

Future
Insects 1-9:

An
Artificial
Investigation
into
Pollution
Evolution

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Abstract

Pollution evolution expands on the Darwinian desire for survival of the species with the cynicism of understanding the presence of radiation and other toxins, both equally amongst different species and as randomly selected/ present genes. At the current rate of human progress, the majority of living systems will be destroyed and a new life will take its place. We can attempt to have a glimpse into said new life through the expansive concept of pollution evolution.

All of the insects have been rendered (or bred) using the online app "Ganbreeder". They are direct descendants of existing plants and insects, but, their DNA also includes pollution, debris, digital detritus, and human objects. By turning to AI technologies, I am attempting to imagine the world of flora and fauna in a post human landscape.

Future Insects 1-9:

An Artificial Investigation into Pollution Evolution

The life cycle is such that the waste produced by an organism and that organism's own body, post-death, will return to the earth where it will become embedded in the next generation of genetic evolution. What happens when increasingly, plastics and chemicals are released into the wild and downloaded into evolutionary change itself? Gone are the days of normal Darwinian evolutionary models. Pollution evolution expands on the Darwinian desire for survival of the species with the cynicism of understanding the presence of radiation and other toxins, both equally amongst different species and as randomly selected/present genes. All organisms are so affected by the effects of pollution at a genetic and atomic level. Is pollution evolution just another hypothetical theory for a post-human future, or is it a viable and alternative framework for understanding our environmental impacts? When humanity no longer inhabits the natural plane, what does the rest of the ecosystem grow to look like? How does pollution evolution affect a rapidly changing biological future? At the current rate of human progress, the majority of living systems will be destroyed and a new life will take its place. We can attempt to have a glimpse into said new life through the expansive concept of pollution evolution.

Method

Participants

In order to further investigate the theory of pollution evolution and a post-human, future, ecological system; I partnered with a non-subjective system of hypotheticals and analytics, or an artificial intelligence system. Ganbreeder, now known as Artbreeder, is a visual, artificial intelligence system that takes the language of evolution and generational family lineages in order to function. This makes it the ideal partner to examine the potentiality of pollution evolution and its subsequent effect on the planet and life.

Process

All of the insects have been rendered (or bred) using the online app "Ganbreeder". They are direct descendants of existing plants and insects, but, their DNA also includes pollution, debris, digital detritus, and human objects. By turning to AI technologies, I am attempting to imagine the world of flora and fauna in a post human landscape. The roaches and mealworms scour trash piles for sustenance, adding plastics and metals into their composition. The plants are then pollinated by these insects, they absorb water from radioactive soil and sunlight through thick smog. Everything has changed. Artificial Intelligence and other digital technologies can help give us an insight into how, and what this change may look like, through the digital eyes of logic and computational analysis.

Two different "parent" nodes are chosen in order to begin. From these two, different combinations of visual genetic information are compiled into offspring by the GanBreeder AI. At this point one offspring is chosen for the sake of the experiment and a new genetic node can be added if wanted. A new generation of offspring can then be bred/ generated.

As the number of generations increases, so do the chances that the genetic information present in the offspring will contain traces of human objects and pollution. Ganbreeder, as a way of understanding human error through the lens of machine, has also predicted that pollution evolution is an occurrence that will happen in the future if it hasn't already started to occur. It is my prediction that insects will be the strongest of the living creatures in terms of species survival for the adaptability.

Results

Future Insect 1



Bee = 0.8454	Mousetrap = 0.0952	Axolotl = 0.0378
Bicycle built for two = 0.2570	Hot pot = 0.0909	Loggerhead = 0.0339
Gown = 0.2296	Jellyfish = 0.0901	Drilling platform = 0.0337
Wig = 0.1255	Coral reef = 0.0826	Digital watch = 0.0294
Arctic fox = 0.1141	Geyser = 0.0553	
Chimpanzee = 0.1118	Comic book = 0.0425	

