pollination with crabapples
NO offspring

Attribution

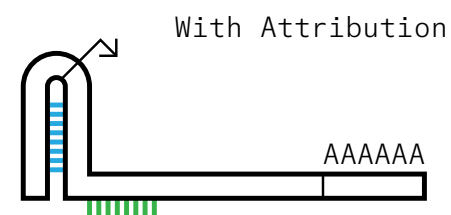
Promoters:



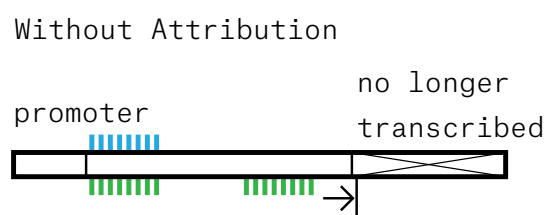
attribution protects against termination



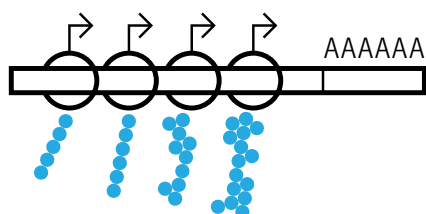
Potential Intrinsic Terminator



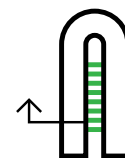
With Attribution



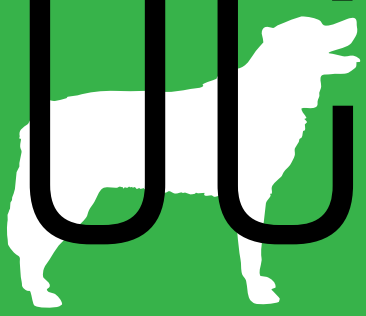
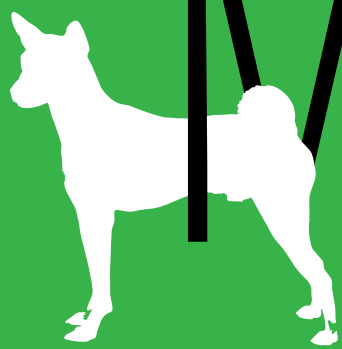
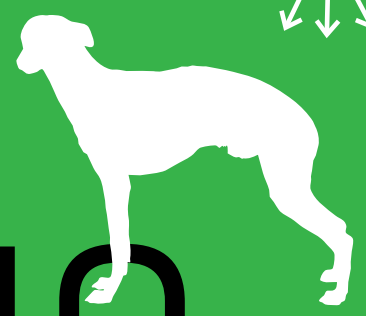
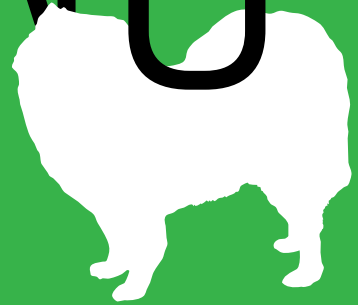
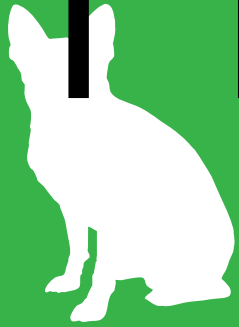
Without Attribution



✓ protein translated



✗ folds up RBS
short & rapidly degraded RNA
NO translated protein



PLAYING

GOOD

MUCH?

The New Weathermen is a project by [David Benqué](#)

Scientific Advisors and Experts:

Cathal Garvey - Synthetic Biologist, Biohacker - [Indie Biotech](#)

Alice Bell - Academic and writer, science in public policy and popular culture

Xxxxx Xxxxxx - Head of a parliamentary office

Xxxxx Xxxxxx - Phd candidate in Bioengineering

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EU funded research project at [Design Interactions Research](#),

Royal College of Art, London.