Introduction to the SFGPL

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Part I.

Overview and basic grammar of the SFGPL

1. About SFGPL

1.1. Introduction

SFGPL stands for "Simple Functional General Purpose Language" and is a language for formalising natural languages. The language was designed to make sentence structure and meaning easily interpretable and communicable. In particular, long and complex sentences containing conjunctions and relative pronouns are often difficult to interpret. The language was created by me as a hobby and has not been rigorously tested, so there may be flaws.

The project then makes the materials and programmes available on GitHub:https://github.com/Eruhitsuji/SFGPL.

1.2. Background and purpose of creating the SFGPL

In the grammars of many natural languages, there are many exceptions and many cases that annoy the learner. To solve this problem, artificial languages have been proposed for a universal language, but like many natural languages, they have ambiguous meanings and are open to multiple interpretations. In particular, long and complex sentences containing conjunctions and relative pronouns are often difficult to interpret. To solve these problems, the SFGPL is an artificial language created with the aim of making languages formally and logically understandable.

1.3. SFGPL Features

SFGPL is a functional language and the types of arguments taken by functions are strictly defined. In SFGPL, functions are assigned to each sentence structure, so that grammatical roles such as subject, predicate, object, and complement are easy to understand. In addition, complex sentences can be created by combining sentence structures.

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1.4. Basic grammar of the SFGPL

• Only function words and a few words exist in the SFGPL and have a strictly defined meaning. Other words are borrowed from other languages.

- Function words are followed by a number of arguments, the meaning of which is determined by the arguments.
- In principle, each argument corresponds to a word or an object, but if the source word is more than one word, it can be regarded as a single word by connecting it with an underscore.
- Borrowed words are distinguished by placing a single quotation mark before and after them.
- There are no grammatical distinctions between genders, numbers, etc., and there are no articles.
- A semicolon (;) is added at the end of a sentence. However, it can be omitted in the case of a single sentence.

1.4.1. Sentence structure of the SFGPL

The word order of the SFGPL is SVO, but a function word that determines the structure of the sentence is attached to the beginning of the sentence. Also, the sentence structure of the SFGPL is strictly defined by proper words. The following table shows the sentence structures that can be expressed in the SFGPL. The details of how to use them are described in Sentence Pattern.

		word	function	arguments	supplement
1	SV	ta	Noun.do	S,V	
2	SVC	ma	Noun.eq	S,V,C	C is the noun
2	SVC	me	Noun.haveP	S,V,C	C is the modifier
3	SVO	te	Noun.doT	S,V,O	
4	S V O1 O2	ti	Noun.give	S,V,O1,O2	
5	SVOC	tu	Noun.makeN	S,V,O,C	C is the noun
5	SVOC	to	Noun.makeM	S,V,O,C	C is the modifier
-	A has B	mi	Noun.have	A,V,B	
-	A belongs to B	mu	Noun.belong	A,V,B	
-	A is more B than C	mo	Noun.gt	A,V,B,C	

		word	function	arguments	supplement
-	According to C, AVB	moa	Noun.hearSay	A,V,B,C	A(Subject) V(Verb) that B(Content) according to C(Source)

1.5. Pronunciation of SFGPL

There are no pronunciation exceptions in the SFGPL's native words. The International Phonetic Alphabet (IPA) in the table below is an example of pronunciation.

Consonants of the SFGPL are listed in the table below.

Spell	IPA
р	/p/
b	/b/
f	/f/
m	/m/
t	/t/
d	/d/
S	/s/
n	/n/
l	/l/
k	/k/
g	/g/
j	/j/
w	/w/

On the other hand, the vowels in the SFGPL are as shown in the table below. SFGPL unique words do not have double vowels, except in a few words.

Spell	IPA
а	/a/
е	/e/
i	/i/
u	/u/
0	/o/
oa	/oa/

Borrowed words are read with the pronunciation specific to the borrowed words.

1.6. SFGPL Words

The SFGPL word is mainly divided into SFGPL-specific words and loan words.

The unique words are mainly function words necessary for sentence structure, and basic words for verbs and modifiers. The rest of the words are loan words.

And in the sentence structure of the SFGPL, the position of the part of speech is determined and words must be used according to their part of speech.

1.6.1. Parts of speech in the SFGPL

There are three parts of speech in the SFGPL: Noun, Verb and Modifier. Phrase, Pronoun, BoolList, LangEurc and NumberList exist as subclasses of Noun.

BoolList, LangList, and LangFunc are used to create logical statements in addition to general statements. Then, there is a Bool type that represents true/false.

NumberList is mainly used as a numeral. There is also a Number class as a base numeral. This Number class is not normally used by itself.

In addition, there are two special words that modify nouns and verbs: noun determiners (DeterminerN) and verb determiners (DeterminerV).

Each part of speech has its own function words, which change the part of speech and determine its meaning. Other words that implement the basic vocabulary are Word. The SFGPL's specific words are classified according to their parts of speech: verbs are "WordV", modifiers are "WordM".

Nouns are words that describe any concept, such as any object, substance, person or place. Verbs are words that describe any action, action, state, being, etc. Modifiers are words that modify other words. Modifiers are words that modify other words; the SFGPL makes no distinction between adjectives and adverbs.

In the Python library SFGPL, there are classes for each part of speech.

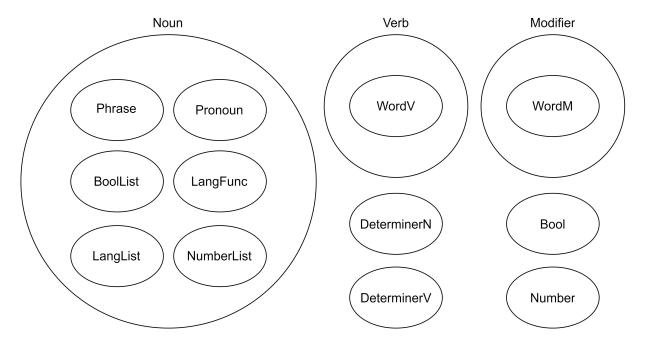


Figure 1: PartOfSpeach

1.6.2. Function words in the SFGPL

Function words determine the role, part of speech, etc. of a sentence. The function, role and meaning of function words are only applicable within arguments.

These function words are one-to-one with Python functions. They also have a fixed number of arguments, and the role of each argument is determined by its location.

For a list of function words and how to use them, see dict.csv.

1.6.3. Borrowed words in the SFGPL

Borrowed words are used for words that do not exist in the SFGPL. It is preferable to borrow words from languages commonly used in the world, such as English, but this should not be a problem as long

as the words can be understood by others. However, it is recommended that borrowed words are used in their original form, and if there is a conjugation, it should be done in SFGPL function words.

1.7. SFGPL and programming

SFGPL sentences can be rewritten into Python objects. This project contains a file in which the SFGPL is defined. To use the SFGPL in Python, use SFGPL.py can be used by importing it. Examples of use are samples in the Python files. Also, for detailed instructions on how to run the SFGPL library in Python, see How_to_Use_SFGPL_in_Python.ipynb.

2. Basic Grammar

This chapter explains the basic knowledge and grammar for learning the SFGPL. In particular, it describes the basic sentences in the affirmative form of the present tense.

It is also recommended to read aboutSFGPL as a prerequisite. Furthermore, as a whole this material is based on English, e.g. example sentences, so it is desirable to know a little English.

2.1. About the features of the SFGPL sentence structure

Like English, SFGPL is an SOV-type language in which the role of a word is determined by its position. One of the most important features of the SFGPL is its emphasis on sentence pattern. Each of these sentence patterns defines what arguments (words of what part of speech) and how many to take. The meaning of the sentence is therefore uniquely determined. The function word that determines this sentence type is attached to the beginning of the sentence (clause). The whole sentence (clause) is considered as a noun and can be nested (Compound Sentences).

2.2. Specific examples of SFGPL sentence patterns

2.2.1. Syntax with ta

First, we present an example using ta. This ta has two arguments, where the first argument is the subject of the sentence and the second argument is the verb of the sentence. In other words, ta can produce sentences equivalent to the English first sentence type SV.

For example, to express "I run." in SFGPL, use the following.

```
1 ta ga sa 'run'
```

In this case, ta is the word to be added when the sentence type is "SV".

The ga denotes the first person pronoun "I".

