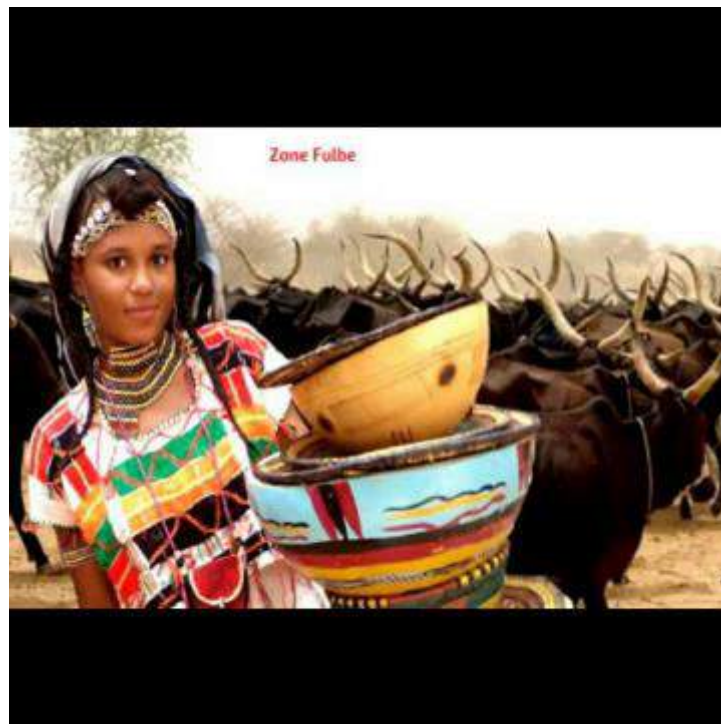


Why PULAAR-FULFULDE?

The PULAAR-FULFULDE is spoken from Ethiopia to Senegal and from the Sahara to Equatorial Africa. The Language is called *Fulfulde* in the eastern part of Mali, in Niger, Chad, Soudan, Ethiopia, as well in Ghana, Benin, Nigeria, Cameroon, CAR (Central African Republic), Eastern part of DRC (Democratic Republic of Congo, ex-Zaire), and Tanzania. With its geographic expansion, a wealth of conceptualization approaches have been borne as a result of sharp perception and description abilities, thus conferring onto the PULAAR-FULFULDE an extensive and elaborated vocabulary, as well various Ansatzes for metaphor-building. These favorable conditions make it readily possible to expressively, succinctly and appealingly conceive and render new scientific terms and expressions into the PULAAR-FULFULDE language. This led us to hopefully and committedly embark on the task of working on a scientific dictionary first relating to Mathematics, Physics and Chemistry. We thereby decided to pedagogically tread new paths by purposefully introducing new physical units, as illustrated for instance in *item1_Marmbilde.pdf*, to make plain and impart a scientific concept through a case-scenario approach.

Consequently the “PULAAR-FULFULDE by SMS” Program has been initiated as a first step to disseminate scientific concepts-building and reasoning basics following this viewpoint in the hopes to spark the flam of passion under the auspices of reason and our innovative spirit to enrich and uplift our beloved Language and Culture to the highest levels.



*** Mi yetti sanne; yoo PULAAGU wuur, foola. Sehil mon, PULLO PEREEJO ***

Note: some Letters of the PULAAR-FULFULDE Alphabet aren't still available on most keyboards and accordingly i've circumvented this restriction by prefixing with ~ the closest English Letter to them: i.e. ~B=B, ~d=d, ~D=D, ~b= b, ~n=ñ, ...

