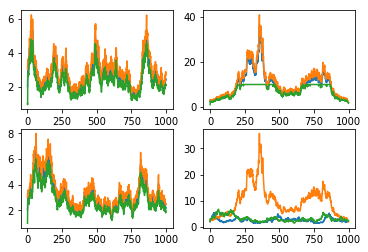
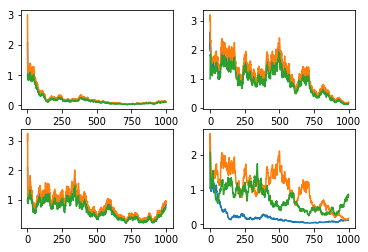
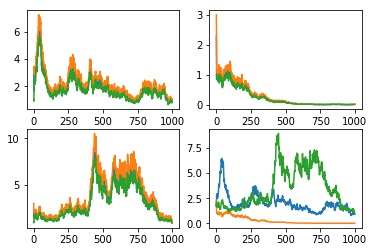
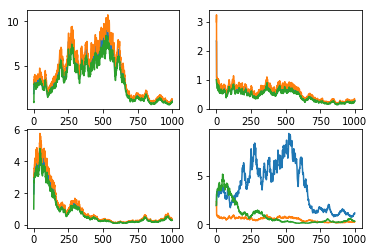
Version ohne Verhaltensparameter

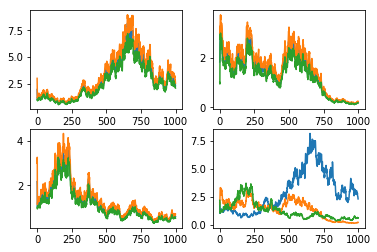
*Statistiken für die Eigenschaften Geschwindigkeit (oben links), Größe (oben rechts), Sichtweite (unten links) und die Durchschnitte dieser aufeinandergelegt (unten rechts). Jeweils Generation (x-Achse) zu Eigenschaftswert (y-Achse).   
Orange: Maximalwert der Generation, Blau: Durchschnitt der Generation, grün: Minimum der Generation*

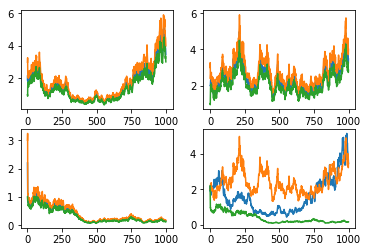


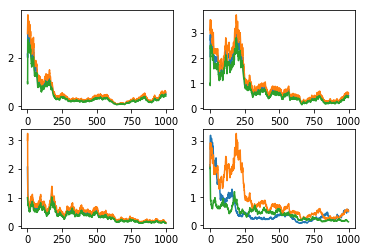


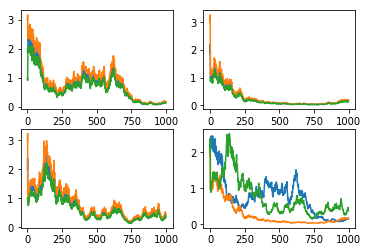


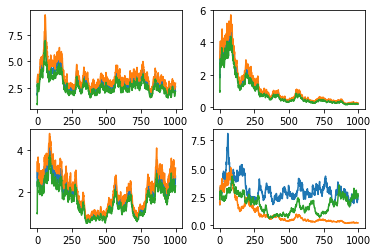


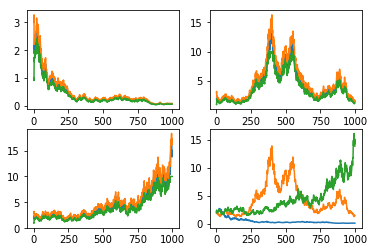






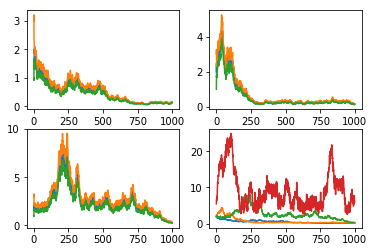


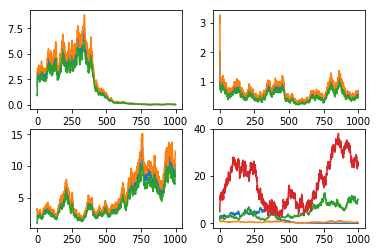


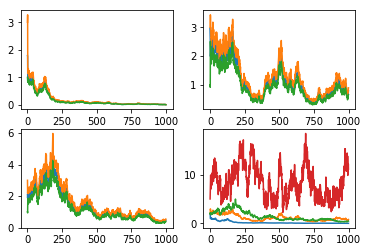


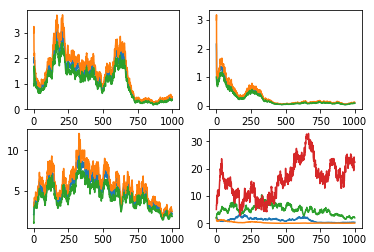
Version Verhalten durch Polynome enthalten

