

Animal Description Generator

Abstract

In this project, we demonstrate text generation by using a character-based RNN. Four layers and LSTM are used to define our model. Our training data includes descriptions of 594 different animals provide by “A-Z Animals” (<http://a-z-animals.com/animals/>), and we train a model to predict the next character in a sequence repeatedly to generate new descriptions of animals.

Technical Approach & Results

We start with a three layer, GRU character-based neural network.

African Clawed Frog

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The African Clawed Frog has also been known to hunt saltors and today  
are nearly anything and free fruit and numerous due to breed unusually  
in the wild, along with its donkeys to be weaned when chasing a series  
of any female Guinea Pig to the constant flying bird (ishants.
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By increasing the temperature parameter a little bit, the result could become more surprising and funnier. Although the variation may make the texts have more grammatically incorrect. Here's what we got with a three-layer, GRU model after adjusting the temperature value:

Roseate Spoonbill

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Despite the fact that demales are unknown as the Person, the Roseate  
Spoonbill is able to hunt people, including fully members and are  
widesprong, devastating large crevices detection, friendly, friendly,  
originally small crustaceans, snails and states in their owners  
againgatory and gacheir exactly how much maintained crocodiles similar  
in packs in much of their native found at a tree or best known.
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Blue-Footed Booby

The blue-footed booby and only comes out until pik shells on river but they are also now listed as an endangered species may Predators around the area of the natural range. However, they can sometime during people, problebs (although the same time of Edybitaty, and ut is however be seen or stand by socialisations in search of Fishing Cattle, domesticated around 1,000 deer and twic) very large rounded ears.

It seems that GRU generates texts well. But when it comes to longer sequences, say, a long sentence, the meaning of the whole sentence does not make much sense. To increase accuracy. We substitute LSTM for GRU and add another layer to the model.

Sun Bear X Domestic Horse

Sun Bears are also known to eat the fruits and flowers are often cross-bred with domestic Horse, the Humboldt penguin and the emperor penguin, which gets to an average adult Bobcat only have to be pushed into only a few fertility and known.

Red Seal

The red seal is a species of Lemur breed, following the Arabian deserts, along with a number of antelope wore as a reworfected makes it wader down during which leads to their name in the wild. There are thought to be less than 8,000 individuals are extremely rared and consistent that there are four main subspecies of tiger in isolated populations in defending on the region where they lived into the wet and unsustale.

Let's see if LTMS can bring us some reasonable and surprising results with increasing the value of the temperature:

Common Toad

The common toad is known to survive and therefore spend a lot of time roaming Britain in 1993. Despite their long and gentle, friendly animals that pant, it referred to active monastery eggs individually not just in the their throats which it causes the body of the queen) and the t the s an exceptional speed of truck. Rocks are commonly consuming it remains starts do this with Humans Since the 1950stir scaledwoweever rather than female blue-fly north water knons hunting the African continent, to other Mongoose species, which has led to whales mean that Orang-utan, and all reptiles.Maging for food in the hot summers.

Magellanic Penguin

The Magellanic penguin iale is generally used to refer to attracted the carcass is thought to not just grind the leaves from any marked teeth which can cause relationship within these origination to solid foods.

More generated results with four layers, LTMS are shown below:

Description 1 :

The breeding of dark size and its larger se.s are completely extinct from caring the surrounding trees and the butterfly species is their wild sit to depend on the leaves. The hands and feet of the gecko are considered to be vulnerable in their native habitats.

Description 2 :

The woodlouse is found in warmer areas such as peacocks and Florida to Puffins and even in large summer. Due to the fact that the constant dog ey eye Asian Giant Hornet, the Argentine horned frog will airborne climb with the average gestations per herding snouts and open woodland on is a tropical islands.

Description 3 :

The spider monkey mainly feeds on algae and brine shrimp diet. In order to help to gather in vegetation although are listed os with the north and souther in colour. The macaroni penguin is the most dominant predator within its environment, mainly hunting more species of fish, crabs, but the bactrian camel is considered to be an endangered species and although they are severely threatened by deforestation of their habitats.

Description 4 :

The grey seal also has grently to nearly 20cm in their natural habitats. Little is known about the projections of common Zoom that cooled bears then begin to venture out with their mother until they are a year old. Today, many of the spaniel breeding season, particularly those of a hybrid of more than 800 r babys free shock during the night.

Description 5 :

The grey reef shark is one of the most popular frigatebird species. The Hercules beetle is the largest caiman lizard in the world behind the dark nights which it takes the red wolf packs under the skin native breeds. The diet of the crane inhabit a keen sense of smell that it has n although some species of sea turtle as the Niare November of these features 15 different species often results in their young being studied as vulnerable calls.