Future Insect 2



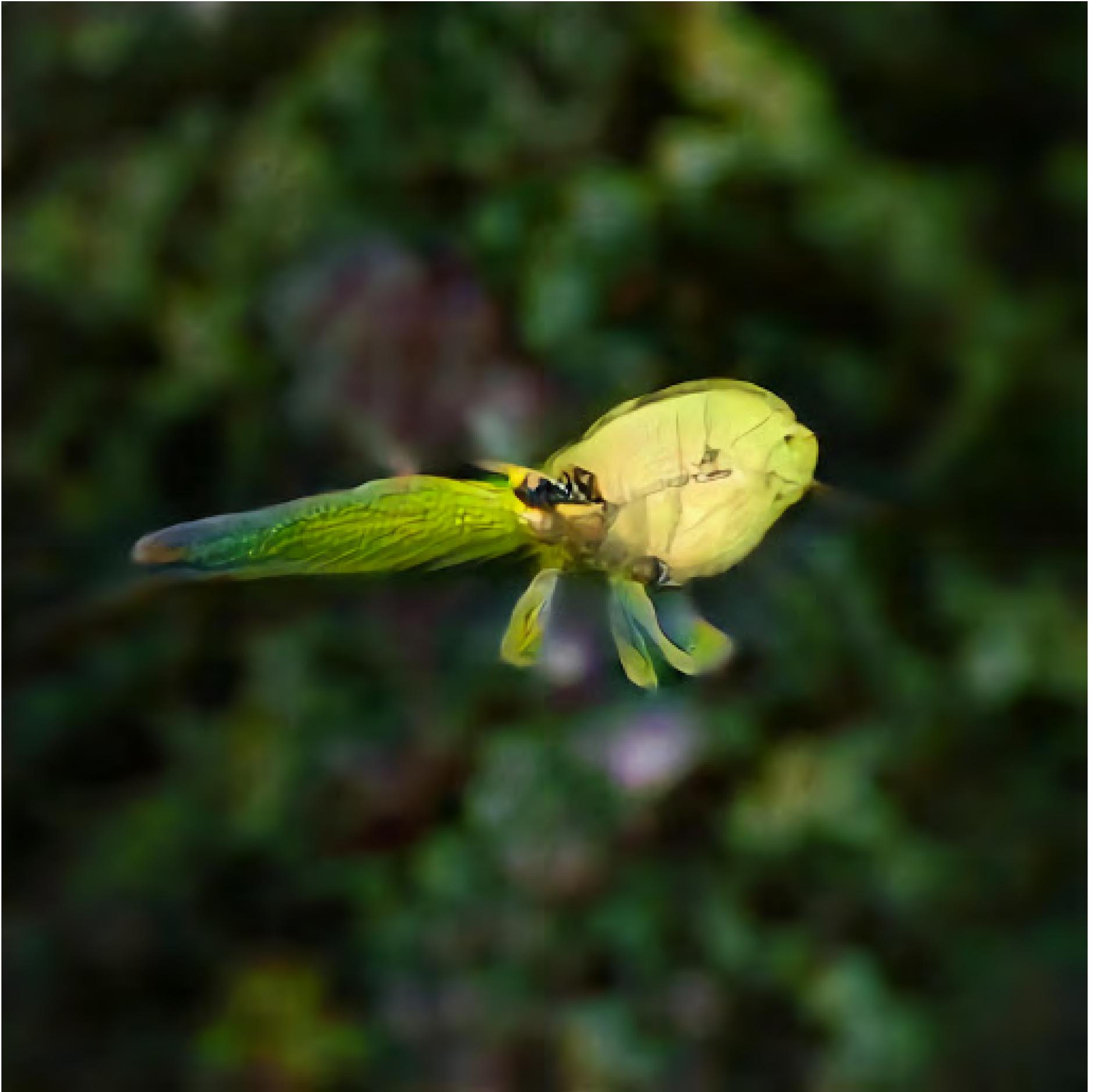
Pomegranate = 0.5955	Sea cucumber = 0.1205	Bicycle built for two = 0.0642
Green snake = 0.5289	Mantis = 0.1116	Gown = 0.0614
Tarantula = 0.2806	Wig = 0.1029	Gyromitra = 0.0594
Maillot = 0.2425	Espresso maker = 0.0725	Computer keyboard = 0.0505
Bee = 0.2367	Geyser = 0.0695	
Jellyfish = 0.1625	Drilling platform = 0.0687	

Future Insect 3



Gyromitra = 0.4955	Green snake = 0.1972	Mixing bowl = 0.0825
Jellyfish = 0.4070	Drake = 0.1617	Badger = 0.0535
Drilling platform = 0.3992	Black widow = 0.1522	Space shuttle = 0.0492
Leatherback turtle = 0.3480	Tarantula = 0.1081	Sea cucumber = 0.0425
Mantis = 0.3261	Maillot = 0.0934	
Pomegranate = 0.2269	Bee = 0.0885	

Future Insect 4



Vine snake = 0.6077	Daisy = 0.2239	Sunscreen = 0.0301
Bonnet = 0.4218	Green snake = 0.2216	Peacock = 0.0250
Oxygen mask = 0.2291	Little blue heron = 0.2196	Plunger = 0.0235
Gyromitra = 0.2262	Pineapple = 0.0586	
Jellyfish = 0.2242	Garden spider = 0.0583	

Future Insect 5



Common iguana = 0.6401	Maillot = 0.1432	Black widow = 0.0363
Pomegranate = 0.5061	Jellyfish = 0.100	Cabbage butterfly = 0.0299
Leatherback turtle = 0.3532	Mantis = 0.0841	Tarantula = 0.0260
Mixing bowl = 0.2449	Gyromitra = 0.087	Church = 0.0206
Corn = 0.2142	Green snake = 0.0476	
Drilling Platform = 0.1757	Drake = 0.0412	

Future Insect 6



Green snake = 0.7721

Tarantula = 0.6211

Future Insect 7



Black widow = 0.3500	Bee = 0.1353	Geyser = 0.0397
Pomegranate = 0.3403	Jellyfish = 0.0929	Drilling platform = 0.0392
Green Snake = 0.3022	Sea cucumber = 0.0689	Bicycle built for two = 0.0367
Drake = 0.2455	Mantis = 0.0638	Gown = 0.0351
Tarantula = 0.1603	Wig = 0.0588	
Maillot = 0.1386	Espresso maker = 0.0419	

Future Insect 8



Green snake = 0.7610

Polaroid camera = 0.0573

Tarantula = 0.6121

Acorn squash = 0.0387

Daisy = 0.1412

Refrigerator = 0.0370

Gyromitra = 0.1082

Future Insect 9



Cabbage butterfly = 0.5983	Drilling platform = 0.1041	Black swan = 0.0469
Mantis = 0.5963	Cockroach = 0.0867	Face powder = 0.0292
Common iguana = 0.3758	Maillot = 0.0847	Green snake = 0.0282
Leatherback turtle = 0.2065	Jellyfish = 0.0558	Drake = 0.0221
Mixing bowl = 0.1433	Gyromitra = 0.0515	
Corn = 0.1262	Handkerchief = 0.0495	

Discussion

Pollution evolution, there's no going back now.

References

Simon, Joel. "Artbreeder." Artbreeder, 2019, artbreeder.com

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Fonts in use: AT Apoc Revelations,
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