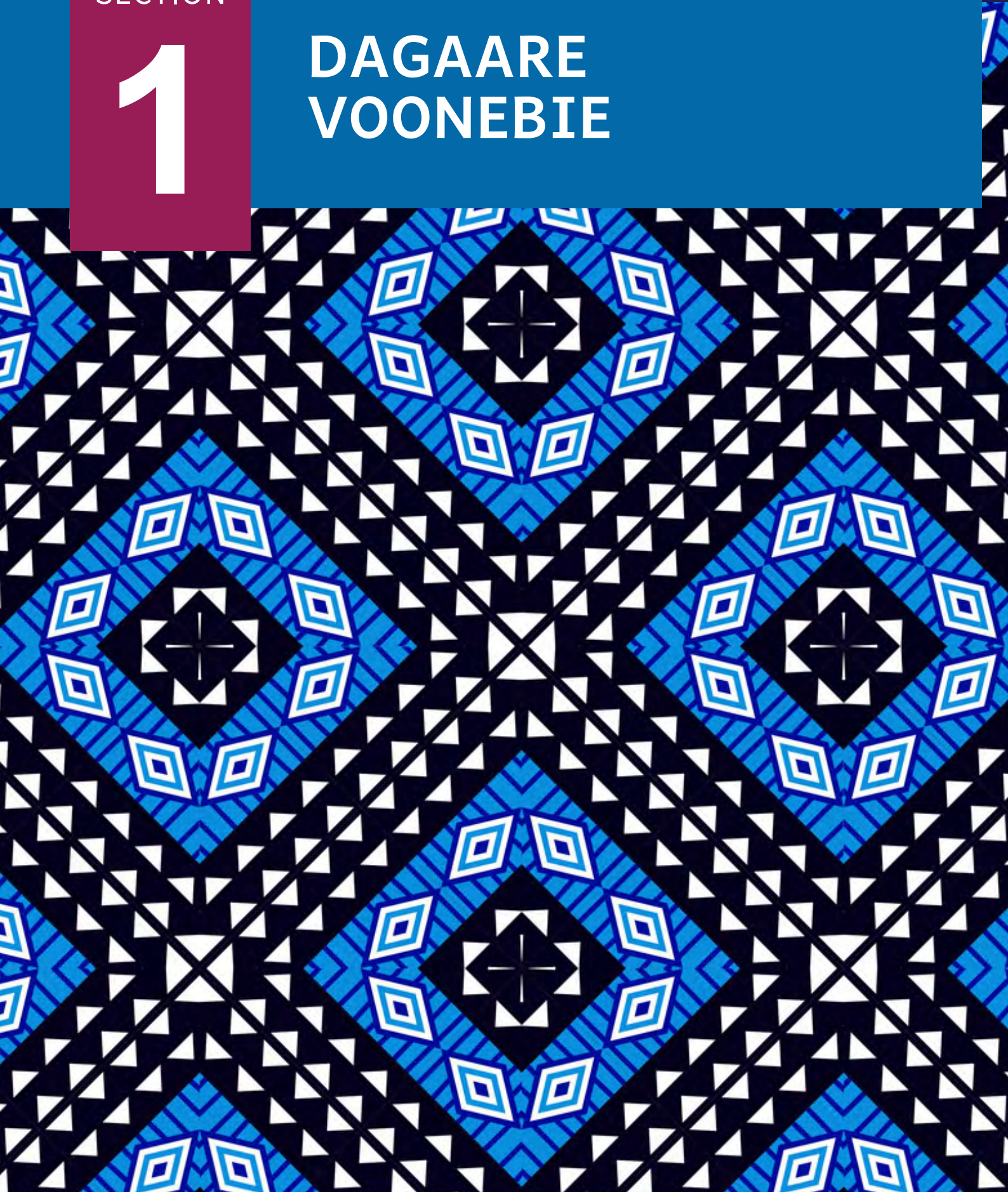


SECTION

1

# DAGAARE VOONEBIE



# NOŌRE DEME DIIBU

## Dagaare fonologyi (dagaare voonebie)

### KYEUUBU

Zanezanneba, ye waabo yaane wa ne a weleme ŋa naŋ kyaare a kəkore zannoo danŋyinparekparaa. Te na kyeyuo la a segebinyaane ane a segebidaare a kəkore poɔ. Te na zanne la a segebie ama yeli zaa. Aseŋ ziiri na a naŋ maŋ are yelbiri poɔ. Te na la zanne la lenɛɛ te naŋ na de a segebie ama poŋ eŋ a zagre na a kəkore poɔ, a kaa le a naŋ na soŋ ka te tōɔ sege kye kanne a kəkore ka o taa pare. A zannoo ŋa ba deɛ are ko a Dagaare zannoo yoŋ, kye a na soŋ la ka te taa gɔɔloŋ kaŋa a zannoo bɔgre mine teseŋ Bɔrefɔ ane a kəkɔɛ mine naŋ poɔ. A weleme ŋa na soŋ te la ka te baŋ voonebie tontonne ane a toma a kəkore zannoo poɔ. A zu kpulluu zaa la, ka a zannoo ŋa poɔ te na tōɔ baŋ la, a bigri, a maale a nɔpoɔ foɔlaa pelee a Dagaare kəkore poɔ.

#### A zannoo ŋa baaraa zaa, ye na tōɔ:

1. Bigri a Dagaare segebinyaane ane a boɔloo ziiri. (aseŋ; nɔgbama duobu bee sigibu ane a zelle lomboi)
2. Bigri a Dagaare segebidaare ane a boɔloo ziiri. (aseŋ; voonoo, iruŋ, ane naane boɔloo zie)
3. Bigri a kəkore segebinyaane boɔloo ziiri yelbiri poɔ. (Aseŋ; piilaa, sɔga ane baaraa)
4. Bigri a kəkore segebidaare boɔloo ziiri yelbiri poɔ. (Aseŋ; piilaa, sɔga ane baaraa)