And sa 'run' denotes the verb "run". This sa 'run' consists of two words. In loan words such as these, a part-of-speech indicator (in this case, sa) is attached to the word. There are three words that represent such parts of speech.



2.2.2. Syntax with ma

Next, we present an example using ma. This ma has three arguments: the first is the subject of the sentence, the second is the verb of the sentence and the third is the complement of the subject. Also, the complement of the third argument must be a noun. In other words, ma can produce sentences equivalent to the English second sentence type SVC.

As an example, to express "I am a student." in the SFGPL, use the following.

```
1 ma ga so fa 'student'
```

In this case, ma is the word to be added when the sentence type is "SVC".

The ga denotes the first person pronoun "I".

Next, so is a word indicating that the verb is nonsense. In so, the meaning changes depending on the location. In the example sentence, the meaning is equivalent to that of the English verb "be".

And fa 'student' denotes the noun "student". In this case, the article that exists in English and other languages does not exist in the SFGPL, so there is no need to add any article.

2.2.3. Syntax with me

Next, we present an example using me. This me has three arguments: the first is the subject of the sentence, the second is the verb of the sentence and the third is the complement of the subject. Also, the complement of the third argument must be a modifier. In other words, me can produce sentences equivalent to the English second sentence type SVC.

As an example, to express "I am happy." in the SFGPL, do the following.

```
1 me ga so la 'happy'
```

In this case, me is the word to be added when the sentence type is "SVC".

The ga denotes the first person pronoun "I".

Next, so is a word indicating that the verb is nonsense. In so, the meaning changes depending on the location. In the example sentence, the meaning is equivalent to that of the English verb "be".

And la 'happy' denotes the modifier "happy".

2.2.4. Syntax with te

We then present an example using te. This te has three arguments, the first representing the subject of the sentence, the second the verb of the sentence and the third the object. In other words, te can produce sentences equivalent to SVO, the third sentence type in English.

For example, to express "I open the door." in SFGPL, use the following.

```
1 te ga sa 'open' fa 'door'
```

In this case, te is the word to be added when the sentence type is "SVO".

The ga denotes the first person pronoun "I".

Next, sa 'open' denotes the verb "open".

Next, fa 'door' denotes the noun "door".

2.2.5. Syntax with ti

Next, we present an example using ti. This ti has four arguments, the first representing the subject of the sentence, the second the verb of the sentence, the third the indirect object and the fourth the direct object. In other words, ti can produce sentences equivalent to SVOO, the fourth sentence type in English.

For example, to express "I give you a box." in SFGPL, you can do the following.

```
1 ti ga so ge fa 'box'
```

In this case, ti is a word that is added when the sentence type is "SVOO".

The ga denotes the first person pronoun "I".

Next, so is a word indicating that the verb is nonsense. In so, the meaning changes depending on the location. In the example sentence, the meaning is equivalent to the English word give.

And ge denotes the second person pronoun "you".

Furthermore, fa 'box' denotes the noun "box".

2.2.6. Syntax with tu

Next, we present an example using tu. This tu has four arguments: the first is the subject of the sentence, the second the verb of the sentence, the third the object and the fourth the complement of the object. The complement of the fourth argument must be a noun. In other words, tu can produce sentences equivalent to the English fourth sentence type SVOC.

For example, to express "I make you a teacher." in SFGPL, use the following.

```
1 tu ga so ge fa 'teacher'
```

In this case, tu is the word to be added when the sentence type is "SVOC".

The ga denotes the first person pronoun "I".

Next, so is a word indicating that the verb is nonsense. In 'so, the meaning changes depending on the location. In this case, in the example sentence, the meaning is equivalent to the English causative verb make.

And ge denotes the second person pronoun "you".

Furthermore, fa 'teacher' represents the noun "teacher".

2.2.7. Syntax with to

Next, we present an example using to. This to has four arguments: the first is the subject of the sentence, the second the verb of the sentence, the third the object and the fourth the complement of the object. The complement of the fourth argument must be a modifier. In other words, to can produce sentences equivalent to the English fourth sentence type SVOC.

As an example, to express "I make you happy." in the SFGPL, use the following.

```
1 to ga so ge la 'happy'
```

In this case, to is the word to be added when the sentence type is "SVOC".

The ga denotes the first person pronoun "I".

Next, so is a word indicating that the verb is nonsense. In 'so, the meaning changes depending on the location. In this case, in the example sentence, the meaning is equivalent to the English causative verb make.

And ge denotes the second person pronoun "you".

Furthermore, la 'happy' represents the modifier "happy".

2.2.8. Syntax with mi

Next, we present an example using mi. This mi has three arguments, the first representing the subject of the sentence (the owner), the second the verb of the sentence and the third the object (the possession). Therefore, mi can represent the sentence "S has O".

As an example, to express "I have a box." in SFGPL, use the following.

```
1 mi ga so fa 'box'
```

In this case, mi is the word used to make a sentence expressing possession.

The ga is the first person pronoun "I".

Next, so is a word that indicates that the verb is meaningless. In so, the meaning changes depending on the location. In the example sentence, the meaning is equivalent to the English word have.

Furthermore, fa 'box' denotes the noun "box".

2.2.9. Syntax with mu

Next, we present an example using mu. This mu has three arguments, the first representing the subject of the sentence (the person or thing to which it belongs), the second the verb of the sentence and the third the object (place of affiliation). Therefore, mu can represent the sentence "S belongs to O".

As an example, to express "I belong to a school." in SFGPL, use the following.

```
1 mu ga so fa 'school'
```

In this case, mu is a word that is added to make a statement of belonging.

The ga denotes the first person pronoun "I".

Next, so is a word that indicates that the verb is meaningless. In so, the meaning changes depending on the location. In the example sentence, the meaning is equivalent to "belong to" in English.

Furthermore, fa 'school' denotes the noun "school".

2.2.10. Other syntaxes

Other syntaxes are indicated by sentence pattern.

2.3. Modification methods

2.3.1. How to modify nouns

There are two main ways of modifying nouns: with modifiers and with nouns.

How to modify a noun with a modifier For example, to express that a certain box is big, in English we say "The box is big.". Similarly, the SFGPL uses me to express an SVC as follows:.

```
1 me fa 'box' so wan
```

In this case, wan means big.

How to modify a noun with a noun for a noun This method is used in situations where the English preposition "of" or the Japanese particle "O" is used. However, the SFGPL does not allow for concise notation, and even in such cases it is qualified by sentences like English relative pronouns (compound sentences).

For example, "My box is big." can be expressed by the following sentence.

```
1 me mi ga so san fa 'box' so wan
```

In this sentence, the sentence migasosan fa'box' is nested in the subject of the main sentence. This migasosan fa'box' means "I have a box. In addition, the use of san can be used to emphasise words that are particularly important in the sentence. Thus, in this sentence, san fa'box' is used to emphasise the word"box".

Overall, the literal translation means "[I have a **box**] is big.", which is equivalent to "My box is big.".

2.3.2. How to modify verbs

Simple verb modification methods Verbs can be modified using na. In na, the first argument is the verb and the second argument is the modifier.

For example, to express "I quickly run.".

```
1 ta ga na sa 'run' la 'quickly'
```

In this case, la 'quickly' means "quickly". In na sa 'run'la 'quickly', the verb "run" is modified by the modifier "quickly", meaning "quickly run".

How to convert a noun phrase into a modifier and modify a verb The SFGPL allows you to convert a noun phrase into a modifier, which then modifies a verb. This is similar to adverbialisation using prepositions in English.

First, the SFGPL has words that can be converted between parts of speech, which in this case uses lit to convert a noun to a modifier. In this usage, a noun determiner is used in parallel with lit to limit the meaning of the noun phrase.

For example, to express "I go to Tokyo." in SFGPL.

```
1 ta ga na sa 'go' li pun fa 'Tokyo'
```

Firstly, sa 'go' expresses the English word "go", and the destination is expressed by modifying the verb. In particular, the four words li pun fa 'Tokyo' represent "to Tokyo". The three words li are noun-to-modifier words, and pun is a nominal determiner of place. Combining these two words with fa 'Tokyo' (Tokyo) to express the meaning "to Tokyo".

2.3.3. How to modify modifiers

The modifier modification is expressed using 'ka. In this ka, the modifier of the second argument modifies the modifier of the first argument.

For example, to express "Your box is a little big." in the SFGPL, use the following.

```
1 me mi ge so san fa 'box' so ka wan la 'little'
```

In this case, la 'little' (= "a little") modifies wan (= "big"), so that ka wan la 'little' means "a little big".

