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References

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Temperature: 0.2

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References

Pelutizing USM Affinal Arsoling contral nuckers

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200 Epochs

Epoch 1/200

10/10 [=====] - 25s 2s/step - loss: 5.2083

Epoch 2/200

10/10 [=====] - 25s 3s/step - loss: 3.3649

Epoch 3/200

10/10 [=====] - 26s 3s/step - loss: 3.3489

Epoch 4/200

10/10 [=====] - 25s 3s/step - loss: 3.2192

Epoch 5/200

10/10 [=====] - 25s 3s/step - loss: 3.2745

Epoch 6/200

10/10 [=====] - 25s 3s/step - loss: 3.0790

Epoch 7/200

10/10 [=====] - 25s 2s/step - loss: 3.0456

Epoch 8/200

10/10 [=====] - 25s 2s/step - loss: 2.9448

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Epoch 9/200
10/10 [=====] - 27s 3s/step - loss: 2.9079
Epoch 10/200
10/10 [=====] - 25s 3s/step - loss: 2.8196
Epoch 11/200
10/10 [=====] - 25s 3s/step - loss: 2.7474
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10/10 [=====] - 26s 3s/step - loss: 2.3326
Epoch 35/200
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Epoch 36/200
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Sample

First article
=====

Title:

Joseph Greenberg

Text:

Joseph Harold Greenberg (May 28, 1915 - May 7, 2001) was an American linguist, known mainly for his work concerning linguistic typology and the genetic classification of languages.

Life

Early life and education

Joseph Greenberg was born on May 28, 1915 to Jewish parents in Brooklyn, New York. His first great interest was music. At the age of 14, he gave a piano concert in Steinway Hall. He continued to play the piano frequently throughout his life.

After finishing high school, he decided to pursue a scholarly career rather than a musical one. He enrolled at Columbia University in New York. During his senior year, he attended a class taught by Franz Boas concerning American Indian languages. With references from Boas and Ruth Benedict, he was accepted as a graduate student by Melville J. Herskovits at Northwestern University in Chicago. During the course of his graduate studies, Greenberg did fieldwork among the Hausa people of Nigeria, where he learned the Hausa language. The subject of his doctoral dissertation was the influence of Islam on a Hausa group that, unlike most others, had not converted to it.

During 1940, he began postdoctoral studies at Yale University. These were interrupted by service in the U.S. Army Signal Corps during World War II, for which he worked as a codebreaker and participated with the landing at Casablanca. Before leaving for Europe during 1943, Greenberg married Selma Berkowitz, whom he had met during his first year at Columbia University.

Career

After the war, Greenberg taught at the University of Minnesota before returning to Columbia University during 1948 as a teacher of anthropology. While in New York, he became acquainted with Roman Jakobson and André

Martinet. They introduced him to the Prague school of structuralism, which influenced his work.

During 1962, Greenberg relocated to the anthropology department of Stanford University in California, where he continued to work for the rest of his life. During 1965 Greenberg served as president of the African Studies Association. He received during 1996 the highest award for a scholar in Linguistics, the Gold Medal of Philology.

Contributions to linguistics

Linguistic typology

Greenberg's reputation rests partly on his contributions to synchronic linguistics and the quest to identify linguistic universals. During the late 1950s, Greenberg began to examine languages covering a wide geographic and genetic distribution. He located a number of interesting potential universals as well as many strong cross-linguistic tendencies.

In particular, Greenberg conceptualized the idea of "implicational universal", which has the form, "if a language has structure X, then it must also have structure Y." For example, X might be "mid front rounded vowels" and Y "high front rounded vowels" (for terminology see phonetics). Many scholars adopted this kind of research following Greenberg's example and it remains important in synchronic linguistics.

Like Noam Chomsky, Greenberg sought to discover the universal structures on which human language is based. Unlike Chomsky, Greenberg's method was functionalist, rather than formalist. An argument to reconcile the Greenbergian and Chomskyan methods can be found in *Linguistic Universals* (2006), edited by Ricardo Mairal and Juana Gil .