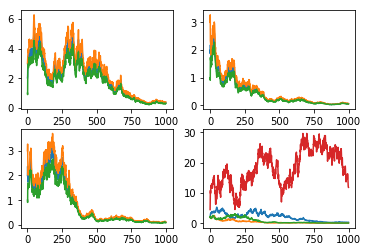
*Statistiken für die Eigenschaften Geschwindigkeit (oben links), Größe (oben rechts), Sichtweite (unten links) und die Durchschnitte dieser aufeinandergelegt (unten rechts). Jeweils Generation (x-Achse) zu Eigenschaftswert (y-Achse). Kreaturen bewegen sich aufgrund von Polynomen. orange: Maximalwert der Generation, blau: Durchschnitt der Generation, grün: Minimum der Generation, rot: länge des Polynoms.*

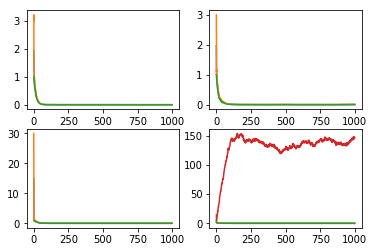


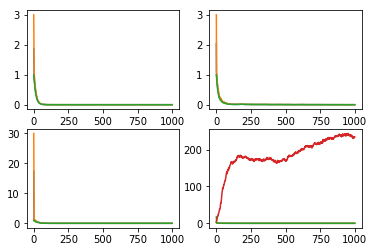


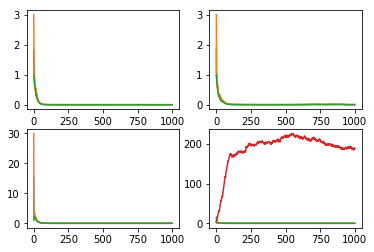


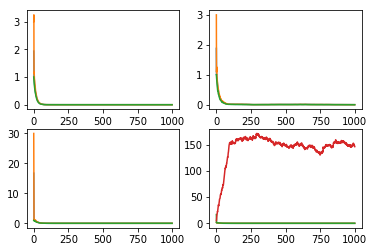


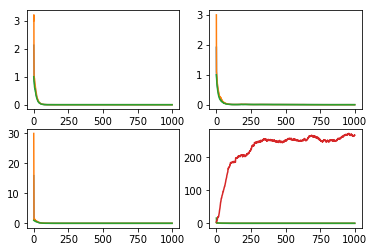












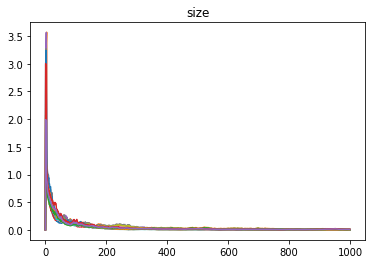
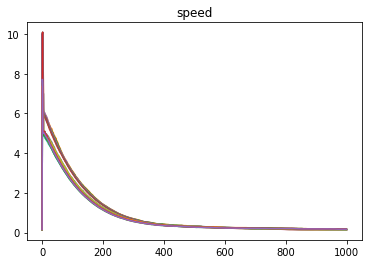
Beispielpolynom:

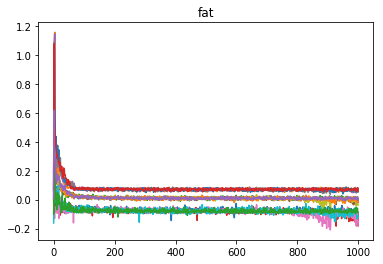
*Aufgebaut als Liste in Liste: der jeweils erste Wert stellt den Koeffizienten dar, der zweite die Potenz des jeweiligen Monoms. Eingesetzt wird die Ausfüllung des Sichtfeldes.*

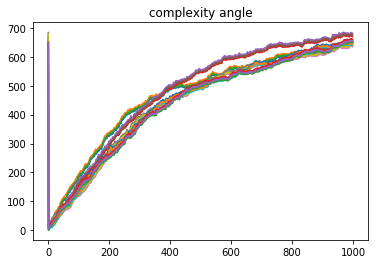
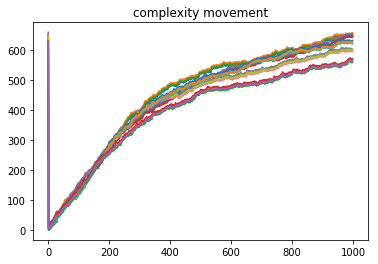
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Version 3: Kleinere Veränderungen(Statistiken beschriftet)