2.4. Wordbook



English	SFGPL		
open	sa 'open'		
door	fa 'door'		
you	ge		
box	fa 'box'		
teacher	fa 'teacher'		
school	fa 'school'		
big	wan		
quickly	la 'quickly'		
go	sa 'go'		
Tokyo	fa 'Tokyo'		
a little	la 'little'		

Part II. Syntax of the SFGPL

3. Sentence Pattern

3.1. List of SFGPL sentence patterns

In the SFGPL, a function word that determines the sentence type is always attached to the beginning of a sentence in order to form a sentence. In the SFGPL, there are sentence types as shown in the table below, and the sentences themselves are composed by the combination of these sentence types. In addition, modification of words is also performed.

		word	function	arguments	supplement
1	SV	ta	Noun.do	S,V	
2	SVC	ma	Noun.eq	S,V,C	C is the noun

		word	function	arguments	supplement
2	SVC	me	Noun.haveP	S,V,C	C is the modifier
3	SVO	te	Noun.doT	S,V,O	
4	S V O1 O2	ti	Noun.give	S,V,O1,O2	
5	SVOC	tu	Noun.makeN	S,V,O,C	C is the noun
5	SVOC	to	Noun.makeM	S,V,O,C	C is the modifier
-	A has B	mi	Noun.have	A,V,B	
-	A belongs to B	mu	Noun.belong	A,V,B	
-	A is more B than C	mo	Noun.gt	A,V,B,C	
-	According to C, A V B	moa	Noun.hearSay	A,V,B,C	A(Subject) V(Verb) that B(Content) according to C(Source)

3.2. Noun.do (ta)

In Noun.do ta, in particular, S is the subject and V is the verb in the same form as the English first sentence form, and the subject is said to perform some action. It can express simple sentences. "I run." can be expressed in SFGPL as follows.

```
1 ta ga sa 'run'
```

3.3. Noun.eq (ma)

Noun.eq ma corresponds to the English second sentence pattern "S is C", in which the complement C is a noun. This construction also shows that S and C are equivalent. If V corresponds to a be verb in English, use so as the verb. To express "This is a table." in SFGPL, it is as follows.

```
1 ma gu so fa 'table'
```

[&]quot;You become a teacher." can be expressed in SFGPL as follows.

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```
1 ma ge sa 'become' fa 'teacher'
```

3.4. Noun.haveP (me)

Noun.haveP me corresponds to the English second sentence pattern "S is C", in which the complement C can be used as a modifier. In this construction, S is the property or state of C. If V corresponds to a be verb in English, use so as the verb. To express "The table is red." in SFGPL, it is as follows.

```
1 me fa 'table' so la 'red'
```

"You look sad." can be expressed in SFGPL as follows.

```
1 me ge sa 'look' la 'sad'
```

3.5. Noun.doT (te)

Noun.doT te, in particular, corresponds to the third sentence pattern in English, where S is the subject, V is the verb, and O is the object. "I study English." can be expressed in SFGPL as follows.

```
1 te ga sa 'study' fa 'English'
```

3.6. Noun.give (ti)

In Noun.give ti, in particular, it corresponds to the English fourth sentence pattern, where S is the subject, V is the verb, and O1 and O2 are the objects. In particular, this construction means "S gives O1 O2". If V corresponds to "give" in English, use so as the verb. "I give you a table." can be expressed in SFGPL as follows.

```
1 ti ga so ge fa 'table'
```

3.7. Noun.makeN (tu) and Noun.makeM (to)

Noun.makeN tu and Noun.makeM to, in particular, correspond to the English fifth sentence pattern, where S is the subject, V is the verb, O is the object and C is the complement. Noun.makeN is used when C is a noun and Noun.makeM when C is a modifier. In this construction, it means "S makes O C". If V corresponds to "make" in English, use so as the verb.

"I make you a teacher." can be expressed in SFGPL as follows.

```
1 tu ga so ge fa 'teacher'
```

"I make you sad." can be expressed in SFGPL as follows.

```
1 to ga so ge la 'sad'
```

3.8. Noun.have (mi)

Noun.have mi means "A owns B". If V corresponds to "have" in English, use so as the verb. "I have a table." can be expressed in SFGPL as follows.

```
1 mi ga so fa 'table'
```

3.9. Noun.belong (mu)

Noun.belong mu means "A belongs to B". If V corresponds to "belong to" in English, use so as the verb. "I belong to a school." can be expressed in SFGPL as follows.

```
1 mu ga so fa 'school'
```

3.10. Noun.gt (mo)

Noun.gt mo means "A is more B than C". In this case, A and B are the nouns being compared and C is a modifier. If V corresponds to a be verb in English, use so as the verb. "The bed is bigger than yours." can be expressed in the SFGPL as follows.

```
1 mo fa 'bed' so wan sen ge
```

3.11. Noun.hearSay (moa)

Noun.hearSay moa means "A(Subject) V(Verb) that B(Content) according to C(Source)". In this case, A is the person or thing receiving the information, V is the verb, B is the content of the information and C is the source person or thing. If V corresponds to a verbs related to hearsay, such as hear, say and see in English, use so as the verb. "According to the book, I saw that Japan is located in East Asia." can be expressed in the SFGPL as.

```
1 di moa ga so ta fa 'Japan' na ne sa 'locate' li fun pun me fa 'Asia' so
la 'east' fa 'book'
```

3.12. How to modify nouns using sentence structures

SFGPL uses these sentence structures to modify nouns. When a sentence is generated, the entire sentence becomes a noun, which can be embedded in another sentence.

"Your table is red." can be expressed in SFGPL as follows.

```
1 me mi ge so fa 'table' so la 'red'
```

Thus, mi ge so fa 'table', which is "You have table", becomes the subject, and it can be explained that the table is red la 'red'. The equivalent "You have red table." can be expressed as follows.

```
1 mi ge so me fa 'table' so la 'red'
```

3.12.1. Stressed Form

Emphasis san can also be used, especially when you want to emphasize a word other than the subject in a sentence. To stress the word "table" in "Your table is red.".

```
1 me mi ge so san fa 'table' so la 'red'
```

3.13. Wordbook

English	SFGPL	
1	ga	
run	sa 'run'	
this	gu	
table	fa 'table'	
red	la 'red'	
you	ge	
become	sa 'become'	
teacher	fa 'teacher'	
look	sa 'look'	
sad	la 'sad'	
study	sa 'study'	

SFGPL
fa 'English'
fa 'school'
fa 'bed'
wan
sen ge
fa 'book'
fa 'Japan'
li fun pun me fa 'Asia' so la 'east'

4. Negative sentences and Negative expressions

4.1. Negative statement

Use pa to create a negative sentence. This word is attached to a sentence to make a negative sentence. "I have a table." is migasofa 'table' under the SFGPL. To make it mean "I don't have a table.", it can be expressed as follows in the SFGPL.

```
1 pa mi ga so fa 'table'
```

4.2. Negative forms of modifiers

In a modifier, the suffix ke can be used to indicate a synonym of the modifier.

For example, the synonym "small" for wan, which means "big", can be expressed by adding ke wan.

"My table is small." can be expressed in SFGPL as follows.

```
1 me mi ga so san fa 'table' so ke wan
```

4.3. Wordbook



5. Interrogative Sentence

5.1. Yes-no question

Use da to create interrogative sentences. When this word is added to a sentence, it becomes a interrogative sentence. "You have a table." is miges of a 'table' under the SFGPL. To make it mean "Do you have a table?", it can be expressed as follows in the SFGPL.

```
1 da mi ge so fa 'table'
```

5.2. wh-questions

In the case of interrogative sentences containing interrogatives, the indefinite is expressed by replacing the indefinite with an interrogative. Interrogatives are represented by a combination of the interrogative pronoun wa and noun determiner.

"Who has a table?" is expressed as follows.

```
1 da mi ben wa so fa 'table'
```

"What do you have?" is expressed as follows.

```
1 da mi ge so pen wa
```

5.3. Wordbook



English	SFGPL
what	pen wa

6. Imperative Sentence

Use de to create imperative sentences. This word is added to a sentence to make it an imperative sentence. "You buy a table." is te ge sa 'buy'fa 'table' under the SFGPL. To make it mean "Buy a table, you!", it can be expressed as follows in the SFGPL.