Many who are strongly opposed to Greenberg's methods of language classification (see below) acknowledge the importance of his typological work. During 1963 he published an article that was extremely influential: "Some universals of grammar with particular reference to the order of meaningful elements".

Mass comparison

Greenberg rejected the opinion, prevalent among linguists since the mid-20th century, that comparative reconstruction was the only method to discover relationships between languages. He argued that genetic classification is methodologically prior to comparative reconstruction, or the first stage of it: one cannot engage in the comparative reconstruction of languages until one knows which languages to compare (1957:44).

He also criticized the prevalent opinion that comprehensive comparisons of two languages at a time (which commonly take years to perform) could establish language families of any size. He argued that, even for 8 languages, there are already 4,140 ways to classify them into distinct families, while for 25 languages there are 4,749,027,089,305,918,018 ways (1957:44). For comparison, the Niger-Congo family is said to have some 1,500 languages. He thought language families of any size needed to be

established by some scholastic means other than bilateral comparison. The theory of mass comparison is an attempt to demonstrate such means.

Greenberg argued for the virtues of breadth over depth. He advocated restricting the amount of material to be compared (to basic vocabulary, morphology, and known paths of sound change) and increasing the number of languages to be compared to all the languages in a given area. This would make it possible to compare numerous languages reliably. At the same time, the process would provide a check on accidental resemblances through the sheer number of languages under review. The mathematical probability that resemblances are accidental decreases strongly with the number of languages concerned (1957:39).

Greenberg used the premise that mass "borrowing" of basic vocabulary is unknown. He argued that borrowing, when it occurs, is concentrated in cultural vocabulary and clusters "in certain semantic areas", making it easy to detect (1957:39). With the goal of determining broad patterns of relationship, the idea was not to get every word right but to detect patterns. From the beginning with his theory of mass comparison, Greenberg addressed why chance resemblance and borrowing were not obstacles to its being useful. Despite that, critics consider those phenomena caused difficulties for his theory.

Greenberg first termed his method "mass comparison" in an article of 1954 (reprinted in Greenberg 1955). As of 1987, he replaced the term "mass comparison" with "multilateral comparison", to emphasize its contrast with the bilateral comparisons recommended by linguistics textbooks. He believed that multilateral comparison was not in any way opposed to the comparative method, but is, on the contrary, its necessary first step (Greenberg, 1957:44). According to him, comparative reconstruction should have the status of an explanatory theory for facts already established by language classification (Greenberg, 1957:45).

Most historical linguists (Campbell 2001:45) reject the use of mass comparison as a method for establishing genealogical relationships between languages. Among the most outspoken critics of mass comparison have been Lyle Campbell, Donald Ringe, William Poser, and the late R. Larry Trask.

Genetic classification of languages

Languages of Africa

Greenberg is known widely for his development of a classification system for the languages of Africa, which he published as a series of articles in the Southwestern Journal of Anthropology from 1949 to 1954 (reprinted together as a book, *The Languages of Africa*, in 1955). He revised the book and published it again during 1963, followed by a nearly identical edition of 1966 (reprinted without change during 1970). A few more changes of the classification were made by Greenberg in an article during 1981.

Greenberg grouped the hundreds of African languages into four families, which he dubbed Afroasiatic, Nilo-Saharan, Niger-Congo, and Khoisan. During the course of his work, Greenberg invented the term "Afroasiatic" to replace the earlier term "Hamito-Semitic", after showing that the

Hamitic group, accepted widely since the 19th century, is not a valid language family. Another major feature of his work was to establish the classification of the Bantu languages, which occupy much of sub-Saharan Africa, as a part of the Niger-Congo family, rather than as an independent family as many Bantuists had maintained.

Greenberg's classification rested largely in evaluating competing earlier classifications. For a time, his classification was considered bold and speculative, especially the proposal of a Nilo-Saharan language family. Now, apart from Khoisan, it is generally accepted by African specialists and has been used as a basis for further work by other scholars.