*Übereinandergelegte Statistiken von mehreren Durchläufen derselben Programmversion.*

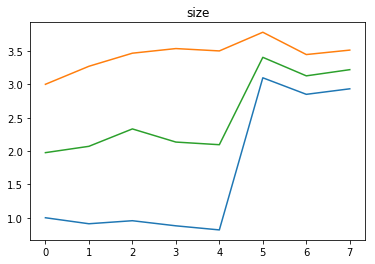
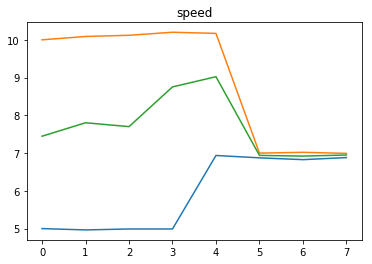


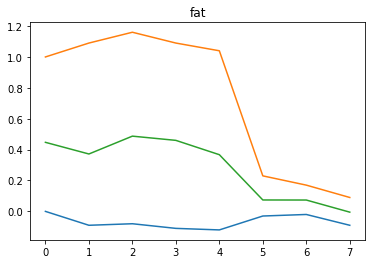
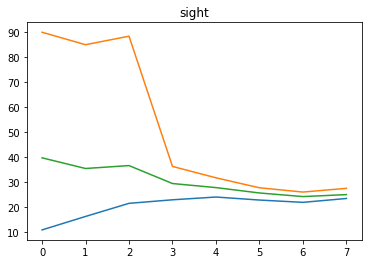


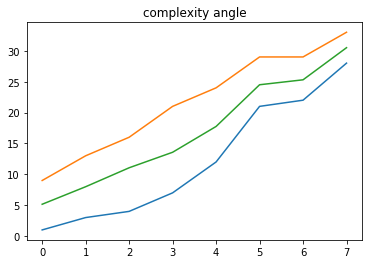
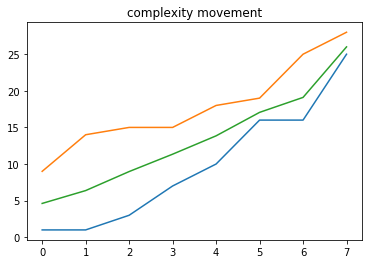


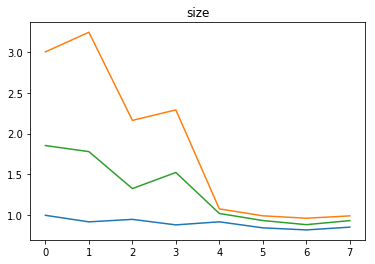
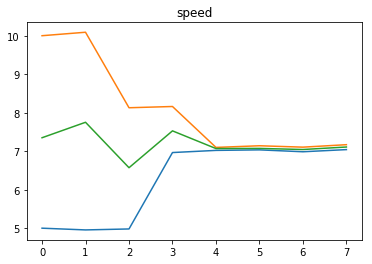
Version 4:

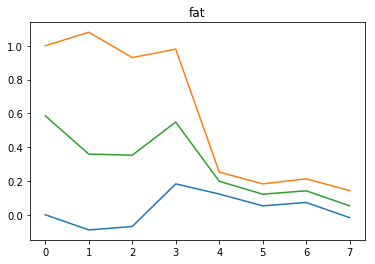
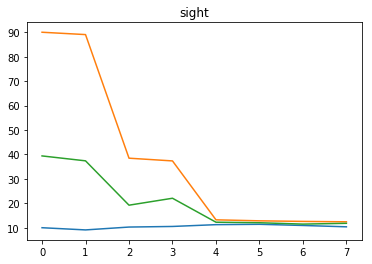
*Fehler im Programm sorgte für nur sehr kurz überlebende Kreaturen*

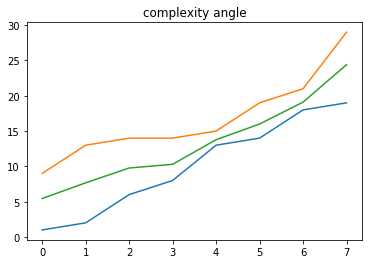
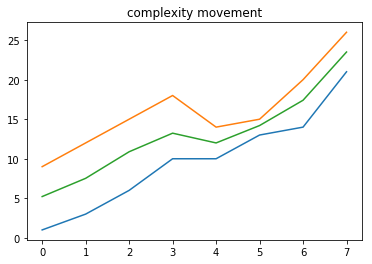