```
1 de te ge sa 'buy' fa 'table'
```

6.1. Wordbook

English	h SFGPL	
you	ge	
buy	sa 'buy'	
table	fa 'table'	

7. Compound sentences

The SFGPL allows you to create sentences that combine several within a single sentence.

7.1. Parallel clauses

A conjunction is used to connect two or more sentences in parallel.

In the SFGPL, "I went to Tokyo and I was shopping there." can be expressed as follows.

```
1 ba di ta ga na sa 'go' li pun fa 'Tokyo' di ta ga na ni sa 'shop' li
pun gu
```

And while English-like tense agreement requires clause-by-clause utilisation in this way, the SFGPL allows the basic tense to be utilised throughout the sentence.

```
1 di ba ta ga na sa 'go' li pun fa 'Tokyo' ta ga na ni sa 'shop' li pun
gu
```

7.2. Dependent clauses

A subordinate modification of a noun in the main clause can be achieved by inserting a sentence describing the noun instead of the noun. In addition, the SFGPL generally uses subordinate clauses to modify nouns.

7.2.1. General subordinate clauses

In the SFGPL, "My bag is big." can be expressed as follows. In this case, "My bag" is expressed as "I have a bag". The noun is then marked with san because "bag" is the noun being modified.

```
1 me mi ga so san fa 'bag' so wan
```

The meaning of "I have a bag is big." is almost the same as "I have a bag is big. In this case, the bag in a bag is big is the subject of the subordinate clause, so san need not be added.

```
1 mi ga so me fa 'bag' so wan
```

Then, to express "I give you the desk I built.", do the following.

```
1 ti ga so ge di te ga sa 'build' san fa 'desk'
```

The tense of only the subordinate clause can be changed in this way.

7.2.2. Adverbial clauses

Adverbial clauses can be used to modify predicates and whole sentences. In the SFGPL, "I ate sushi, when I went to Tokyo." can be expressed as follows.

```
1 di te ga na sa 'eat' li ta ga na sa 'go' li pun fa 'Tokyo' fa 'sushi'
```

Or, to express "I went grocery shopping while my kids were sleeping." in the SFGPL.

```
1 di ta ga na sa 'go' ba li ma fi ni sa 'shop' so fa 'grocery' li ta mi
ga so san don fa 'kid' ni sa 'sleep'
```

Introduction to the SFGPL

7.3. Modification of nouns by nouns

When Y modifies X in a noun X and Y, it is expressed as "Y \mathcal{O} X" in Japanese and "Y X" or "X of Y" in English, but the SFGPL uses three main types of usage. In the SFGPL, as mentioned earlier, modifications are often made in subordinate clauses, and the case of nouns modifying nouns with nouns is no exception. Therefore, nouns can be modified in different ways: ma, mi and mu.

7.3.1. Noun.eq (ma)

First, ma is mainly used when the modifier and the moderated are equivalent. For example, to express "This pen is big." in SFGPL as follows.

```
1 me ma gu so san fa 'pen' so wan
```

In this case, "this" and "pen" are equivalent. Therefore, ma is used.

7.3.2. Noun.have (mi)

Next, mi is mainly used when something has something. To express "My pen is big." in the SFGPL, use the following.

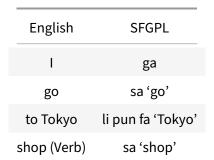
```
1 me mi ga so san fa 'pen' so wan
```

7.3.3. Noun.belong (mu)

Also, mu is mainly used when something belongs to something. To express "My school is big." in the SFGPL, use the following.

```
1 me mu ga so san fa 'school' so wan
```

7.4. Wordbook



English	SFGPL	
there	pun gu	
bag	fa 'bag'	
big	wan	
you	ge	
build	sa 'build'	
desk	fa 'desk'	
eat	sa 'eat'	
sushi	fa 'sushi'	
grocery	fa 'grocery'	
kid	fa 'kid'	
sleep	sa 'sleep'	
this	gu	
pen	fa 'pen'	
school	fa 'school'	

8. Verb Conjugation

The SFGPL has words that modify verbs, such as tense, aspect and auxiliary verbs. These words are mainly attached directly to the verb and modify it, while others modify the whole sentence.

8.1. Verb tenses

Verb tenses exist in the SFGPL as shown in the figure below.

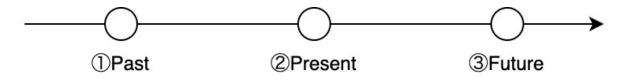


Figure 2: BasingPoint

Thus, there are three tenses in the SFGPL: ① past tense, ② present tense, and ③ future tense. These tenses are fundamental to verb conjugation and serve as reference points for sentence time. Example sentences using the tenses are shown in the following table.

Tense	English	SFGPL
① Past Tense	I lived in Tokyo.	di ta ga na sa 'live' li pun fa 'Tokyo'
② Present Tense	I live in Tokyo.	ta ga na sa 'live' li pun fa 'Tokyo'
③ Future Tense	I will live in Tokyo.	du ta ga na sa 'live' li pun fa 'Tokyo'

In particular, di and du are attached to the sentence itself.

The present tense in ②, with nothing attached, usually denotes the present. However, it is essentially an indefinite tense and is also used when no particular tense is required.

8.1.1. Extended verb tenses

The verbs described in the previous section are the most basic way of expressing verb tenses. However, in the SFGPL, there are words that are mainly used to combine tenses, depending on the DetermineV class. The extended tense by the DeterminerV class has a lower priority than the base tense by the Phrase class, and the base tense basically represents the tense of the entire sentence. The following table shows the words that represent the extended tense.

Tense	Word
① Past Tense	bak
② Present Tense	bik
③ Future Tense	bok

These tenses can be combined to form compound tenses such as future past tense and past future tense. The following is an example of the future past tense, which expresses the past at a future point in time.

```
1 du ta ga na bak sa 'live' li pun fa 'Tokyo'
```

In summary, the tenses in the SFGPL are as shown in the table below. The column names in the table below indicate the types of the base tense by Phrase, and the row names indicate the types of the extended tense by DeterminerV. In A/B, A denotes the base tense and B the extended tense.

	Past Tense	-	Future Tense
-	di/-	-/-	du/-
Past Tense	di/bak	-/bak	du/bak
Present Tense	di/bik	-/bik	du/bik
Future Tense	di/bok	-/bok	du/bok

8.2. Aspect on the time axis of operation

In SFGPL, there are six aspects as shown in the figure below: ① start aspect, ② transitional aspect, ③ completion aspect, ④ continuation aspect, ⑤ finish aspect, and ⑥ progression aspect.

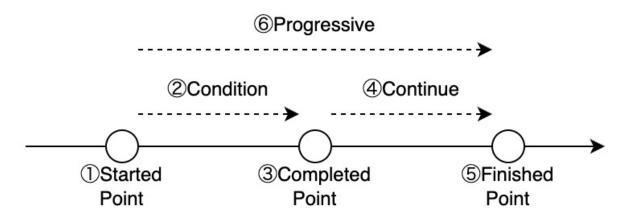


Figure 3: ProgressiveForm

The following table shows example sentences in each aspect for te ga sa 'wear'fa 'dress' meaning "I wear dress".

Aspect	Word	English	SFGPL
① Start Aspect	tak	I begin wear a dress.	te ga tak sa 'wear' fa 'dress'
② Transitional Aspect	tek	I am (in the process of) wearing a dress.	te ga tek sa 'wear' fa 'dress'

Aspect	Word	English	SFGPL
③ Completion Aspect	tik	I wear a dress. (I just finished wearing it.)	te ga tik sa 'wear' fa 'dress'
④ Continuation Aspect	tuk	I am wearing a dress. (The state in which it is worn.)	te ga tuk sa 'wear' fa 'dress'
⑤ Finish Aspect	tok	I finish wear a dress. (I stopped wearing it.)	te ga tok sa 'wear' fa 'dress'
Progression Aspect	ni	I am wearing a dress.	te ga ni sa 'wear' fa 'dress'

The ① start aspect, ③ completion aspect and ⑤ finish aspect represent only one point in time for a certain action.

The ② transitional aspect, ④ continuation aspect and ⑥ progression aspect represent a period of time for a certain action. ⑥ Progression aspect represents an indistinct period that includes ② transitional aspect and ④ continuation aspect. For some verbs, the interval between aspect with each may be momentary and almost indistinguishable.

These aspects can be in the past or future tense in addition to the present tense. "I begin wear a dress." in the past and future tenses is as follows.