Greenberg's work on African languages has been criticised by Lyle Campbell and Donald Ringe, who do not believe that his classification is justified by his data and request a re-examination of his macro-phyla by "reliable methods" (Ringe 1993:104). Harold Fleming and Lionel Bender, who were sympathetic to Greenberg's classification, acknowledged that at least some of his macrofamilies (particularly the Nilo-Saharan and the Khoisan macrofamilies) are not accepted completely by most linguists and may need to be divided (Campbell 1997). Their objection was methodological: if mass comparison is not a valid method, it cannot be expected to have brought order successfully out of the confusion of African languages.

By contrast, some linguists have sought to combine Greenberg's four African families into larger units. In particular, Edgar Gregersen (1972) proposed joining Niger-Congo and Nilo-Saharan into a larger family, which he termed Kongo-Saharan. Roger Blench (1995) suggests Niger-Congo is a subfamily of Nilo-Saharan.

The languages of New Guinea, Tasmania, and the Andaman Islands

During 1971 Greenberg proposed the Indo-Pacific macrofamily, which groups together the Papuan languages (a large number of language families of New Guinea and nearby islands) with the native languages of the Andaman Islands and Tasmania but excludes the Australian Aboriginal languages. Its principal feature was to reduce the manifold language families of New Guinea to a single genetic unit. This excludes the Austronesian languages, which have been established as associated with a more recent migration of people.

Greenberg's subgrouping of these languages has not been accepted by the few specialists who have worked on the classification of these languages. However, the work of Stephen Wurm (1982) and Malcolm Ross (2005) has provided considerable evidence for his once-radical idea that these languages form a single genetic unit. Wurm stated that the lexical similarities between Great Andamanese and the West Papuan and Timor-Alor families "are quite striking and amount to virtual formal identity [...] in a number of instances." He believes this to be due to a linguistic substratum.

The languages of the Americas

Most linguists concerned with the native languages of the Americas classify them into 150 to 180 independent language families. Some believe

that two language families, Eskimo-Aleut and Na-Dené, were distinct, perhaps the results of later migrations into the New World.

Early on, Greenberg (1957:41, 1960) became convinced that many of the language groups considered unrelated could be classified into larger groupings. In his 1987 book *Language in the Americas*, while agreeing that the Eskimo-Aleut and Na-Dené groupings as distinct, he proposed that all the other Native American languages belong to a single language macro-family, which he termed Amerind.

Language in the Americas has generated lively debate, but has been criticized strongly; it is rejected by most specialists of indigenous languages of the Americas and also by most historical linguists. Specialists of the individual language families have found extensive inaccuracies and errors in Greenberg's data, such as including data from non-existent languages, erroneous transcriptions of the forms compared, misinterpretations of the meanings of words used for comparison, and entirely spurious forms.

Historical linguists also reject the validity of the method of multilateral (or mass) comparison upon which the classification is based. They argue that he has not provided a convincing case that the similarities presented as evidence are due to inheritance from an earlier common ancestor rather than being explained by a combination of errors, accidental similarity, excessive semantic latitude in comparisons, borrowings, onomatopoeia, etc.

However, Harvard geneticist David Reich notes that recent genetic studies have identified patterns that support Greenberg's Amerind classification: the "First American" category. "The cluster of populations that he predicted to be most closely related based on language were in fact verified by the genetic patterns in populations for which data are available." Nevertheless, this category of "First American" people also interbred with and contributed a significant amount of genes to the ancestors of both Eskimo-Aleut and Na-Dené populations, with 60% and 90% "First American" DNA respectively constituting the genetic makeup of the two groups.

The languages of northern Eurasia

Later in his life, Greenberg proposed that nearly all of the language families of northern Eurasia belong to a single higher-order family, which he termed Eurasiatic. The only exception was Yeniseian, which has been related to a wider Dené-Caucasian grouping, also including Sino-Tibetan. During 2008 Edward Vajda related Yeniseian to the Na-Dené languages of North America as a Dené-Yeniseian family.

