



# Predict lifespan of a comet goldfish



avg\_ weight

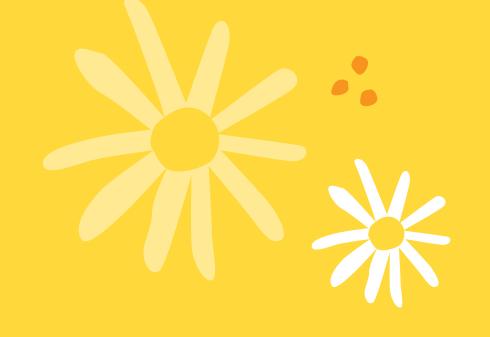
habitat

ph\_of\_ water

color

gender

life\_ span





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avg\_ weight

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habitat

color

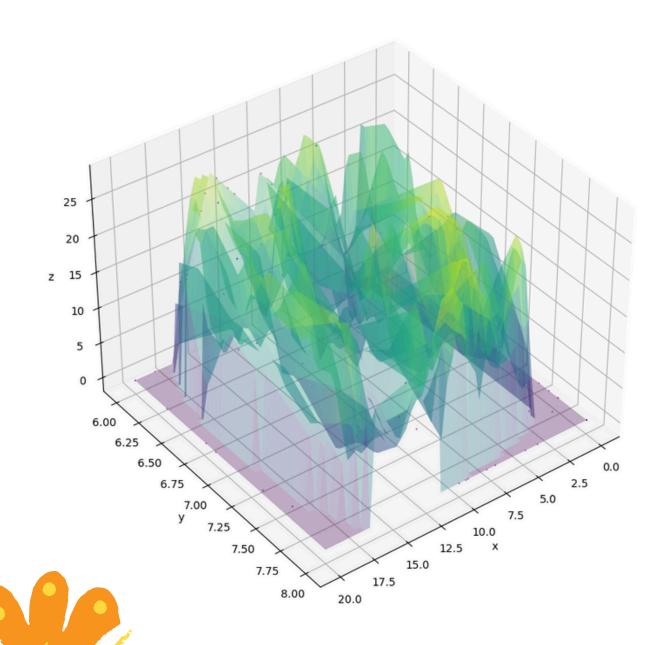
gender

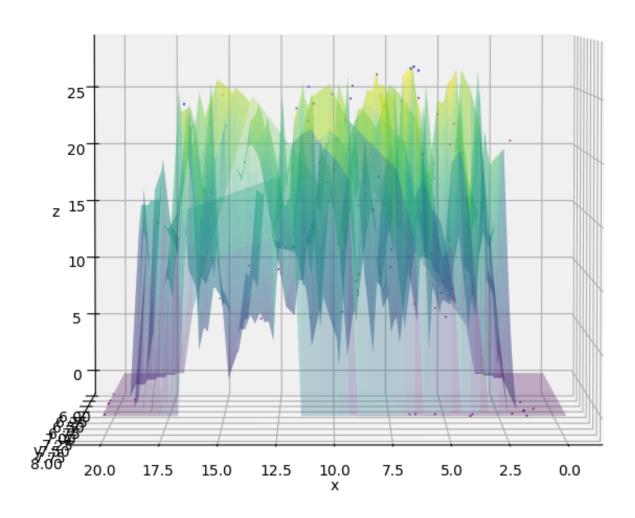
life\_ span



## Result









#### Result

Run		
0	 139	27.999427056393216
1	98	27.99991815025626
2	703	27.99928504957254
3	216	27.999157039752564
4	60	27.99928158451592

Iterations Average 243.2 Standard Deviation 235.65177699308782 Score Average 27.999413776098102 Standard Deviation 0.00026628118279721356 Elapsed time: 00:18:32

Function Griewank

Run	Iterati	on Score
======	======	==========
0	318	27.999524076518977
1	168	27.999559614442738
2	57	27.999515365690065
3	437	27.999175087027734
4	87	27.999253130494523

Iterations Average 213.4 Standard Deviation 143.83129005887417 Score Average 27.99940545483481 Standard Deviation 0.00015886391406179956 Elapsed time: 00:17:11

Function Schwefel)					
Run	Itera	tion	Score		
=====	======	======	=======		
0	45	27.99	9148799462766		
1	50	27.99	9106544341167		
2	48	27.99	900635684201		
3	37	27.99	948616229295		
4	37	27.99	9185658597305		

Iterations Average 43.4 Standard Deviation 5.4626001134990645 Score Average 27.999186704307238 Standard Deviation 0.00016128470747409922 Elapsed time: 00:03:39

Function Easom ------

Run	Iteratio	on Score
0	 41	 27.999120914338164
1	46	27.999413440648528
2	42	27.999101115967495
3	43	27.99960332935487
4	37	27.99925197838138

Iterations Average 41.8 Standard Deviation 2.925747767665559 Score Average 27.999298155738085 Standard Deviation 0.0001890994871856992 Elapsed time: 00:03:25

## Result

Function	Score Average	Standard Deviation	Iterations Average
Schwef el	<b>27.9991</b> 8	0.000161	43.4
Easom	27.99929	0.000189	41.8
Ackley	27.99941	0.000266	243.2
Griewank	27.99940	0.0001589	213.4

# Result - Score Average

Function	Score Average	Standard Deviation	Iterations Average
Schwefel	<b>27.99<u>918</u></b>	0.000161	43.4
Easom	27.99 <u>929</u>	0.000189	41.8
Ackley	27.99 <u>941</u>	0.000266	243.2
Griewank	27.99 <u>940</u>	0.0001589	213.4

### Result - Stand Deviation

Function	Score Average	Standard Deviation	Iterations Average
Schwefel	<b>27.99<u>918</u></b>	0.000161	43.4
Easom	27.99 <u>929</u>	0.000189	41.8
Ackley	27.99 <u>941</u>	0.000266	243.2
Griewank	27.99 <u>940</u>	0.0001589	213.4

Result - Iterations Average

Function	Score Average	Standard Deviation	Iterations Average
Schwef el	<b>27.9991</b> 8	0.000161	43.4
Easom	27.99929	0.000189	41.8
Ackley	27.99941	0.000266	243.2
Griewank	27.99940	0.0001589	213.4

## Result - Best Result

Function	Score Average	Standard Deviation	Iterations Average
Schwef el	<b>27.99<u>918</u></b>	0.000161	43.4
Easom	27.99 <u>929</u>	0.000189	41.8
Ackley	27.99 <u>941</u>	0.000266	243.2
Griewank	27.99 <u>940</u>	0.0001589	213.4