```
1 di te ga tak sa 'wear' fa 'dress'
2 du te ga tak sa 'wear' fa 'dress'
```

As a rule, these aspects by themselves express an action focused on a certain point in time. In particular, in order to emphasise cases where the action has continued past the point in time, the perfect tense is used in addition to these aspects. The progressive form plus the perfect form to express "I have been wearing a dress.".

```
1 te ga nu ni sa 'wear' fa 'dress'
```

8.2.1. General progressive form

In SFGPL, we can make a simple progressive form as in ⑥ without considering the aspects ① to ⑤ in the previous section. The SFGPL can be expressed in the progressive form meaning "I am wearing the dress." as follows.

```
1 te ga ni sa 'wear' fa 'dress'
```

Progressive forms ni are attached to verbs. They can be past or future tense as well as present tense. "I am wearing the dress." in the past and future tenses is as follows.

```
1 di te ga ni sa 'wear' fa 'dress'
2 du te ga ni sa 'wear' fa 'dress'
```

8.3. Perfect tense

In the SFGPL, there is a perfect tense equivalent to English, as shown in the figure below.

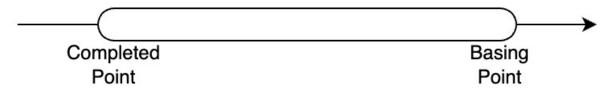


Figure 4: PerfectForm

This perfect tense is used to indicate that something that has happened in the past is continuing. Examples of the perfect tense for the three tenses are as follows.

Tense	English	SFGPL
① Past Perfect Tense	I had lived in Tokyo.	di ta ga nu na sa 'live' li pun fa 'Tokyo'
② Present Perfect Tense	I have lived in Tokyo.	ta ga nu na sa 'live' li pun fa 'Tokyo'
③ Future Perfect Tense	I will have lived in Tokyo.	du ta ga nu na sa 'live' li pun fa 'Tokyo'

In nu, the perfective form is attached to and modifies the verb itself.

8.4. Summary of time expressions in the SFGPL

The following table exists with regard to the time expressions of the SFGPL.

Base tense	Extended tense	Perfect tense	Progressive form
-	-	-	-
di	bak	nu	tak
du	bik		tek
	bok		tik
			tuk
			tok
			ni

このように、SFGPLでは 3×4×2×7=168 通りの時間表現が存在し、あらゆる場面に対して表現することが可能である.

8.5. Passive voice

SFGPL can express the passive voice with the meaning "The dress is worn.".

```
1 ta fa 'dress' ne sa 'wear'
```

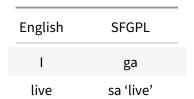
The ne, which indicates the passive form, is attached to the verb. These can be in the past or future tense as well as the present tense. "The dress is worn." in the past and future tenses is as follows.

```
1 di ta fa 'dress' ne sa 'wear'
2 du ta fa 'dress' ne sa 'wear'
```

8.6. Other verb modifiers

Functions in the DeterminerV class can modify other verbs. They are similar to English auxiliary verbs.

8.7. Wordbook



English	SFGPL	
in Tokyo	li pun fa 'Tokyo'	
wear	sa 'wear'	
dress	fa 'dress'	

9. Detailed Grammar

Basically, the SFGPL must adhere strictly to the grammar as described in sentence pattern, but the rest may be decided to some extent by the user. However, an exemplary grammar is described in this chapter.

9.1. How to qualify a sentence

To modify a whole sentence, you basically modify the verbs in that sentence by using na. For example, in the example sentence "I go to Tokyo.", the "to Tokyo" part is a modifier. In this case, the SFGPL uses the following.

```
1 ta ga na sa 'go' li pun fa 'Tokyo'
```

Another alternative is to use me.

```
1 me ta ga sa 'go' so li pun fa 'Tokyo'
```

9.1.1. Prepositional usage in English

In particular, when modifying verbs, like prepositions in English, they are expressed using li and DeterminerN. Examples of English prepositions and SFGPLs are given in the following table.

English	Meaning	SFGPL
at/in/on/to/from	Time	li pin
at/in/on/to/from	Place	li pun
for	Reason	li pon
for	Way/Means	li ban
from	Start	li fan

English	Meaning	SFGPL
to	End	li fen
between/among	Section	li fin
in	In	li fun
into	Into	li tun fun
out	Out	li fon
up/over	Move&Above	li tun man
above	Above	li man
down	Move&Below	li tun men
under	On&Below	li min men
below	Below	li men
on	On	li min
right	Right	li mun
left	Left	li mon
near	Near	li tin
by/about	By/About	li tan tin
with	With	li ten tin

9.2. Grammar of comparative expressions

In the SFGPL, comparative expressions using comparative classes in English are defined by mo, but not comparisons using superlative or equivalent classes. It is recommended that such sentences be expressed as follows.

9.2.1. Comparative degree

Comparative expressions such as "A is B(-er) than C" are expressed by mo. "My bag is bigger than yours." is expressed as follows.

```
1 mo mi ga so san fa 'big' so wan sen ge
```

9.2.2. Superlative

Comparative expressions such as "A is the B(-est) in/of C" are expressed with the following syntax.

```
1 me A V ka ki B li fun C
```

"My bag is the biggest in my class." is expressed as follows.

```
1 me mi ga so san fa 'bag' so ka ki wan li fun mu ga so san fa 'class'
```

"My bag is the second biggest in my class." using ordinal numbers is expressed as follows.

```
1 me mi ga so san fa 'bag' so ka ki ka wan li mal pil li fun mu ga so san
fa 'class'
```

9.2.3. Equivalent classes

Comparative expressions such as "A is as B as C" are expressed with the following syntax. In this case, use wen to mean "similar".

```
1 me ba A C V ka B wen
```

"My bag is as big as his." is expressed as follows.

```
1 me ba mi ga so san fa 'bag' sen lan gi so ka wan wen
```

9.3. Diachronic sentences

Constant matters and facts, such as customs, periodic matters and unchanging facts, are expressed by not adding a tense, as is the case with the present.

To express "I cook every day." in SFGPL, use the following.

```
1 ta ga na sa 'cook' li pin me fa 'day' so la 'every'
```

"The Earth revolves around the Sun." in the SFGPL can be expressed as follows.

```
1 ta fa 'Earth' na sa 'revolve' li tun tin fa 'Sun'
```

And to express "English is spoken all over the world." in the SFGPL as follows.