## Yelbulo

Boɔloo la kone kaŋa naŋ tu noore yi a e yeɛ a kɔkɔre poɔ. Voonebie la kombie na te naŋ maŋ de maale ne yelbie a bebiri zaa demo diibu poɔ. A voonebie boɔloo poɔ, tegebo mine be be la a maŋ pɔgra kyɛ yuoro pennoo yeɛ yelbu saŋa. A voonebie ama taa la areziiri yelbiri poɔ. Voonoo e la pennoo yiibu naŋ maŋ veŋ ka te tɔɔ boole yelbiri. A yelzu kaŋa la pennoo tegebo.

## VOONEBIE PARƐƐ

Dagaare voonebie poŋ eŋ la ziiri ayi. Ka ana la voonebidaare ane voonebinyaane. A voonebie parƐƐ ama la maŋ lantaa maale yelbiri. Te na baŋ yeli ka yelbiri zaa yi la a voonebie ama boŋyeni boŋyeni poɔ. Aseŋ a yelbiri, die poɔ, voonebie ata la lantaa. Ka ana la /b/, /i/, ane /e/. A voonebiri /i/ ane /e/ la a voonebinyaane ka a voonebiri /d/ meŋ e voonebidaa. A welemɛ poɔ, te na di la demɛ kyaare a voonebie ama zaa a kaa lenɛɛ a naŋ tona

## Sɛgebinyaane

Sɛgebinyaane e la voonebie naŋ be yeli poɔ. A voonebie ama boɔloo saŋa, pennoo ba pɔgera. A pennoo ba pɔgera, kyɛ ka anaŋ na pɔge, a maŋ pɔge la fɛɛ le a noore poɔ. A naŋ ba pɔgera bee pɔgera fɛɛ zuiŋ, voonebinyaane boɔloo yire la gbolgbol. Voonebinyaane e la nimizeɛ yelbie maaloo poɔ. Yelbiri kyɛbe a bat aa voonebinyaane bee a ba taa voonoo kaŋa naŋ waa aŋa voonebinyaana. Te na di la demɛ kyaare a voonebinyaane toŋ nimizeere ama a yelbiri maaloo poɔ a karenderi ayi gane poɔ. A yelzu na poɔ te naŋ na di a demɛ la kɔkɔtege.