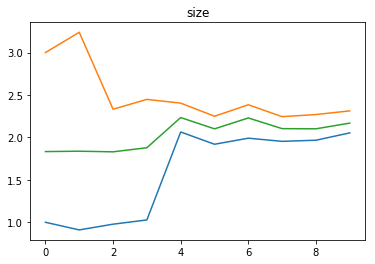
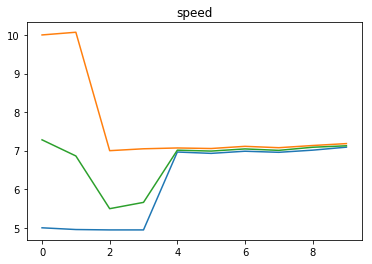


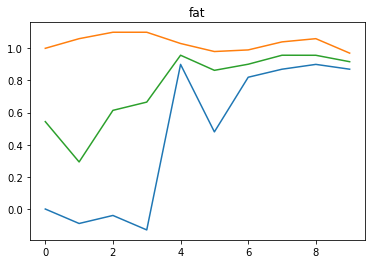
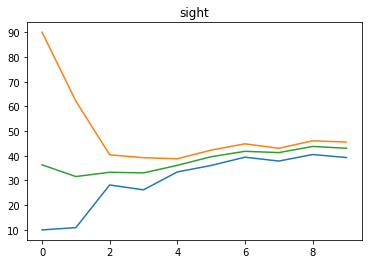


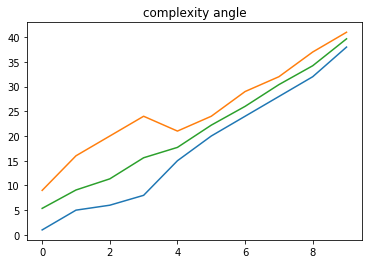
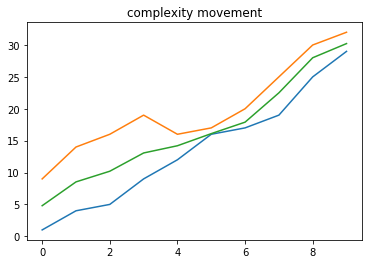






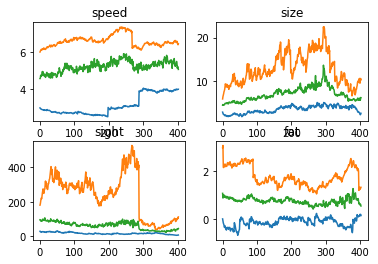


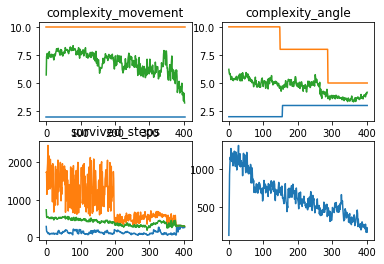


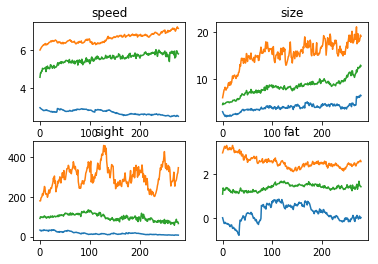


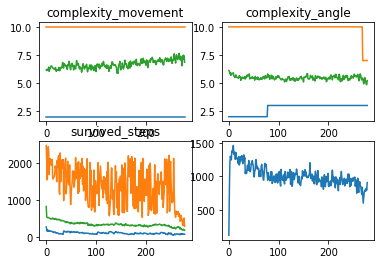
Version 5:

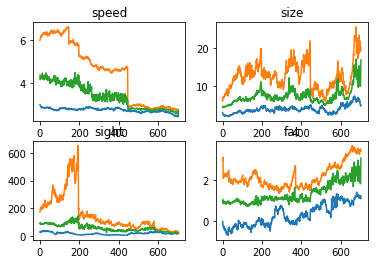
*Lösen des Fehlers und einfügen von den Statistiken überlebte Schritte der Kreatur und Menge an Kreaturen pro Generation (letzter, nur blauer Graph). Spezien überleben immer noch nicht mehr als 800 Generation*