```
1 ta fa 'English' na ne sa 'speak' li fun dan fa 'world'
```

9.4. Wordbook

English	SFGPL
I	ga
go	sa 'go'
to Tokyo	li pun fa 'Tokyo'
bag	fa 'bag'
big	wan
yours(possessive)	sen ge
my class	mu ga so san fa 'class'
his(possessive)	sen lan gi
cook	sa 'cook'
every day	me fa 'day' so la 'every'
the Earth	fa 'Earth'
revolve	sa 'revolve'
the Sun	fa 'Sun'
English	fa 'English'
speak	sa 'speak'
all over the world	li fun dan fa 'world'

Part III. SFGPL Word

10. Word

The SFGPL words have a basic set of usages. For example, the way in which loan words are used is defined. This chapter describes the types of these words and how they are used. The details of the words are also available in dict.csv.

In general, SFGPL words are not transformed by articles, number, gender or case. If you want to indicate number or gender, use noun determiner.

10.1. Borrowed Words

The SFGPL uses loan words for all but the basic words. To use loan words for nouns, verbs, and modifiers, use the following table.

Root Word	Part of Speech	SFGPL
apple	Noun	fa 'apple'
open	Verb	sa 'open'
tall	Modifier	la 'tall'

Examples using these words are shown below.

English	SFGPL
I have an apple.	mi ga so fa 'apple'
I open a door.	te ga sa 'open' fa 'door'
I am tall.	me ga so la 'tall'

10.1.1. Borrowed words and the language from which they are borrowed

Borrowing words can be from any language. However, it is preferable to choose words that are understood by both speakers.

For example, the word 'language' from any language can be borrowed into the SFGPL as shown in the table below.

Language	Raw Word	SFGPL
English	language	faʻlanguage'
Japanese	言語	fa'言語'
Spanish	idioma	fa 'idioma'
French	langue	faʻlangue'
Russian	язык	fa'язык'
Portuguese	linguagem	fa 'linguagem'

Language	Raw Word	SFGPL
Esperanto	lingvo	faʻlingvoʻ

Thus, it can borrow from a variety of languages. In addition, the borrowed words in this material are basically borrowed from the English language.

10.2. About unique words

The SFGPL provides several unique words for verbs and modifiers. In the WordV and WordM classes, these are word groups that are unique to the SFGPL.

These word groups are highly versatile because their parts of speech have already been determined and they have a broad meaning, but it is difficult to specify the details of their meaning.

The following table gives examples of unique words.

English	SFGPL
create	kan
big	wan

Examples using these words are shown below.

English	SFGPL
I create a door.	te ga kan fa 'door'
The apple is big.	me fa 'apple' so wan

10.2.1. Unique word rules

There is uniqueness with respect to the SFGPL's unique words: words with different meanings have different pronunciations. The syllable structure is one word and one syllable (CV or CVC).

10.3. About the determiners

As a grammatical function, there are determiners, which are words that simply modify a word. There are two types of determiners: noun determiners, which limit nouns, and verb determiners, which limit verbs.

10.3.1. DeterminerN

The SFGPL has a noun determiner. This is a special word that originally modifies a noun. However, they can also be used as nouns in the same sense as the determiners themselves. To do so, use fo. Examples are given in the following table.



Examples using these words are shown below.

English	SFGPL
I am human.	ma ga so ben fo

10.3.2. DeterminerV

There is a verb determiner in the SFGPL. These are special words that modify verbs. These include words used as verb tenses and aspects, and words that add meaning to the verb in an auxiliary verb-like manner.

10.4. About meaningless words

There are words in the SFGPL that do not add meaning. These words exist for each part of speech and are used when grammatically necessary.

First, fo of meaningless noun is often used to express noun determiners as they are. Also, so of meaningless verb is used when a verb is not needed, especially in sentence pattern. On the other hand, lo of meaningless modifier is rarely used. Examples of these are given below.

English	SFGPL
I am human.	ma ga so ben fo
I have an apple.	mi ga so fa 'apple'



10.5. About pronouns

Pronouns exist in SFGPL. Pronouns are listed in the following table.

	English	SFGPL
First Person Pronoun	I	ga
Second Person Pronoun	you	ge
Third Person Pronoun	he/she/it	gi
Proximate Pronoun	this	gu
Distant Pronoun	that	go
Interrogative Pronoun	what	wa
Indefinite Pronoun	something	we

10.6. Words used numerically and logically

There are numerical words, words for boolean values, words for lists and words for functions in the SFGPL. These words are not often used in general sentences, but are used to indicate logic.

11. Modifier

11.1. About modifiers

There is no difference between adjectives and adverbs in the SFGPL; all words that modify are modifiers.

Modifiers provide words to express the opposite of the modification. It is thereby possible to make wan corresponding to the English word "big" into ke wan, which means "small".

11.2. Comparative expressions

The SFGPL has a mo of sentences that make comparisons between nouns of two terms. mo A F B C, meaning "A is more B than C.".

Comparative expressions such as "My table is bigger than yours." are expressed as follows.

```
1 mo mi ga so san fa 'table' so wan sen ge
```

11.3. Modifiers for each part of speech

To simply modify each part of speech with a modifier, the following table is used.



11.4. Applications of modifiers

Modifiers allow us to substitute English prepositions and noun phrases as modifiers. In this case, the li, which converts nouns to modifiers, and noun determiners are often combined to form expressions. For example, "I live in Tokyo.".

```
1 ta ga na sa 'live' li pun fa 'Tokyo'
```

The pun is a determiner of place.

11.5. Wordbook

English	SFGPL
I	ga
table	fa 'table'
yours	sen ge
live	sa 'live'
in Tokyo	li pun fa 'Tokyo'

12. Part of Speech Conversion

The SFGPL can convert nouns, verbs, and modifiers into each other's parts of speech. The following table lists the words converted to parts-of-speech by the SFGPL.

	Before	After	Word
V2N	Verb	Noun	fi
M2N	Modifier	Noun	fu
M2V	Modifier	Verb	si
N2V	Noun	Verb	su
N2M	Noun	Modifier	li
V2M	Verb	Modifier	lu

Verb to noun and noun to modifier are especially common.

12.1. Verb to Noun

Verb to noun is used as in "This is building.".

```
1 ma gu so fi sa 'build'
```

The verb of the original word can also be pre-conjugated according to verb conjugation.

12.2. Noun to Modifier

Noun to modifier is used to create the equivalent meaning of a phrase that combines an English preposition and a noun. In such cases, li and DeterminerN are used in combination. "I live in Tokyo." in SFGPL becomes the following. In this case, pun is a determiner of location.

```
1 ta ga na sa 'live' li pun fa 'Tokyo'
```

It can also be combined with the word son, which abstracts the noun, to mean "-like". "My daughter has a cat-like stuffed toy." can be expressed in SFGPL as follows.

```
1 mi mi ga so san fa 'daughter' so me me fa 'toy' so lu ne sa 'stuff' so
li son fa 'cat'
```

12.3. Verb to Modifier

Verb to modifier conversion allows for the use of the participle equivalent, which is common in the Indo-European language family. The verb of the original word can also be pre-conjugated according to verb conjugation.

"There is a sleeping boy." can be expressed in the SFGPL as follows.

```
1 ma pun go so me fa 'boy' so lu ni sa 'sleep'
```

The phrase "I lived in that destroyed building." can be expressed as follows.

```
1 di ta ga na sa 'live' li pun ma go so san me fi sa 'build' so lu ne sa
   'destroy'
```

12.4. Wordbook

English	SFGPL
this	gu
build	sa 'build'
I	ga
live	sa 'live'
in Tokyo	li pun fa 'Tokyo'
daughter	fa 'daughter'

English	SFGPL	
cat	fa 'cat'	
stuffed	lu ne sa 'stuff'	
toy	fa 'toy'	
there	pun go	
sleep	sa 'sleep'	
boy	fa 'boy'	
that	go	
destroy	sa 'destroy'	

13. Conjunction

In the SFGPL, conjunctions exist as connections between sentences and between words. The main conjunctions of the SFGPL are as follows.

Word	English Word	English	SFGPL
pe	because	I go to a store, because I want it.	pe ta ga na sa 'go' li pun fa 'store' te ga sa 'want' pen gi
pu	so	I want it, so I go to a store.	pu te ga sa 'want' pen gi ta ga na sa 'go' li pun fa 'store'
pi	if	I go to a store, if I want it.	pi ta ga na sa 'go' li pun fa 'store' te ga sa 'want' pen gi
ро	but	I want it, but I don't go to a store.	po te ga sa 'want' pen gi pa ta ga na sa 'go' li pun fa 'store'
ba	and	I go to a store, and I go to a library.	ba ta ga na sa 'go' li pun fa 'store' ta ga na sa 'go' li pun fa 'library'

Word	English Word	English	SFGPL
be	or	I go to a store, or I go to a library.	I go to a store, or I go to a library.

You can also connect words together, such as ba fa 'store'fa 'library' or be fa 'store'fa 'library'.

13.1. Wordbook

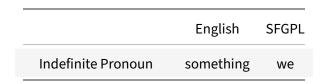
English	SFGPL
I go to a store	ta ga na sa 'go' li pun fa 'store'
I don't go to a store	pa ta ga na sa 'go' li pun fa 'store'
I want it	te ga sa 'want' pen gi
I go to a library	ta ga na sa 'go' li pun fa 'library'
store	fa 'store'
library	fa 'library'

14. Pronoun

14.1. List of pronouns

Pronouns are listed in the following table.

	English	SFGPL
First Person Pronoun	I	ga
Second Person Pronoun	you	ge
Third Person Pronoun	he/she/it	gi
Proximate Pronoun	this	gu
Distant Pronoun	that	go
Interrogative Pronoun	what	wa



14.2. Pronoun applications

As a rule, SFGPL pronouns do not distinguish between people, organisms, objects, concepts, places, times, reasons, methods, etc. There is no distinction based on gender or number. These distinctions can be made by using noun determiner.

14.2.1. Interrogative word

The following table shows the use of noun determiners for interrogatives.

English	SFGPL
what	pen wa
who	ben wa
when	pin wa
where	pun wa
why	pon wa
how	ban wa

14.2.2. Plural pronouns

To indicate plurals, use don. For example, don ga is used to denote "We".

14.2.3. Examples of conjugation of third person pronouns

Gender distinctions do not exist in the SFGPL. Nor is there a distinction between persons and things. For example, to make explicit the third person pronouns masculine, feminine and thing, one can do the following.

	English	SFGPL
male	he	lan gi
female	she	len gi
thing	it	pen gi

14.2.4. Possessive and Recursive pronouns

In addition, you can create possessive and reflexive pronouns using sen and sin. The following table shows the possessive and reflexive pronouns for first person pronouns.

	English	SFGPL
Possessive Pronoun	mine	sen ga
Reflexive Pronoun	myself	sin ga

15. DeterminerN

DeterminerN are the simplest of all noun modifiers. They are also often used with pronouns or with li, which is used to convert a noun to a modifier.

The following table shows examples of Noun DeterminerN.

Word	Base Meaning	English	SFGPL
lan	male	He is student.	ma lan gi so fa 'student'
len	female	She is student.	ma len gi so fa 'student'
don	plural	They are student.	ma don gi so fa 'student'
pun	place	I go to Tokyo.	ta ga na sa 'go' li pun fa 'Tokyo'
pin	time	I go today.	ta ga na sa 'go' li pin fa 'today'

DeterminerN can be added in multiples.

In general, in the case of the DeterminerN A, B and the noun N, the clause A B N means '(N of B) of A'.

15.1. Wordbook

English	SFGPL
he/she/they	gi
student	fa 'student'
1	ga
go	sa 'go'
Tokyo	fa 'Tokyo'
today	fa 'today'

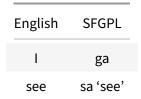
16. DeterminerV

Verb DeterminerV are the simplest to modify verbs. They are the equivalent of English auxiliary verbs. The following table shows some examples of Verb DeterminerV.

Word	Base Meaning	English	SFGPL
nak	possible	I can see a sea.	te ga nak sa 'see' fa 'sea'
nek	ability	I can swim.	ta ga nek sa 'swim'
nuk	obligation	I should swim.	ta ga nuk sa 'swim'
nok	necessary	I need to swim.	ta ga nok sa 'swim'
lak	duty	I must swim.	ta ga lak sa 'swim'
lik	want to	I want to swim.	ta ga lik sa 'swim'

We can also do verb conjugation, such as aspect.

16.1. Wordbook



English	SFGPL
sea	fa 'sea'
swim	sa 'swim'

17. Bool related classes

SFGPL has classes related to Bool, Bool type and BoolList type. These classes are used to represent boolean values, numerical values, and so on.

17.1. About Bool class

The Bool type is a class for representing true or false. False and True of type Bool are represented as follows.

	word
False	pas
True	pos

You can also use pis to connect a Bool type to a noun to indicate the truth or falsehood of a noun. The following statement is an example.