The Eurasiatic grouping resembles the older Nostratic groupings of Holger Pedersen and Vladislav Illich-Svitych by including Indo-European, Uralic, and Altaic. It differs by including Nivkh, Japonic, Korean, and Ainu (which the Nostraticists had excluded from comparison because they are single languages rather than language families) and in excluding Afroasiatic. At about this time, Russian Nostraticists, notably Sergei

Starostin, constructed a revised version of Nostratic. It was slightly larger than Greenberg's grouping but it also excluded Afroasiatic.

Recently, a consensus has been emerging among proponents of the Nostratic hypothesis. Greenberg basically agreed with the Nostratic concept, though he stressed a deep internal division between its northern 'tier' (his Eurasiatic) and a southern 'tier' (principally Afroasiatic and Dravidian).

The American Nostraticist Allan Bomhard considers Eurasiatic a branch of Nostratic, alongside other branches: Afroasiatic, Elamo-Dravidian, and Kartvelian. Similarly, Georgiy Starostin (2002) arrives at a tripartite overall grouping: he considers Afroasiatic, Nostratic and Elamite to be roughly equidistant and more closely related to each other than to any other language family. Sergei Starostin's school has now included Afroasiatic in a broadly defined Nostratic. They reserve the term Eurasiatic to designate the narrower subgrouping, which comprises the rest of the macrofamily. Recent proposals thus differ mainly on the precise inclusion of Dravidian and Kartvelian.

Greenberg continued to work on this project after he was diagnosed with incurable pancreatic cancer and until he died during May 2001. His colleague and former student Merritt Ruhlen ensured the publication of the final volume of his Eurasiatic work (2002) after his death.

Selected works by Joseph H. Greenberg

Books

(Photo-offset reprint of the SJA articles with minor corrections.)

(Heavily revised version of Greenberg 1955. From the same publisher: second, revised edition, 1966; third edition, 1970. All three editions simultaneously published at The Hague by Mouton & Co.)

(Reprinted 1980 and, with a foreword by Martin Haspelmath, 2005.)

Books (editor)

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References

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References

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References

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10/10 [=====] - 24s 2s/step - loss: 2.1106
Epoch 97/250
10/10 [=====] - 24s 2s/step - loss: 1.9840
Epoch 98/250
10/10 [=====] - 25s 2s/step - loss: 1.9675
Epoch 99/250
10/10 [=====] - 25s 2s/step - loss: 1.9149
Epoch 100/250
10/10 [=====] - 24s 2s/step - loss: 1.9112
Epoch 101/250
```

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10/10 [=====] - 25s 2s/step - loss: 1.9349
Epoch 102/250
10/10 [=====] - 25s 3s/step - loss: 1.9771
Epoch 103/250
10/10 [=====] - 25s 2s/step - loss: 1.8550
Epoch 104/250
10/10 [=====] - 24s 2s/step - loss: 1.8950
Epoch 105/250
10/10 [=====] - 25s 3s/step - loss: 1.9072
Epoch 106/250
10/10 [=====] - 25s 2s/step - loss: 1.9473
Epoch 107/250
10/10 [=====] - 25s 3s/step - loss: 1.9318
Epoch 108/250
10/10 [=====] - 25s 2s/step - loss: 1.9170
Epoch 109/250
10/10 [=====] - 25s 2s/step - loss: 1.9225
Epoch 110/250
10/10 [=====] - 24s 2s/step - loss: 1.8366
Epoch 111/250
10/10 [=====] - 25s 2s/step - loss: 1.8814
Epoch 112/250
10/10 [=====] - 25s 3s/step - loss: 1.9211
Epoch 113/250
10/10 [=====] - 24s 2s/step - loss: 1.9544
Epoch 114/250
10/10 [=====] - 25s 3s/step - loss: 1.8938
Epoch 115/250
10/10 [=====] - 25s 2s/step - loss: 1.8399
Epoch 116/250
10/10 [=====] - 24s 2s/step - loss: 1.8616
Epoch 117/250
10/10 [=====] - 25s 3s/step - loss: 1.8314
Epoch 118/250
10/10 [=====] - 24s 2s/step - loss: 2.0410
Epoch 119/250
10/10 [=====] - 25s 2s/step - loss: 1.8825
Epoch 120/250
10/10 [=====] - 25s 2s/step - loss: 1.8274
Epoch 121/250
10/10 [=====] - 25s 3s/step - loss: 1.8655
Epoch 122/250
10/10 [=====] - 25s 3s/step - loss: 1.8579
Epoch 123/250
10/10 [=====] - 24s 2s/step - loss: 1.8928
Epoch 124/250
10/10 [=====] - 25s 2s/step - loss: 1.8310
Epoch 125/250
10/10 [=====] - 25s 3s/step - loss: 1.8139
Epoch 126/250
10/10 [=====] - 25s 2s/step - loss: 1.8414
Epoch 127/250
10/10 [=====] - 25s 3s/step - loss: 1.8010
Epoch 128/250
```