## Sɛgebinyaane bigruu

N zanezaneba, sɛgebinyaane bigruu poɔ, bommanoo mine be be la ka te maŋ de mane ne. Ana la ka te maŋ boole ka bommanoo. A bommanoo ama pare la a voonebinyaane waaloo zaa o naŋ taa. A mommanoo ama la, nɔgbama duobu bee sigibu, nɔgbama arezie ane a zelle lompoi na naŋ tona toma a voonebiri boɔloo saŋa. A yi a ata ama puoriŋ, anaare soba be be la. Ona la zelnyaga tããnoo/lɔnnoo. Gaanaa kɔkɔɛ zaa naane taa a anaare soba ŋa. Dagaare taa o la. Te piili di demɛ kyaare a bommanoo ama.

## Nɔgbana arezie

A bommanoo ɲa wulo la zie na a nɔgbama naɲ are a voonebinyaana boɔloo saɲa. Ziiri ayi la be be; nɔgbama fuuluu bee yeroo. Ka a voonebiriɲ boɔle, a nɔgbama maɲ fuuli la bee a nɔgbama yerɛɛ la. A ɲa zuiɲ, voonebinyaane poɲ eɲ la ziiri ayi, fuuluu voonebinyaane ane yeroo voonebinyaane. A fuuluu voonebinyaane mine la; /u, ɔ, o/. A yeroo voonebinyaane mine la /i, ɛ, e, a/

### Toma

A kyɛ, wuli Dagaare fuuluu segebinyaane ane yeroo segebinyaane.

## Zelle duɔbu

A ɲa wulo la lenɛɛ a zelnyaga naɲ maɲ are a noɔre poɔ voonebinyaane boɔloo saɲa. Te de la ka ka fɔɔ boɔla voonebinyaana, a noɔre naɲ yuoɛ la saɲa na a yɔɔ naɲ sigi. A ɲa na baɲ e la **duobo**, **sɔga** bee **sigi**. Ka fɔɔ sigri a yɔɔ ka o sigi, a voonebinyaana naɲ na yi e la sigibu voonebinyaana aseɲ; /a/. Ka teneɲ yuo a noɔre zaa, kyɛ ba sigi teseɲ a voonebinyaane sigibo, a voonebinyaana na e la sɔɔ voonebinyaana. Aseɲ; /e,o/. Kyɛ ka fɔɔ na boɔle segebinyaa duuraa, a noɔre maɲ yuo la kyɛlee; o ba maɲ yuo o zaa aɲa a sɔga voonebinyaana. Aseɲ; /i, u/.

### Toma

Piili boɔla a Dagaare voonebinyaane. Veɲ ka fo teeroɲ are ko ana naɲ duoro, sigire bee sɔga.

## Zelle lomboi

A manoo ɲa wulo la zelle zie na a voonoo naɲ tu yi. Te de la ka ka fɔɔ boɔla voonebinyaana, a zelle zie kaɲa maɲ dɔɔɲ la. Te ba maɲ tɔɔ woɲ a dɔɔno eɲ. Zelle lomboi ata la be be a tona a toma ɲa. A ziiri ama la a zelle nyooɔre, zelle sɔga ane a zelle kpaare. Azuiɲ, te taa la zellenyooɔre voonebinyaane, zellesɔga segebinyaane ane a zellekpaare segebinyaane. Ka fɔɔ boɔla zellenyooɔre voonebinyaana, a zelle niɲeɲ la ka a boɔla maɲ dɔɔ. Aseɲ; /i, e,e/. Zellesɔga boɔloo, a zelle sɔga la maɲ dɔɔɲ. Aseɲ; /a/.

A zellekpaare voonebinyaana meɲ dɔɔɲ la a zelle puoriɲ. Aseɲ; /u,o,o/

**Toma**

Manne lenɛɛ fo naŋ na boole voonebinyaaane Dagaare poɔ. vɛŋ ka fo teeroŋ kyaare a zelle lomboi.

Te naŋ zanne a monnoo ata ama te naŋ maŋ de wuli ne nvoonebinyaaane, te pãã na kaa la a mannoo anaare soba. A anaare soba ŋa ba be a Ghana kɔkɔɛ zaa poɔ. Ona la ka te maŋ boole ka Zellenyaga voonebinyaaane.