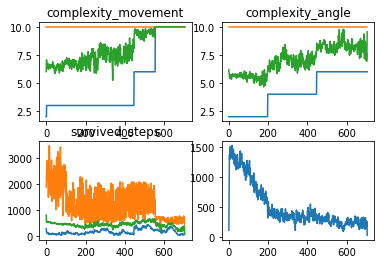


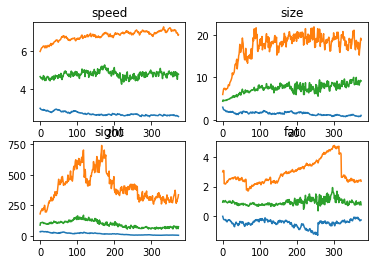


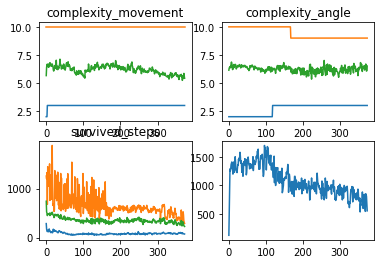


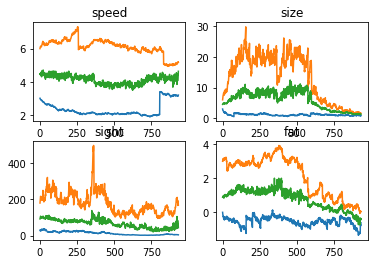


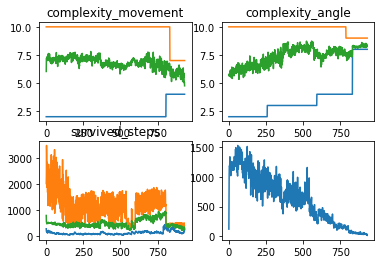








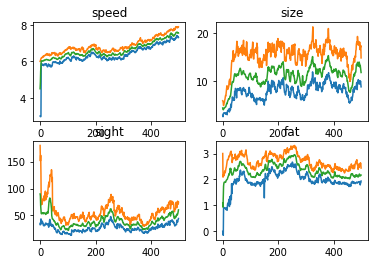


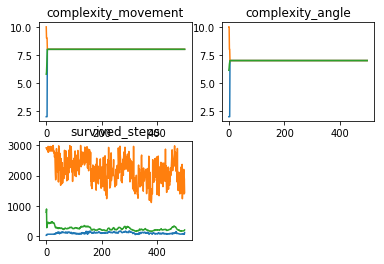


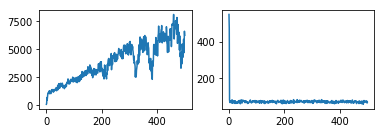
*Die Bewegungen der Kreaturen sind vor allem geradeaus gerichtet, vereinzelt treten auch Kreise auf. Wie man sieht, steigt die Größe der Kreaturen bis zu einem gewissen Punkt, um dann ziemlich plötzlich rapide zu fallen. Zudem sinkt die Kreaturen Anzahl kontinuierlich. Dies liegt vermutlich an der steigenden Größe, durch welche die Kreaturen sich gegenseitig das Futter wegfressen. Fallen dann diese großen Kreaturen weg, da sie ja sterben, sobald sie den Rand erreiche und keine neuen generiert werde, wenn nicht genügend Futter gesammelt wurde, stirbt die Spezies beinahe sicher aus.*

Polynome, unendliche map,

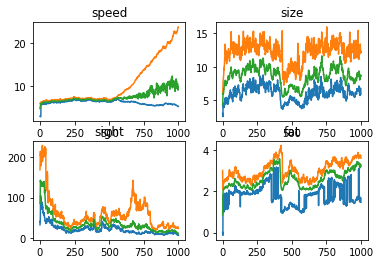
SURVIVED\_STEPS\_FOR\_CHILD=1000 COLLECTED\_FOOD\_FOR\_CHILD=5 MIN\_COLLECTED\_FOOD=2 MIN\_SURVIVED\_STEPS=700

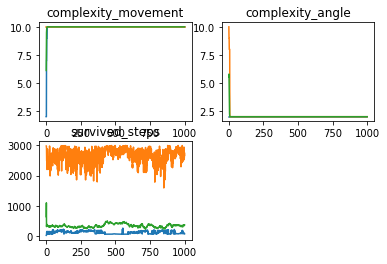


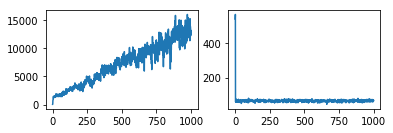




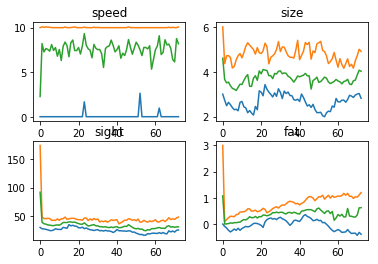
1200 Mapsize, 60 startkreaturen, 2000 start stamina, 2000 food stamina, wenigstens 2 futter, für 5 futter, wenigstens 1000 schritte, für 1300 schritte, 0.2 Food per generation