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10/10 [=====] - 24s 2s/step - loss: 1.8098
Epoch 129/250
10/10 [=====] - 24s 2s/step - loss: 1.8130
Epoch 130/250
10/10 [=====] - 24s 2s/step - loss: 1.8473
Epoch 131/250
10/10 [=====] - 25s 2s/step - loss: 1.8190
Epoch 132/250
10/10 [=====] - 24s 2s/step - loss: 1.8306
Epoch 133/250
10/10 [=====] - 24s 2s/step - loss: 1.8186
Epoch 134/250
10/10 [=====] - 24s 2s/step - loss: 1.7855
Epoch 135/250
10/10 [=====] - 24s 2s/step - loss: 1.9705
Epoch 136/250
10/10 [=====] - 25s 2s/step - loss: 1.9467
Epoch 137/250
10/10 [=====] - 25s 3s/step - loss: 1.8156
Epoch 138/250
10/10 [=====] - 25s 3s/step - loss: 1.6974
Epoch 139/250
10/10 [=====] - 25s 3s/step - loss: 1.8231
Epoch 140/250
10/10 [=====] - 26s 3s/step - loss: 1.7849
Epoch 141/250
10/10 [=====] - 25s 2s/step - loss: 1.7710
Epoch 142/250
10/10 [=====] - 25s 2s/step - loss: 1.7825
Epoch 143/250
10/10 [=====] - 25s 2s/step - loss: 1.8647
Epoch 144/250
10/10 [=====] - 24s 2s/step - loss: 1.7667
Epoch 145/250
10/10 [=====] - 25s 2s/step - loss: 1.7343
Epoch 146/250
10/10 [=====] - 25s 2s/step - loss: 1.7966
Epoch 147/250
10/10 [=====] - 25s 2s/step - loss: 1.7024
Epoch 148/250
10/10 [=====] - 25s 2s/step - loss: 1.7356
Epoch 149/250
10/10 [=====] - 24s 2s/step - loss: 1.8056
Epoch 150/250
10/10 [=====] - 25s 3s/step - loss: 1.7745
Epoch 151/250
10/10 [=====] - 25s 2s/step - loss: 1.8061
Epoch 152/250
10/10 [=====] - 26s 3s/step - loss: 1.7929
Epoch 153/250
10/10 [=====] - 24s 2s/step - loss: 1.7854
Epoch 154/250
10/10 [=====] - 24s 2s/step - loss: 1.7102
Epoch 155/250
```


10/10 [=====] - 25s 2s/step - loss: 1.7832
Epoch 156/250
10/10 [=====] - 25s 2s/step - loss: 1.8763
Epoch 157/250
10/10 [=====] - 24s 2s/step - loss: 1.8682
Epoch 158/250
10/10 [=====] - 25s 2s/step - loss: 1.7464
Epoch 159/250
10/10 [=====] - 25s 3s/step - loss: 1.7621
Epoch 160/250
10/10 [=====] - 25s 2s/step - loss: 1.7273
Epoch 161/250
10/10 [=====] - 25s 2s/step - loss: 1.7806
Epoch 162/250
10/10 [=====] - 24s 2s/step - loss: 1.7706
Epoch 163/250
10/10 [=====] - 25s 2s/step - loss: 1.7354
Epoch 164/250
10/10 [=====] - 25s 2s/step - loss: 1.7393
Epoch 165/250
10/10 [=====] - 25s 2s/step - loss: 1.6844
Epoch 166/250
10/10 [=====] - 25s 2s/step - loss: 1.7080
Epoch 167/250
10/10 [=====] - 24s 2s/step - loss: 1.6888
Epoch 168/250
10/10 [=====] - 24s 2s/step - loss: 1.7401