A mannoo ŋa be la kɔkɔɛ fẽẽ poɔ, teseŋ, Dagbani, Akan amk. Te maŋ de la a mannoo ŋa baŋ zie a zellenyage naŋ are voonebinyaaane boɔloo poɔ. Te maŋ kaa la ka a zelle tãã la a zellenyageŋ bee o loŋ la be a voonebiri boɔloo saŋa. A voonebiri boɔloo poɔ, ka a zelle tãã a tage gaa puori, te maŋ yeli ka zeltaanaa (+ATR). Ka voonebiriŋ boole ka a zellenyaga ba tãã, ka a zellenyaga ba tage, te boola o la zellelɔnaa(-ATR)

(+ATR) mine la /I, o, e, u, a/ (-ATR) mine la /o e/

**Toma**

Boole a voonebinyaaane zaa kyɛ kaa ana naŋ e zelletaane ane zellelɔnaa. wele a zedlletaana (+ATR) ne a zellelɔnne (-ATR taa) [act b]

**Toma**

De a mannoo na zaa te naŋ zanne ka a soŋ fo ka fo baare a tabol ŋa naŋ tu.

Voonebinyaaane	Nɔgbama arezie	Zelle duobu	Zelle lomboi
/i/	yeroo	duobu	Niŋe
/e/			
/u/			
/e/			
/o/			
/o/			
/a/			

Te naŋ di demɛ kyaare voonebinyaaane mannoo baare, te na lee kaa la voonebidaare meŋ.

## Voonebidaare

Aṅa te naṅ da yeli a a weleme nan pare poɔ na, voonebidaare e la a kɔkɔre voonebie mine a yi voonebinyaane puoriṅ.

A voonebidaare ama la voonebie na ka fōō boɔla a, a pennoo naṅ yiri maṅ pɔge la. Azuiṅ a pennoo naṅ yire kye a yiibu maṅ e la too.

Azuiṅ tye na baṅ yeli ka voonebidaare e la tulimo ne a voonebinyaane; ka pennoo yire a voonebinyaane poɔ kye pɔgra a voonebidaare poɔ. Te maṅ de la voonebidaare ane voonebinyaane lantaa a maale yelbiri.

## Sɛgebidaare bigruu

Ka foo boora ka fo bigiri segebidaare, bommanne mine be be la ka fo na tu kye bigiri. A bommanne na ata fo naṅ na de manne ne segebidaare bigiruu la: naane boɔloo zie, boɔloo irug, ane vooonoo. Te na di la deme kyaare a bommanne ama kye de amine toṅ ne toma.

## Naane boɔloo zie

Da la a nɔpɔɔfoolaa boma naṅ maṅ to taa a segebidaare boɔloo saga. Aga fo naṅ nye a voonebie boɔloo sini poɔ na, a Ghana kɔkɔre voonebie boɔloo tuyiziiri la, **nogbama, naṅbane ne nyeme, tamanyini, Talambaalon, zelle ne nyeme** amk. A ama mine la a Ghana kɔkɔre vooonoo tuyiziiri.

- **Nogbama:** A nogbama voonebie boɔloo poɔ, a nogbama ayi zaa maṅ mare la taa. Aseṅ; /p/, /b/, /m/
- **Tamanyene:** tamanyene voonebie boɔloo poɔ, te maṅ de la a zelenyoore te to ne a tamanyini. A tamanyene voonebie mine la, /t/, /d/, /s/, /n/.
- **Nogbama ne nyeme:** A ama boɔloo, a sazu nyeme maṅ seene la a pulig nogbane. Aseṅ /f/
- **Zelle ne nyeme:** A vooonoo boɔloo saga a zelesoga maṅ ta la a nyeme. Aseṅ, /j/
- **Talambaalon:** A talambaalon voonebie vooonoo saga, te maṅ tage la a zelekpaare gaa ne a talaṅ zu. Aseṅ, /k/, /g/

### Toma

Bɔ Dagaare yelbie ka a piili a boɔloo ziiri na naṅ zanne.

## Boɔloo Iruq

A gaa wulo la lenee pennoo naŋ maŋ poŋe segebidaare boɔloo saga. A segebidaare boɔloo saga a pennoo poŋebo maŋ do gaŋ la taa. Aseŋ, a segebidaare mine voonoo, a pennoo maŋ poŋe la o zaa kye yuo bare tontobaa. A maŋ tu la a pennoo do gaŋ taa ga kye ka te bigiri a segebidaare mine a Ghana kɔkɔre poɔ. A nɔpoɔ maŋ tage la kye gmenne a voonoo boɔloo saŋa. A voonoo irug ama mine la, **tegebo**, **fooroo**, **nya-erme**, amk, a ama mine la a Ghana kɔkɔre segebidaare boɔloo irug.