1E-/Salaam WANNDIRAA~BE, SIGIRAA~BE, welcome to our first lesson in PULAAR-FULFULDE by SMS: we'll introduce every week few PULAAR-FULFULDE scientific concepts alongside a short commentary in English to you. Remember, put simply le language is the ability to express relationships between things and is therefore the first step to show your Self, offer service, as well spiritually nurture your Self throughout life. Let us begin with the word 'week'; it is called DUMMUNDE in PULAAR-FULFULDE, (or YONTERE) it has the meaning of cycle, period when referring to stars, constellations and celestial bodies at large. It further has the connotation of permanence, persistence as in GOLLE DUUM~DE; from there, DUUMEL, mathematical fix point. WOORTORDE means end, destination, extremum, highest price; also means the bank note having the highest value

* Mi yetti sanne. Yoo PULAAGU wuur, foola. Sehil mon, PULLO PEREEJO *

2E-/Salaam WANNDIRAA~BE SIGIRAA~BE, welcome to our 2nd lesson in PULAAR-FULFULDE. Let us revisit WOORTORDE: KONT AM NA WOORTI UJUNERE MBUU~DU: my account has a balance of minus 5000 F CFA. The PULAAR counts the CFA Currency using a 5units base, the MBUU~DU. UJUNERE means 1000. The minus prefixed to 5000 comes from WOORTORDE extremum (here at zero). Therefore WOORTO~N (sing. WOORTEL), negative numbers. In electrostatics means negative charges. FAARNEL a device's display, from FAARO, show off, exhibition gives FAARNOOJI billboards; and FAARNAGEL diagram, figure, plot, diapositive, slide. FAARNAT NGEL, projector. KU~BAM liquid combustible, from HU~B~BUDE to ignite, to light up. The suffix -AM means liquid-like as in NDIYAM, water. DASSATE solid combustible, gives DASTEL thermometer, DASWERE mechanical power, also from DASDE, to tract

* Mi yetti sanne. Yoo PULAAGU wuur, foola. Sehil mon, PULLO PEREEJO *

3E-/Salaam WANNDIRAA~BE SIGIRAA~BE welcome to our 3rd PULAAR-FULFULDE lesson. We introduce LEFOL, logical sequence, well thought-off arrangement; applied to keyboard, LEFOL DIBBIRGEL, from DIBBEL button, keystroke. Also applied to scientific law as in LEFOL Planck. HARFAL means a constant in scientific law such as HARFAL Planck; HAATOMEERE means rather mathematical function than diagram better rendered as FAARNAGEL (see lesson 2E). RAYTUDE to radiate; (not to be confused with ROOYTUDE, being consumed by fire), gives RAYTEL photon. KARFALLO person having mastership over the laws of writing, therefore KU~DOL KARFALLO, pen having authority, abbreviated KARF, (indelible) pen by opposition to KEL, pencil from KU~DOL EELTATNGOL the initiating pen. CiiFOL KARFALLO, the reserved annotations' margin for a corrector or proof examiner

* Mi yetti sanne. Yoo PULAAGU wuur, foola. Sehil mon, PULLO PEREEJO *

4E-/Salaam WANNDIRAA~BE SIGIRAA~BE welcome to our 4th PULAAR-FULFULDE lesson. We introduce the suffixes qualifiers for the three fundamental states of matter:

- first the solid state is called HARTANNDE, from HAYRE, stone, also applied to planet as in HAYRE MBAA~N, planet Mars; *by the way an instructive information on the PULAAR-FULFULDE planet names is available on *Peeral.com* as reported by *Hammadi Jah* according to scholarly narrations from *Gantaga Jallo*.*
- The liquid state is called SiW, or SiWAM has given SiiWDE, meaning to pour a liquid. Note the reason the verb SiiWDE is more prevalent than SiW, or SiWAM stems from the simple fact, people refer to the specific name of the liquid rather than the more generic concept of fluid in their interaction.
- The gaseous state is called RUUL, derived from RUULDE, meaning cloud; the metaphor is apt, for a cloud is essentially a gaseous mass.

Application

Remember *lesson2E.pdf*, where a liquid combustible is called KU~BAM, from HU~B~BUDE to ignite, to light up and the suffix –AM referring to SiiWAM. We now introduce an example where the PULAAR-FULFULDE grammatical flexibility shall enable us to conveniently refer to various states of a same object:

We consider DORWUDE (in FULFULDE) DORDE (in PULAAR), meaning adding a small quantity of curdled milk, or few drops of a leaves–based concoction (see *lesson12E.pdf*) to fresh milk to speed up and intensify the souring: from there DORWAM, a liquid catalyst. Note also to further optimize the said process; the DORWERE is beforehand homogenized through WURWUGOL, (see *pictures 5E-a and 5E-b.pdf*). DORWU-NDi, a powder-like catalyst. The suffix –NDi comes from CONNDi, meaning powder-like, a shorthand formulation from DORWERE CONNDi, here an example of the PULAAR-FULFULDE extensive use of *substantived* adjective (i.e transforming an adjective into a noun). We reasonably can generalize the concept DORWUDE (in FULFULDE) or DORDE (in PULAAR) to contriving any catalytic reaction and DORWERE, DORWAM, DORWU-NDi would then mean cream-like, liquid, powder-like catalyst respectively. Again the grammatical flexibility shall enable us to construct RUULNDE, shorthand formulation for DORWERE RUULNDE, should the context be unequivocal about the use of the shorthand when referring to a catalyst in a gaseous state. Similarly HARTU-NDE (from DORWERE HARTUNDE) means a stone-like catalyst but HARTiNAANDE would rather mean an *improved* catalyst, because HARTiN-DE basically means to sharpen the skills, to improve, to embolden.

5E-/- Salaam WANNDIRAA~BE SIGIRAA~BE welcome to our 5th PULAAR-FULFULDE lesson. We introduce NASLUGOL, meaning temporarily halting the fetching of water from a well, to allow for the regenerating of the underlying phreatic nappe: from there NASLANNDE applied to the concept of latency pertaining to any process. Note also the concept can fit well in the juridical context, when referring to the moratorium and installments modalities brought forward by the compensating party in a settling proposal.

In view of the aim of NASLUGOL, I propose to extend the application of the term to a given set of devised measures for enhanced oil recovery in petroleum engineering.

GAALDE means to sew a piece of leather containing e.g. a folded piece of paper on which is written a prayer for protection; from there GALLIS, a machine for sealing and GALLISAAJI rivets (sing. GALLISEL), and GALLISDE a) to rivet, b) to seal a polymer by thermal processes.

TEELDE refers to rubbing *rigid* surfaces; from there TEELTEELAL, a knife-sharpener. When at least one involved surface is *non-rigid*, the term FOFDE is used instead. The reason behind this distinction may stem from the fact, that FULBE as pastoralist folk valued the Art of producing fire, even in humid environment: one of the ways involves WURWUGOL GUNU-MBAL WUTAANDU GAWRI a WUDDU LEDDAL (LEGGAL in FULFULDE) BAAWAAMI: (*)

- A-/- WURWUDE means gently rolling a stick between the palms due to the periodic sliding of the hands ‘palms past each other. The stick here in question is the GUNU-MBAL as explained in (B-/-),
- B-/- GUNU-MBAL is the millet ear shaft, henceforth referred to as *tubule*, resulting from softly chaffing the spikelets or ~NAANDE, which because of their being fluffy and highly flammable, are strewed in close proximity of the
- C-/- WUDDU or small orifice on a BAAWAAMI (*calotropis prophera*) twig, in which the *tubule* or GUNU-MBAL is planted. By smoothly rolling the *tubule* between the palms in a

periodic sliding pattern as similar in picture 5E-b, smoke is generated around the orifice, keeping the friction going on and strewing fluffy spikelets, or ~NAANDE sparks fire.



Picture 5E-a: an improvised BURGAL for homogenizing and emulsifying coagulated yet stratified milk.

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Picture 5E-b: WURWUGOL, or process of homogenizing and emulsifying milk by gently rolling the BURGAL, (Picture 5E-a) between the hands 'palms in a periodic sliding pattern.

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The expression (*) is often more succinctly and academically referred to as FOFDE BAAWAAMI, i.e. rubbing *calotropis prophera*, firstly to imply the in friction involved bodies are *non-rigid* ; from there the use of FOFDE *en lieu et place* of TEELDE (describing friction of *rigid* surfaces), and secondly the verb WURWUDE in (A-/-) is rather used for homogenizing and emulsifying milk as explained and pictured in 5E-b, therefore substituted through the use of FOFDE instead.

Mi yeti sanne; yoo PULAAGU wuur, foola. Sehil mon, Pullo PEREEJO