Epoch 169/250
10/10 [=====] - 24s 2s/step - loss: 1.7235
Epoch 170/250
10/10 [=====] - 24s 2s/step - loss: 1.6864
Epoch 171/250
10/10 [=====] - 25s 3s/step - loss: 1.7501
Epoch 172/250
10/10 [=====] - 24s 2s/step - loss: 1.7789
Epoch 173/250
10/10 [=====] - 25s 3s/step - loss: 1.7923
Epoch 174/250
10/10 [=====] - 25s 2s/step - loss: 1.7658
Epoch 175/250
10/10 [=====] - 24s 2s/step - loss: 1.6947
Epoch 176/250
10/10 [=====] - 24s 2s/step - loss: 1.7142
Epoch 177/250
10/10 [=====] - 26s 3s/step - loss: 1.6986
Epoch 178/250
10/10 [=====] - 24s 2s/step - loss: 1.6827
Epoch 179/250
10/10 [=====] - 25s 2s/step - loss: 1.6623
Epoch 180/250
10/10 [=====] - 24s 2s/step - loss: 1.8668
Epoch 181/250
10/10 [=====] - 25s 2s/step - loss: 1.6773
Epoch 182/250

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10/10 [=====] - 24s 2s/step - loss: 1.6687
Epoch 183/250
10/10 [=====] - 24s 2s/step - loss: 1.7125
Epoch 184/250
10/10 [=====] - 25s 2s/step - loss: 1.5641
Epoch 185/250
10/10 [=====] - 24s 2s/step - loss: 2.0903
Epoch 186/250
10/10 [=====] - 24s 2s/step - loss: 1.7937
Epoch 187/250
10/10 [=====] - 24s 2s/step - loss: 1.7613
Epoch 188/250
10/10 [=====] - 24s 2s/step - loss: 1.7018
Epoch 189/250
10/10 [=====] - 24s 2s/step - loss: 1.7111
Epoch 190/250
10/10 [=====] - 25s 3s/step - loss: 1.7009
Epoch 191/250
10/10 [=====] - 23s 2s/step - loss: 1.6667
Epoch 192/250
10/10 [=====] - 24s 2s/step - loss: 1.6412
Epoch 193/250
10/10 [=====] - 24s 2s/step - loss: 1.7023
Epoch 194/250
10/10 [=====] - 24s 2s/step - loss: 1.6794
Epoch 195/250
10/10 [=====] - 23s 2s/step - loss: 1.6548
Epoch 196/250
10/10 [=====] - 25s 2s/step - loss: 1.6721
Epoch 197/250
10/10 [=====] - 23s 2s/step - loss: 1.6021
Epoch 198/250
10/10 [=====] - 23s 2s/step - loss: 1.7317
Epoch 199/250
10/10 [=====] - 24s 2s/step - loss: 1.6916
Epoch 200/250
10/10 [=====] - 23s 2s/step - loss: 1.7018
Epoch 201/250
10/10 [=====] - 24s 2s/step - loss: 1.6940
Epoch 202/250
10/10 [=====] - 23s 2s/step - loss: 1.6264
Epoch 203/250
10/10 [=====] - 25s 2s/step - loss: 1.6260
Epoch 204/250
10/10 [=====] - 23s 2s/step - loss: 1.7313
Epoch 205/250
10/10 [=====] - 23s 2s/step - loss: 1.7449
Epoch 206/250
10/10 [=====] - 24s 2s/step - loss: 1.7596
Epoch 207/250
10/10 [=====] - 24s 2s/step - loss: 1.6390
Epoch 208/250
10/10 [=====] - 24s 2s/step - loss: 1.6202
Epoch 209/250
```