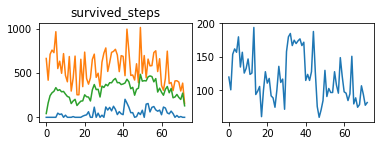


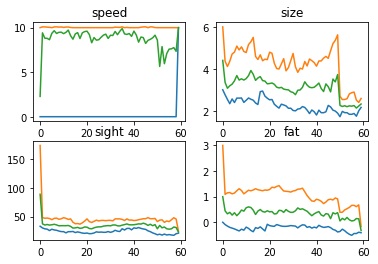


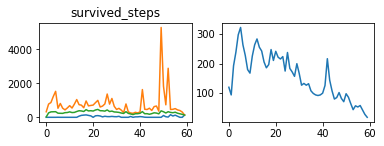


Neuronales Netz 2.2:

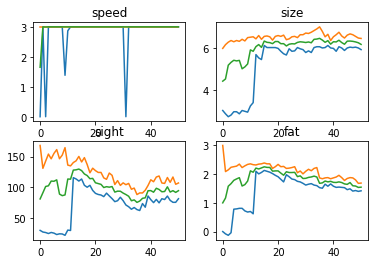


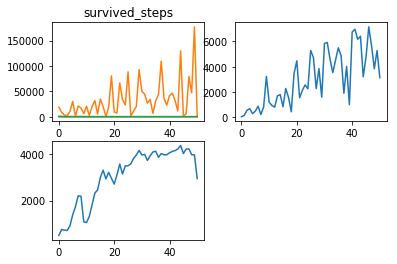




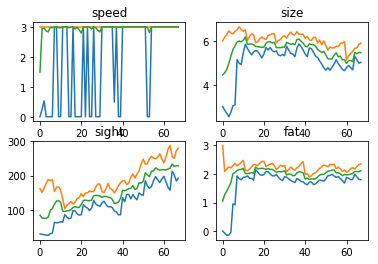


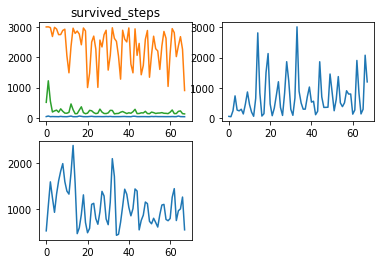
Neuronales netz mit limits  
60 startkreaturen, 2000 start stamina, 700 food stamina, wenigstens 1 futter, für 3 futter, wenigstens 500 schrittee, für 600 schrittte

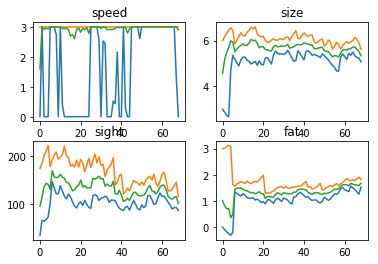


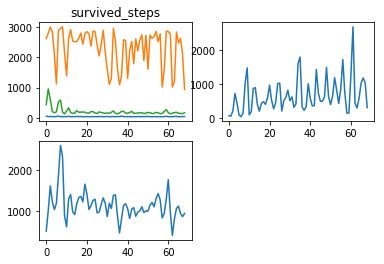


60 startkreaturen, 1700 start stamina, 1200 food stamina, wenigstens 3 futter, für 5futter, wenigstens 1000 schritte, für 1500 schritte, 0.2 Food pro Generation, 0.0015 Fooddensity