- **Tegebo:** Aŋa o yuori, a voonoo boɔloo poɔ a pennoo maŋ tege la. A pennoo maŋ tege la o zaa are , bee a te ge fee, a pennoo paa na daa yi la tontobaa. Aseŋ, /p/, /b/, /t/ /d/, /k/, /g/, /m/, /n/. A yi a zie na a pennoo naŋ na tu yi na, te na baŋ poŋ la a tegebo voonoo eg zagere ayi poɔ. Ana la, **noare tegebo** ane **nyoare tegebo**. Ka a pennoo tu nooreg yi, te boole a la **purdaayi** tegebo. Aseŋ, /p/, /b/, /t/, /d/, /k/, /g/. Ka a pennoo meŋ la tu nyoore yi, onaŋ la nya-ereme tegebo. Aseŋ; /m/, /n/.
- **Fooroo:** A fooroo voonebie boɔloo poɔ, pennoo ba poŋera fee zaa, kye vuo na a pennoo naŋ maŋ tu yi e la fee le ka a pennoo maŋ yire fee fee le. Azuig, a nɔpoɔ maŋ duuro la. Aseŋ; /f/, /s/.
- **Foore-kyelee:** Voonebie boɔloo poɔ, dabie ayi la be be. A dendege, pennoo maŋ poŋe la o zaa. A dabie ayi soba poɔ, a pennoo maŋ daa yire la fee fee (a ba maŋ daa yi tontobaa le). Aseŋ /t/
- **Zelle ne tamanyene:** voonebie boɔloo poɔ, a zelenyoore na seene la a tamanyene zu a veg ka a pennoo tu a noore lomboi yi. Aseŋ, /l/
- **Miinnuu:** A zelle la maŋ boole a miinnuu voonebie a zelle la a boɔloo nimizie soba kye ka amine paa sonna. A tamanyene la a zie kaŋa naŋ maŋ soŋe a miinnuu voonebie boɔloo. A miinnuu voonebiri kaŋa la /r/

## Voonoo

N nonneba zanezaneba, a mannoo ata soba te na maŋ de bigire ne segebidaare la voonoo. Ka teneg boola voonebidaare, a nɔpoɔ naŋ gaŋ sigi a kɔkɔpoɔ maŋ wele la ziiri ayi. Amine poɔ, o maŋ dɔɔnɔ la, amine poɔ meŋ o ba dɔɔnɔ. ka foo boola segebidaare ka a kɔkɔpoɔ dɔɔnɔ, **voonoo segebidaa** la. Ka foo boola ka a kɔkɔpoɔ ba dɔɔnɔ meŋ, **ba-voonoo segebidaare** la. Voonoo segebidaare mine la: /g/, /d/, /m/, /b/. A ba-voonoo segebidaare mine la: /f/, /s/, /k/, /t/ amk.

## Toma

1. a. Kaa a sini ŋa vela kye wuli ziiri a segebidaare boɔloo naŋ tuuri yiri:

<https://www.youtube.com/watch?v=df0RdKuPF9I>.



- b. Ka fōō wa kaa a sini baare, meŋ mōō kye boole a segebidaare fomeŋa a nye. De fo nubiri dōgele fo kōkōluo zu k. De fo nubiri dōgele fo kōkōluo zu kye boole a segebidaa, fo na baŋ la ana naŋ voona ane ana nan ba voona.
- c. Ye de a mannoo ata na a di ne deme a karendie poō kyaare a Dagaare segebidaare.

## Voonebie areziiri

A yeluu ga wullo la ziiri voonebie naŋ maŋ are yelbiri boɔloo poō. Kokoe mine taa la bege mine naŋ pigi segebie mine sori a arooziirig. A ziiri ata na a voonebie naŋ poŋ ege la, **Yelbiri piiluu, yelbiri soga ane yelbiri baaraa**. Ka te piili di deme kyaare a voonebie areziiri ama.