Description 6 :

The great roughly 16 years and 10 years old in captivity. The kiwi is the one who will in the area (also known as the baboon which is present on the environment and therefore spread diseases to the African penguin, the opossum as they are often hunted and eaten.

Description 7 :

The grey reef shark is also preyed upon by small mammals and reptiles. Emus tend to live in using their long sticky tongue, often able to feed for their food. Both hunting and habitat loss are the most commonly kept for show, many primates including Humans and Enteracting larger predators.

Description 8 :

The breed is an envidonment so they can still breathe but without having to slow down, rich waters around the coast of South Africa and on only two islands off the Coyote's scientific name with the remaining since the introduction of competition for food.

Description 9 :

The brown bear has many of the hormone inhabits. The woodlouse is primarily found around the English Bulldog, and are known to actually range from predators but the American Bulldog was on the vast number of Madagascar, adult bonobos can retract its limbs into its shell to retain anywnerally in colour than older imports and the gas along with them.

Description 10 :

The gorilla nowby been reefish given usually facility (imerican continent today.According to the world's other insect across the continent.Hine-was 100 learning the group on the ground. There is only forage for varying active for a healthy deer meat, milk and skins.

Description 11 :

The gopher toles wait until they hatch. In more enormous anacoming places to get to a few inches in length. Stoats can occul with its owner further down the found and moult in the water left alonethere). Food is fed into its mouth using their throat to both moths and the water buffalo to climb heavily built body as well.

Description 12 :

The grey seal mums leave a short and stocky legs, with a great deal of sugnified and playful and reinfor smaller birds in the world with the average female impala does not hibernate including water starts anch loss and hunting parrots, rocky plains in matter of days.

Description 13 :

The back is tiny! The gophers are said to be able to catch and kill animals that are discovered. Lions and Leopards weigh around 6 months old, although be threatened by inbreeding leades. The webbed feet of the rod of the female starfish larvae than their parents.

Description 14 :

The gorilla is famous for the incredible height in the water. The story of the Siberian cat is a cream coloured tail facility to retain any endangered species, toads can be identified by the yet oldest to trophies being considered to be endangered. The different species of wallaby is often seen night in pursuit the water when they are around hunting and pulling heavy loads due to their sharp front teeth which the desert regions of South America.

Description 15 :

The domestic pig easily identify both for the Umbrellabird compared to other gorillas. The kudu has three hairs for extinction in the wild, the marine toad usually mate in the wild in the near future due to the fact that female African Bush Elephants reach sexual maturity (comparable to humans).

Description 16 :

The broad reptile was named after the mining town of coral reefs and along the continental shelf. However, of which have been seriously known as the blow hunting of themales could come down to the ground to go for long periods of time. They are naturally many different species of beetle found all over the body, which gives the swan to the land foraging marsh and a been depicted but only the native features that it has domestic dogs) and interesting Facts and Features Although natural giant African land snails have been known to travel more than double the size of a The Persian cat make it to be brushed regularly in order to keep them warm.

Description 17 :

There are severely threatened on there and continental or delivered in the hunt noise of the males. They are very loud, and remarkably, mountain gorillas but will defend their paws and gases that vary in the softer Arctic winters. The main reason for the drastic floating water so that it can often emerge from the body of the moose.

Description 18 :

The grey seal has very popular fish. The striped rocket frog has been listed by the IUCN Red List as an animal that is Vulnerable in its surrounding environment. The Arctic hare is therefore found naturally known as Hight including competition for food and nesting swimmers, sea urchins are ganded as quickly as the sea urchin (although as with an American Lion on the open grasslands in western-cennest Koaca.

Description 19 :

The brown bear and the brown bear predominantly eats plant matter including haking of the eggs after just after the water when it is in fact increasing levels of water and forest three parts. Female turkeys use their strong fennels covered in short supply and worillas, where there could be as few as 50,000 mised Komodo Dragons are being pushed into increasingly is that 9,000 Water-Spalia and family from the head of the gibbon's digest that it can also be found living high in the canopy but will not mate with a male Jodely rockhopper penguin is one of the great apes, a group that include the waters in the worlds oceans, the booby will therefore find a great canopy and should be killed by poachers, caimans and elaborate species.

Description 20 :

The Humboldt penguin is one of the few penguin species in Leopards in the Southern Hemisphere. The thing of the smallest female mountain lion gives birth to one to look into four categories with the exception of occasionally be able to leaping their protective quetns much more echinnd in its surrounding water in order to survive.