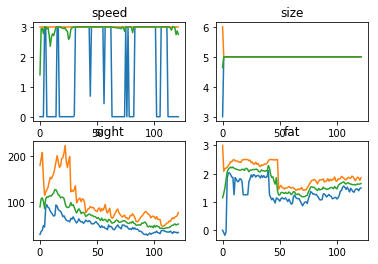


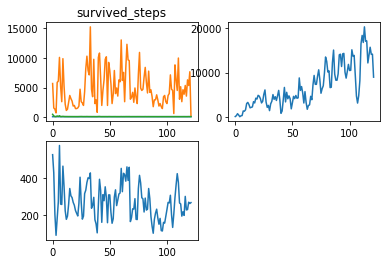


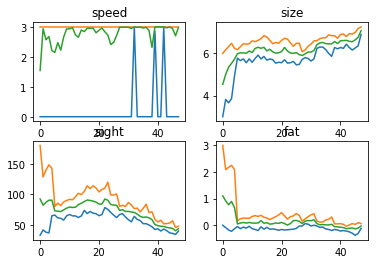


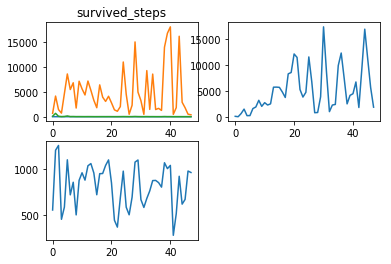


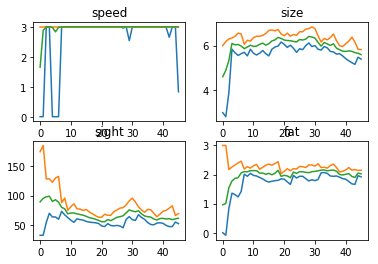
Neuronales Netz: unendlich map:   
*Wie man sieht war hier in den ersten Versuchen die Geschwindigkeit und die Größe relativ fest. Dies wurde in späteren Durchläufen geändert. Hier wurde eingeführt, das übriggebliebenes Futter in der nächsten Generation neues Futter generiert, so ergibt sich eine Variierung der Futtermenge (letzter Graph).*

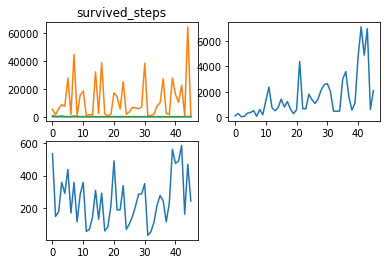




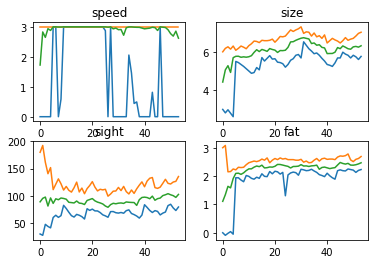


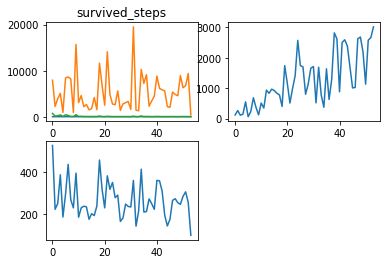


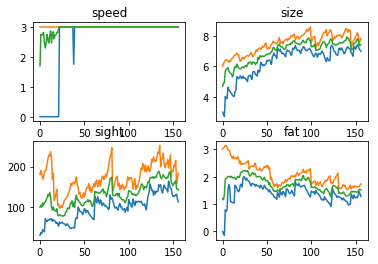


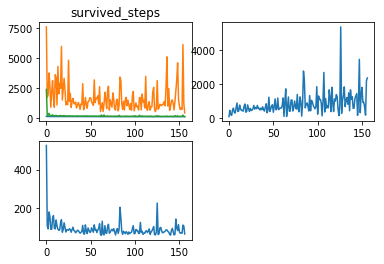


*Die Bewegungen sind zumeist kreisförmig, dieser Kreis verschiebt sich allerdings. Man sieht, dass die Größe der Kreaturen in der Tendenz steigend ist, was dazu führt, dass sie mehr Futter fressen. Wenn dann durch Zufall in einer Generation nicht genügend Futter gefunden wird, sterben die Kreaturen*

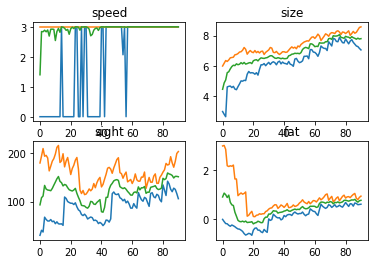
*aus. *

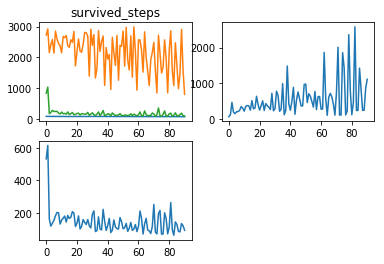
**

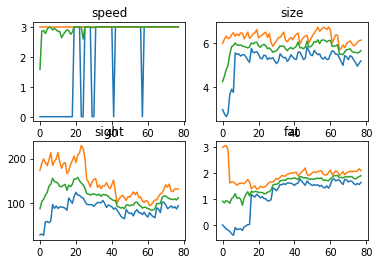
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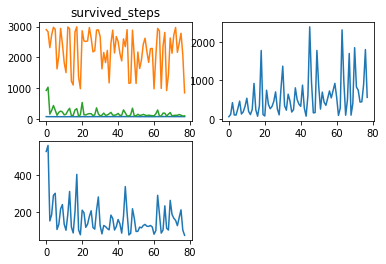
**