```
1 pis ma ga so fa 'student' pos
```

Bool types can also use NOT pa, OR be, AND ba, NOR bo and NAND bu, which are provided in LangObj. They can then perform logic operations.

17.2. About BoolList class

BoolList can create an array of boolean values. The following functions exist in BoolList.

Word	Explanation
fas	Create a list of true/false (BoolList)
fes A B	Gets the B-th value of BoolList(A)

Word	Explanation
fis A B	Add one Bool (B) to the end of the BoolList (A)
fus A B C	Get the B-th through C-th lists for a BoolList (A)
fos A B	Combine two BoolLists (A,B)
mas A B	Create a BoolList consisting of 2 Bool values (A,B)
mis X1~X4	Create a BoolList consisting of 4 Bool values (x1~x4)
mos X1~X8	Create a BoolList consisting of 8 Bool values (x1~x8)
tas A	BoolList (A) is considered a binary natural number
tes A	BoolList (A) is considered a binary integer
tis A	BoolList (A) is considered a binary floating number
tus A	BoolList (A) is considered an ASCII character

4-byte data can be used by doing the following.

This represents 0100 0000 0100 1001 0000 1111 1101 1011 in binary. It can also be used as a number by doing the following.

Туре	SFGPL	Value
Natural Number	tas fos fos mos pas pos pas	1078530011
	pas pas pas pas mos pas	
	pos pas pas pos pas pos	
	fos mos pas pas pas pos	
	pos pos pos mos pos pos pas	
	pos pos pas pos pos	
Integer Number	tes fos fos mos pas pos pas	1078530011
	pas pas pas pas mos pas	
	pos pas pas pos pas pas pos	
	fos mos pas pas pas pos	
	pos pos pos mos pos pos pas	
	pos pos pas pos pos	

Туре	SFGPL	Value
Floating Point Number	tis fos fos mos pas pos pas pas	3.1415927410125732
	pas pas pas mos pas pos	
	pas pas pos pas pas pos fos	
	mos pas pas pas pos pos	
	pos pos mos pos pos pas pos	
	pos pas pos pos	

17.3. Wordbook

English	SFGPL
I am a student	ma ga so fa 'student'

18. LangList

The LangList type exists as a basic data structure type in SFGPL. The following functions exist in LangList.

Word	Explanation
fat	Create a list of LangObj (LangList)
fet A B	Gets the B-th value of LangList (A)
fit A B	Add one LangObj (B) to the end of the LangList (A)
fut A B C	Get the B-th through C-th lists for a LangList (A)
fot A B	Combine two LangLists

LangList can store all classes that inherit from LangObj. The following is an example of LangList creation.

```
1 fit fit fit fit fat ga fa 'pen' sa 'go' la 'happy' ma ga so fa '
student'
```

To retrieve the first value from this LangList, do the following. In this case fis fas pas represents 0 in BoolList.

```
1 fet fit fit fit fit fat ga fa 'pen' sa 'go' la 'happy' ma ga so fa
    'student' fis fas pas
```

18.1. Wordbook

English	SFGPL
I	ga
pen	fa 'pen'
go	sa 'go'
happy	la 'happy'
I am a student	ma ga so fa 'student'

19. LangFunc

The LangFunc type exists as a basic function type in SFGPL. The following functions exist in LangFunc.

Word	Explanation
pat A B	Set up a function that returns B named A with a certain LangList as an argument
pit	Used for pat arguments
pot A B	Execute the configured LangFunc named A with argument B

LangFunc sets the function by pat. Also, pit can be included in the second argument of pat statement. This will cause the actual value to be assigned and processed when the function is executed. The first argument of pat is a function name. And the function name cannot be duplicated. The following is an example of a function setup.

```
1 pat fa 'xor' fit fat bu bu fet pit mas pas pas bu fet pit mas pas pas
fet pit mas pas pos bu bu fet pit mas pas pas fet pit mas pas pos
fet pit mas pas pos
```

The function takes the XOR of the zeroth and first values of a LangList. When (false, false) is given to the

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function, do the following.

```
1 pot fa 'xor' fit fit fat pas pas
```

20. How numbers are expressed

The Number and NumberList classes exist in SFGPL to represent decimal numbers.

20.1. Number class

The Number class is a class for cardinal numerals and is not used by itself. In this class, values from 0 to 9 are defined, as shown in the table below.

Meaning	SFGPL
0	pal
1	pel
2	pil
3	pul
4	pol
5	bal
6	bel
7	bil
8	bul
9	bol

20.2. NumberList class

Use the NumberList class when used as a normal numeral. This class can store radix data in a list. Numbers are represented as decimal numbers, with the largest digit stored first, starting with the 0th digit.

The NumberList class has the following list-type functions. However, these functions cannot be applied to NumberList after numerical calculation as described below.

Word	Explanation
fal	Create a list of Number(NumberList)
fel A B	Gets the B-th value of NumberList(A)
fil A B	Add one Number to the end of the NumberList
ful A B C	Get the B-th through C-th lists for a NumberList (A)
fol A B	Combine two NumberLists

In addition, dedicated functions are available to create 1~5-digit integers, as shown in the table below.

Word	Explanation
mal	Create a NumberList consisting of one decimal digit
mel	Create a NumberList consisting of two decimal digit
mil	Create a NumberList consisting of three decimal digit
mul	Create a NumberList consisting of four decimal digit
mol	Create a NumberList consisting of five decimal digit

In the SFGPL, "I have five apples." can be expressed as follows.

```
1 mi ga so ma fa 'apple' so mal bal
```

The expression "I have fifteen apples." can be expressed as follows.