## segebinyaane areziirii

segebinyagene areziiri wulo la ziiri segebinyagene naŋ na baŋ are Ghana kōkōre yelbiri poō. Ka a segebinyaaga are yelbiri piilu, te maŋ yeli ka **piilaa**. Ka segebinyaaga are yelbiri sonsogeg, te maŋ yeli ka soga. Ka o wa are la a yelbiri baaraaŋ, te maŋ yeli ka **baaraa**. A bigruu ama zaa wuli la weliweli ka le na te naŋ taa te kōkōre segebinyagene tegee la. Baŋ ka a kōkōre poō a segebinyagene mine na too are la a yelbiri ziiri ata ama zaa poō. Kaa a voonebiri /a/ a yelbie ama naŋ tu poō.

1. ata
2. Sane
3. boma

A bondemannewuli deg poō, /a/ piili ne la yelbiri. Aзуиг te na baŋ yeli ka /a/ na baŋ piili ne la yelbiri. A bondemannewuli ayi poō, /a/ are la a yelbiri sogaŋ. Aзуиг te na baŋ yeli ka a

/a/ na baŋ are la yelbiri soga. A bondemannewuli ata soba poō /a/ la baare a yelbiri. Aзуиг /a/ na baŋ are la yelbiri baaraaŋ.



**Toma 1**

- a. Sege a Dagaare segebinyaane zaa eŋ a tabol ŋa naŋ tu poɔ.
- b. Bɔ Dagaare yelbiri naŋ piili a segebinyaane kaŋa zaa
- c. Wuli fo teeroŋ kyaare segebinyaanaa na naŋ koŋ tɔɔ are yelbiri piiluŋ.
- d. Ye zeŋ bayiri a wuli ye teeroŋ bee yelnyerre ka a karendie zaa di demɛ a poɔ.

NB: a segebie na ye naŋ na sege, a e voonebie a kɔkɔre poɔ kye ta e a kɔkɔre segebie.

**Toma 2**

- a. Pore Dagaare segebinyaane zaa eŋ a tabol ŋa naŋ tu poɔ.
- b. Pore yelbie a segebinyaane ama naŋ are a sɔgaŋ.
- c. E ka fo ne a karendie zaa di demɛ kyaare a fo yelnyerre. veŋ ka a fo teeroŋ gaa segebinyaane na naŋ koŋ tɔɔ kpe a yelbie sɔgaŋ.
- d. Ye bayiri na e ka ye ne a karendie zaa di demɛ kyaare a ye yelnyerre.

segebinyaane	Yelbie sɔgaŋ
a	

## Toma 3

- a. Pore Dagaare segebinyaane zaa eŋ a tabol ŋa naŋ tu poɔ.
- b. Pore yelbie a segebinyaane ama naŋ are a baaraan.
- c. E ka fo ne a karendie zaa di demɛ kyaare a fo yelnyerre. veŋ ka a fo teeroŋ gaa segebinyaane na naŋ koŋ tɔɔ are a yelbie baaraan.
- d. Ye bayiri na e ka ye ne a karendie zaa di demɛ kyaare a ye yelnyerre.

segebinyaane	Yelbie sɔgaŋ
u	

## Sεgebidaare areziiri

Segebidaare areziiri wulo la ziiri segebidaare naη na baη are Ghana kōkōre yelbiri poō. Ka a segebidaa are yelbiri piilu, te maη yeli ka piilaa. Ka segebidaa are yelbiri sonsogeg, te maη yeli ka sōga. Ka o wa are la a yelbiri baaraaη, te maη yeli ka baaraa. A bigruu ama zaa wuli la weliweli ka le na te naη taa te kōkōre segebidaare tεgεε la. Baη ka a kōkōre poō a segebidaare mine na tōō are la a yelbiri ziiri ata ama zaa poō.

### Toma 1

- a. Bō Dagaare yelbiri naη piili a segebidaare kaηa zaa
- b. Bō Dagaare yelbiri naη piili a segebidaare kaηa zaa
- c. Wuli fo teeroη kyaare segebidaare na naη koη tōō are yelbiri piiluη.
- d. Ye zeη bayiri a wuli ye teeroη bee yelnyerre ka a karendie zaa di demε a poō.

