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References

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References

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References

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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

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Epoch 7/200

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Epoch 8/200

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

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

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Epoch 12/200

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Epoch 13/200

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Epoch 14/200

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Epoch 15/200

10/10 [==============================] - 25s 3s/step - loss: 2.6011

Epoch 16/200

10/10 [==============================] - 25s 3s/step - loss: 2.6421

Epoch 17/200

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Epoch 18/200

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Epoch 19/200

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Epoch 20/200

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Epoch 21/200

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Epoch 22/200

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***Sample***

First article

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Title:

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Joseph Greenberg

Text:

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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 macrofamiles) 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.)

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(Second edition 1966.)

Articles, reviews, etc.

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Temperature: 0.2

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Eventer of the Armenian politician and a construction o

Temperature: 0.4

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Temperature: 0.6

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Temperature: 0.8

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Eventby, a partially and thing. In 1978, it was a song may a bass one that they very of the punnake show in 2005.

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References

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Temperature: 0.2

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Eventers of the United States to Armenian American Indian College, and South African County Annia British Cup Cup of the Canadal and the Anational Decent of Committee Armenian town and the state contributed in 1980 and the defense of the first to be one of the modern station of the southern the area of the spinnaker controlled a street of the surface and resident in the company of the state and constitution of the start of the first single of the complete of the first police of the first constitution was a common and manager of the resident of the Captain states and resort of the first consisting t

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Eventecy of Lordston 17

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References

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References

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Temperature: 1.2

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***Num generate = 50***

Temperature: 0.2

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Temperature: 0.4

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Up to date film, who was ewle situe on 1, 2010.

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Temperature: 0.4

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Up to dates from the district member and armed a start of Spanish and the state days considered and Star and Australian consults and structure and a continue to the cath of the National Leon Warden and moving t

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Temperature: 0.6

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Up to dates and former according in first purchased that was used on the end of the musical partion of the newspaper of the construction lead committees of the North American and American politicians in the Bomering and all the country in the games of the first to the counties of the strate quanting and in World South Bang to the sail of information all-other line.

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Temperature: 0.8

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Category:Geople of Jerry Fessan in 1958'.

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Temperature: 0.8

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Rome Edm, 2003 to 25, 2002, the film employed an experience for the same recognicist and the statelection of more house in articles understead and the state in the war spinnel that was

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***250 Epochs***

Epoch 1/250

10/10 [==============================] - 24s 2s/step - loss: 5.2800

Epoch 2/250

10/10 [==============================] - 26s 3s/step - loss: 3.3938

Epoch 3/250

10/10 [==============================] - 24s 2s/step - loss: 3.3358

Epoch 4/250

10/10 [==============================] - 25s 3s/step - loss: 3.2214

Epoch 5/250

10/10 [==============================] - 24s 2s/step - loss: 3.2827

Epoch 6/250

10/10 [==============================] - 25s 3s/step - loss: 3.0903

Epoch 7/250

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Epoch 8/250

10/10 [==============================] - 24s 2s/step - loss: 2.9526

Epoch 9/250

10/10 [==============================] - 25s 2s/step - loss: 2.9304

Epoch 10/250

10/10 [==============================] - 25s 2s/step - loss: 2.8290

Epoch 11/250

10/10 [==============================] - 25s 3s/step - loss: 2.7478

Epoch 12/250

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Epoch 13/250

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Epoch 14/250

10/10 [==============================] - 26s 3s/step - loss: 2.6533

Epoch 15/250

10/10 [==============================] - 24s 2s/step - loss: 2.6050

Epoch 16/250

10/10 [==============================] - 24s 2s/step - loss: 2.6408

Epoch 17/250

10/10 [==============================] - 25s 3s/step - loss: 2.6154

Epoch 18/250

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Epoch 19/250

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Epoch 20/250

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Epoch 21/250

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Epoch 22/250

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Epoch 23/250

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Epoch 24/250

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Epoch 25/250

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Epoch 27/250

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Epoch 28/250

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Epoch 29/250

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Epoch 30/250

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Epoch 31/250

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Epoch 32/250

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Epoch 33/250

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Epoch 34/250

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Epoch 35/250

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Epoch 36/250

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Epoch 37/250

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Epoch 38/250

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Epoch 39/250

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Epoch 40/250

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Epoch 41/250

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Epoch 42/250

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Epoch 43/250

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Epoch 44/250

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Epoch 45/250

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Epoch 46/250

10/10 [==============================] - 25s 3s/step - loss: 2.2903

Epoch 47/250

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Epoch 49/250

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Epoch 50/250

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Epoch 51/250

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Epoch 52/250

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Epoch 53/250

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Epoch 54/250

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Epoch 57/250

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Epoch 58/250

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Epoch 59/250

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Epoch 60/250

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Epoch 61/250

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Epoch 62/250

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Epoch 63/250

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Epoch 64/250

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Epoch 65/250

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Epoch 66/250

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Epoch 67/250

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Epoch 68/250

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Epoch 69/250

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Epoch 70/250

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Epoch 71/250

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Epoch 72/250

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Epoch 73/250

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Epoch 74/250

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Epoch 75/250

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Epoch 76/250

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Epoch 77/250

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Epoch 78/250

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Epoch 79/250

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Epoch 80/250

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Epoch 81/250

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Epoch 82/250

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Epoch 83/250

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Epoch 84/250

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Epoch 85/250

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Epoch 86/250

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Epoch 87/250

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Epoch 88/250

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Epoch 89/250

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Epoch 90/250

10/10 [==============================] - 25s 2s/step - loss: 2.2035

Epoch 91/250

10/10 [==============================] - 24s 2s/step - loss: 2.0076

Epoch 92/250

10/10 [==============================] - 24s 2s/step - loss: 2.1143

Epoch 93/250

10/10 [==============================] - 24s 2s/step - loss: 1.9294

Epoch 94/250

10/10 [==============================] - 24s 2s/step - loss: 1.9831

Epoch 95/250

10/10 [==============================] - 25s 3s/step - loss: 1.9942

Epoch 96/250

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

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

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

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

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

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