Temperatur: -20, SURVIVED\_STEPS\_FOR\_CHILD = 1000 COLLECTED\_FOOD\_FOR\_CHILD = 5 MIN\_COLLECTED\_FOOD = 2 MIN\_SURVIVED\_STEPS = 800

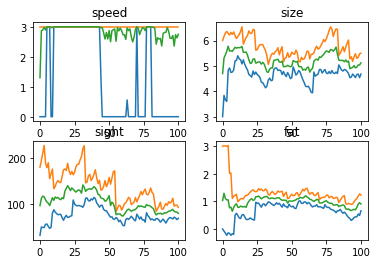
**

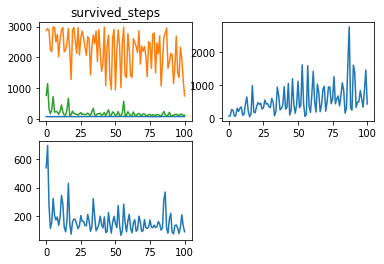
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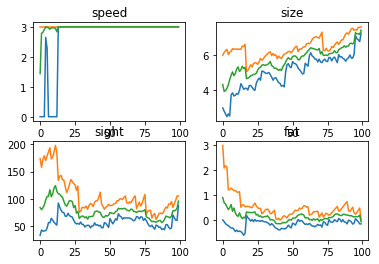
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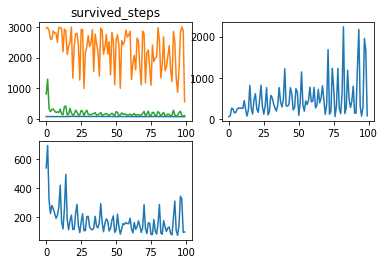
**

60 Kreaturen, 0.0015 Fooddensity, 1000 Startstamina, 800 Foodstamina, -30 Temperatur, Min 2 collected food, for every 8 Food, min 800 Survived Steps, for every 2000 Survived Steps, 0.2 Food

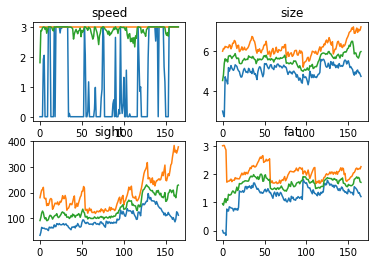
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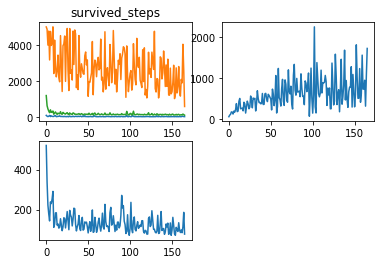
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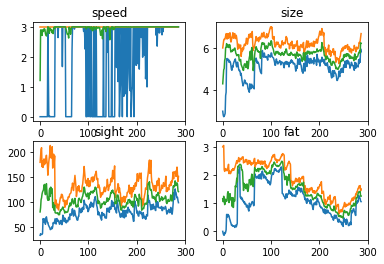
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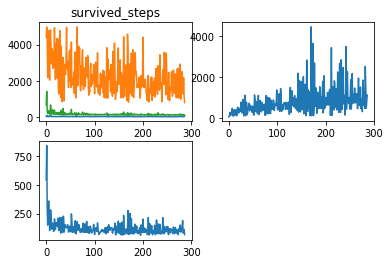
**

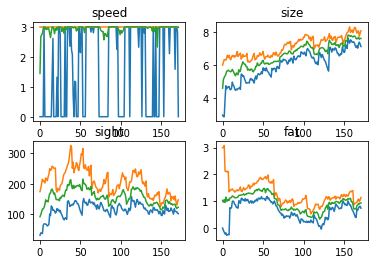
60 Kreaturen, 0.0015 Fooddensity, 1000 Startstamina, 1000 Foodstamina, -30 Temperatur, Min 3 collected food, for every 8 Food, min 800 Survived Steps, for every 2000 Survived Steps, 0.2 Food

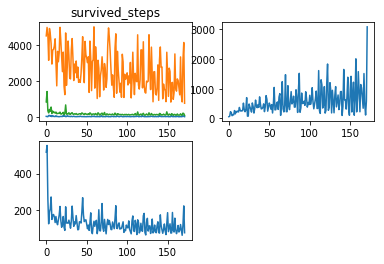
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60 Kreaturen, 0.0015 Fooddensity, 1000 Startstamina, 1000 Foodstamina, -30 Temperatur, Min 3 collected food, for every 8 Food, min 800 Survived Steps, for every 2000 Survived Steps, 0.2 Food