(maale tabol ko a Dagaare segebidaare zaa)

**NB:** a segebidaare na ye naη na sege, ka a e voonebie a kōkōre poō kye ta e a kōkōre segebie.

Sεgebinyaaane	Yelbiri baaraaη
p	
b	
t	
d	
k	
g	
f	
m	
n	
w	
s	

## Toma 2

- a. Yε zeŋ bayiri a pore Dagaare segebidaare zaa eŋ a tabol ŋa naŋ tu poɔ.
- b. Pore yelbie a segebidaare ama naŋ are a sɔgaŋ.
- c. E ka fo ne a karendie zaa di demε kyaare a fo yelnyerre. veŋ ka a fo teeroŋ gaa segebidaare na naŋ koŋ tɔɔ kpε a yelbie sɔgaŋ.
- d. Yε bayiri na e ka ye ne a karendie zaa di demε kyaare a ye yelnyerre.

sεgebinyaane	Yelbiri baaraŋ
p	
b	
t	
d	
k	
g	
f	
m	
n	
w	
s	

## Toma 3

- a. Ye gbulo poɔ ye pore Dagaare segebidaare zaa eŋ a tabol ŋa naŋ tu poɔ.
- b. Pore yelbie a segebidaare ama naŋ are a baaraŋ.
- c. E ka fo ne a karendie zaa di deme kyaare a fo yelnyerre.
- d. A gbulo zaa e ka ye ne a karendie zaa di deme kyaare a ye yelnyerre.

segebinyaane	Yelbiri baaraŋ
p	
b	
t	
d	
k	
g	
f	
m	
n	
w	
s	

# LEEPEEROO SOOREBIE

1. segebidaare ne segebinyaane zaa e la voonebie. De fo meŋa kəkore bigiri segebidaare ane segebinyaane tɛtɛɛ.
2. De a mannoo ata na ka a soŋ fo ka fo bigiri a Dagaare segebinyaane ama; /o/, /i/, /e/, ane /o/
3. Wola fo na de a mannoo, boɔloo iruŋ, naane boɔloo zie, ane vonoo bigiri ne a segebidaare ama? /f/, /g/, /m/, /t/
4. Maale tabol kye bɔbie eŋ ka a wulo ziiri na Dagaare segebinyaane naŋ maŋ are yelbiri poɔ.

Sɛgebinyaana	Yelbiri piiluŋ	Yelbiri sɔga	Yelbiri baaraŋ

5. Maale tabol kye bɔbie eŋ ka a wulo ziiri na Dagaare segebidaare naŋ maŋ are yelbiri poɔ.

Sɛgebinyaana	Yelbiri piiluŋ	Yelbiri sɔga	Yelbiri baaraŋ

# LEEPEEROO SOOREBIE NŌ-IRRI

## A ama maŋ tu la nŌ-irri ko a leepeeroo soorebie.

1. A segebinyaane boɔloo pɔɔ, pennoo ba pɔgera, kye ka segebidaare boɔloo pɔɔ, a pennoo maŋ pɔge la fěě. A la tu meŋ segebinyaane zaa voono la kye segebidaare zaa naane voono
2. A mannoo ata ama la ka te maŋ de bigre ne segebinyaane.

Segebinyaane	Zelle lomboi	Zelle duobu	Nɔgbama waaloŋ
i. /o/	puori	Sɔga	fuuluu
ii. /i/	niŋe	duoro	yere
iii. /e/	niŋe	Sɔga	yere
iv. /o/	puori	Sɔga	fuuluu

3. A mannoo ata ama la ka te maŋ de bigre ne segebidaare.: /f/, /g/, /m/, /t/.

Segebidaare	Naane boɔloo zie	Boɔloo iruŋ	Voonoo
i. /f/	Nɔgban/ nyeme	fooroo	bavoonoo
ii. /g/	talambaaloŋ	tebebo (purdaayi)	voonoo
iii. /m/	Nɔgbama	tegebo (nyɔ-ereme)	voonoo
iv. /t/	Tamanyene	tegebo (purdaayi)	bavoonoo

## EXTENDED READING

1. Dolphyne, F. A., (2006). The Akan (Twi-Fante) language: Its sound systems and tonal structure. Accra: Woeli Publishing Services.
2. Yule, G. (2010). The Study of Language (4th ed.). Cambridge: Cambridge University Press.
3. Organs of speech: <https://youtu.be/lg9RkazFZLk?t=378>.

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2. Dolphyne, F. A., (2006). The Akan (Twi-Fante) language: Its sound systems and tonal structure. Woeli Publishing Services.
3. Ladefoged, P. & Disner, S. F. (2012). Vowels and consonants (3rd ed.). Wiley-Blackwell.
4. Yule, G. (2010). The Study of Language (4th ed.). Cambridge University Press.



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