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10/10 [=====] - 24s 2s/step - loss: 1.6891
Epoch 210/250
10/10 [=====] - 23s 2s/step - loss: 1.6822
Epoch 211/250
10/10 [=====] - 24s 2s/step - loss: 1.6593
Epoch 212/250
10/10 [=====] - 24s 2s/step - loss: 1.6262
Epoch 213/250
10/10 [=====] - 24s 2s/step - loss: 1.6115
Epoch 214/250
10/10 [=====] - 24s 2s/step - loss: 1.6716
Epoch 215/250
10/10 [=====] - 24s 2s/step - loss: 1.6803
Epoch 216/250
10/10 [=====] - 25s 3s/step - loss: 1.7115
Epoch 217/250
10/10 [=====] - 24s 2s/step - loss: 1.6725
Epoch 218/250
10/10 [=====] - 24s 2s/step - loss: 1.6447
Epoch 219/250
10/10 [=====] - 24s 2s/step - loss: 1.6639
Epoch 220/250
10/10 [=====] - 24s 2s/step - loss: 1.5804
Epoch 221/250
10/10 [=====] - 24s 2s/step - loss: 1.6043
Epoch 222/250
10/10 [=====] - 24s 2s/step - loss: 1.6696
Epoch 223/250
10/10 [=====] - 24s 2s/step - loss: 1.6687
Epoch 224/250
10/10 [=====] - 24s 2s/step - loss: 1.6656
Epoch 225/250
10/10 [=====] - 24s 2s/step - loss: 1.6072
Epoch 226/250
10/10 [=====] - 24s 2s/step - loss: 1.6831
Epoch 227/250
10/10 [=====] - 24s 2s/step - loss: 1.7429
Epoch 228/250
10/10 [=====] - 24s 2s/step - loss: 1.6234
Epoch 229/250
10/10 [=====] - 26s 3s/step - loss: 1.6749
Epoch 230/250
10/10 [=====] - 23s 2s/step - loss: 1.6203
Epoch 231/250
10/10 [=====] - 24s 2s/step - loss: 1.5600
Epoch 232/250
10/10 [=====] - 24s 2s/step - loss: 1.6480
Epoch 233/250
10/10 [=====] - 24s 2s/step - loss: 1.6110
Epoch 234/250
10/10 [=====] - 24s 2s/step - loss: 1.5754
Epoch 235/250
10/10 [=====] - 24s 2s/step - loss: 1.7280
Epoch 236/250
```

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10/10 [=====] - 24s 2s/step - loss: 1.6191
Epoch 237/250
10/10 [=====] - 24s 2s/step - loss: 1.6305
Epoch 238/250
10/10 [=====] - 24s 2s/step - loss: 1.7148
Epoch 239/250
10/10 [=====] - 24s 2s/step - loss: 1.7152
Epoch 240/250
10/10 [=====] - 24s 2s/step - loss: 1.6357
Epoch 241/250
10/10 [=====] - 25s 3s/step - loss: 1.6515
Epoch 242/250
10/10 [=====] - 24s 2s/step - loss: 1.5416
Epoch 243/250
10/10 [=====] - 24s 2s/step - loss: 1.5423
Epoch 244/250
10/10 [=====] - 24s 2s/step - loss: 1.4769
Epoch 245/250
10/10 [=====] - 24s 2s/step - loss: 1.5254
Epoch 246/250
10/10 [=====] - 23s 2s/step - loss: 1.7085
Epoch 247/250
10/10 [=====] - 24s 2s/step - loss: 1.6881
Epoch 248/250
10/10 [=====] - 24s 2s/step - loss: 1.6341
Epoch 249/250
10/10 [=====] - 24s 2s/step - loss: 1.6585
Epoch 250/250
10/10 [=====] - 24s 2s/step - loss: 1.6038
```