```
1 mi ga so ma fa 'apple' so mel pel bal
```

Furthermore, the representation of numbers with more than five digits in decimal can be achieved by using fol and concatenating NumberList. The following sentence represents "Japan has 125416877 people." in the SFGPL.

```
1 mi fa 'Japan' so ma fa 'people' so fol mul pel pil bal pol mol pel bel
bul bil bil
```

Then, as shown in the following table, there are functions in NumberList that perform the four arithmetic operations.

	SFGPL
Addition	tal
Subtraction	tel
Multiplication	til
Division	tul

In addition, there are functions that convert integer BoolList and NumberList into each other, as shown in the table below.

SFGPL	from	to
tol	NumberList	BoolList
tos	BoolList	NumberList

20.3. Wordbook

English	SFGPL	
i	ga	
apple	fa 'apple'	
Japan	fa 'Japan'	
people	fa 'people'	

Part IV.

Appendix

21. Examples of the use of loan words other than those of English origin

The SFGPL also allows the use of loanwords that are not of English origin. In such cases, the usage is basically the same as for English. However, the word order cannot be changed, so it may differ from

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the word order of the original language.

21.1. Borrowed words of Japanese origin

For example, to form the sentence "私はりんごを持っている。", use the following.

```
1 mi ga so fa 'りんご'
```

The sentence "私の鞄は赤い。", which Compound Sentences contains, should be as follows.

```
1 me mi ga so san fa '鞄' so la '赤い'
```

21.2. Borrowed words of Esperanto origin

When using Esperanto words as loan words, it is recommended that, as a rule, the form without the part-of-speech suffix should be used.

For example, to form the sentence "Mi havas pomon." do the following.

```
1 mi ga so fa 'pom'
```

For example, to form the sentence "Mia sako estas ruĝa." do the following.

```
1 me mi ga so san fa 'sak' so la 'ruĝ'
```

22. Example Sentence

The following table shows example sentences from the SFGPL.

SFGPL	Python	Translation
ma ga so me fa 'worker' so li pun fa 'office'	Noun.eq(Pronoun.I() , Verb.none() , Noun.haveP(I am an office worker.
F 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Noun("'worker' "),	
	Verb.none(), Modifier.N2M(
	DeterminerN.place(Noun(
	"'office'")))))	

SFGPL	Python	Translation
ma ge so me fa 'worker' so li pun fa 'office'	Noun.eq(Pronoun.you(), Verb.none(), Noun.haveP(Noun("'worker'"), Verb.none(), Modifier.N2M(DeterminerN.place(Noun("'office'")))))	You are an office worker.
ma lan gi so me fa 'worker' so li pun fa 'office'	<pre>Noun.eq(DeterminerN.male(Pronoun.he()), Verb.none(), Noun.haveP(Noun("'worker'"), Verb.none(), Modifier.N2M(DeterminerN.place(Noun("'office'")))))</pre>	He is an office worker.
ma len gi so me fa 'worker' so li pun fa 'office'	Noun.eq(DeterminerN.female(Pronoun.he()), Verb.none(), Noun.haveP(Noun("'worker'"), Verb.none(), Modifier.N2M(DeterminerN.place(Noun("'office'")))))	She is an office worker.
ma don ga so me fa 'worker' so li pun fa 'office'	<pre>Noun.eq(DeterminerN.plural(Pronoun.I()), Verb.none(), Noun.haveP(Noun("'worker'"), Verb.none(), Modifier.N2M(DeterminerN.place(Noun("'office'")))))</pre>	We are an office worker
ma don ge so me fa 'worker' so li pun fa 'office'	Noun.eq(DeterminerN.plural(Pronoun.you()), Verb.none() , Noun.haveP(Noun("'worker'"), Verb.none(),	You are an office worker

SFGPL	Python	Translation
ma don gi so me fa 'worker' so li pun fa 'office'	<pre>Noun.eq(DeterminerN.plural(Pronoun.he()), Verb.none(), Noun.haveP(Noun("'worker'"), Verb.none(), Modifier.N2M(DeterminerN.place(Noun("'office'")))))</pre>	They are an office worker
di ma ga so me fa 'worker' so li pun fa 'office'	Phrase.past(Noun.eq(Pronoun.I(), Verb.none(), Noun.haveP(Noun("'worker'"), Verb.none(), Modifier.N2M(DeterminerN.place(Noun("'office'")))))))	I was an office worker.
du ma ga so me fa 'worker' so li pun fa 'office'	Phrase.future(Noun.eq(Pronoun.I(), Verb.none(), Noun.haveP(Noun("'worker'"), Verb.none(), Modifier.N2M(DeterminerN.place(Noun("'office'")))))))	I will be an office worker.
ta ga na sa 'go' li pun mu ga so san fa 'school'	Noun.do(Pronoun.I(), Verb.add(Verb("'go'"), Modifier.N2M(DeterminerN.place(Noun.belong(Pronoun.I(), Verb.none(), DeterminerN.stressed(Noun("'school'"))))))))	I go to my school.

SFGPL	Python	Translation
di ta ga na sa 'go' li pun mu ga so san fa 'school'	Phrase.past(Noun.do(Pronoun.I(), Verb.add(Verb("'go'"), Modifier.N2M(DeterminerN.place(Noun.belong(Pronoun.I(),	I went to my school.
du ta ga na sa 'go' li pun mu ga so san fa 'school'	Phrase.future(Noun.do(Pronoun.I(), Verb.add(Verb("'go'"), Modifier.N2M(DeterminerN.place(Noun.belong(Pronoun.I(),	I will go to my school.
te ga sa 'read' fa 'book'	Noun.doT(Pronoun.I(), Verb("'read'"), Noun("'book'"))	I read a book.
di ti ga na sa 'send' li pin fa 'yesterday' lan gi fa 'letter'	Phrase.past(Noun.give(Pronoun.I(), Verb.add(Verb("'send'"), Modifier.N2M(DeterminerN.time(Noun("'yesterday'")))), DeterminerN.male(Pronoun.he()), Noun("'letter'")))	I sent him a letter yesterday
di tu ga so lan gi fa 'teacher'	Phrase.past(Noun.makeN(Pronoun.I(), Verb.none(), DeterminerN.male(Pronoun.he()), Noun("'teacher'")))	I made him a teacher.

SFGPL	Python	Translation
di to ga so lan gi la 'happy'	Phrase.past(Noun.makeM(Pronoun.I(), Verb.none(), DeterminerN.male(Pronoun.he()), Modifier("'happy'")))	I made her happy.
mo lan gi so la 'tall' ga	Noun.gt(DeterminerN.male(Pronoun.he()), Verb.none(), Modifier(" 'tall' "), Pronoun.I())	He is taller than me.
di te ga na sa 'put' li pun min fa 'table' ba fa 'apple' fa 'peach'	Phrase.past(Noun.doT(Pronoun.I(), Verb.add(Verb("'put'"), Modifier.N2M(DeterminerN.place(DeterminerN.on(Noun("'table'"))))), LangObj.AND(Noun("'apple'"), Noun("'peach'"))))	I put an apple and a peach on the table.
ta ga na sa 'go' li pun fa 'Osaka'	Noun.do(Pronoun.I(), Verb.add(Verb("'go'"), Modifier.N2M(DeterminerN.place(Noun("'Osaka'")))))	I go to Osaka.
di ta ga na sa 'go' li pun fa 'Osaka'	Phrase.past(Noun.do(Pronoun.I(), Verb.add(Verb("'go'"), Modifier.N2M(DeterminerN.place(Noun("'Osaka'"))))))	I went to Osaka.
du ta ga na sa 'go' li pun fa 'Osaka'	Phrase.future(Noun.do(Pronoun.I(), Verb.add(Verb("'go'"), Modifier.N2M(DeterminerN.place(Noun("'Osaka'"))))))	I will go to Osaka.

SFGPL	Python	Translation
te ga sa 'create' fa 'table'	Noun.doT(Pronoun.I() , Verb("'create'") , Noun("'table'"))	I create a table.
te ga sa 'create' ma gu so san fa 'table'	<pre>Noun.doT(Pronoun.I(), Verb("'create'"), Noun.eq(Pronoun.proximal(), Verb.none(), DeterminerN.stressed(Noun("'table'"))))</pre>	I create this table.
pa te ga sa 'create' fa 'table'	LangObj.NOT(Noun.doT(Pronoun.I(), Verb("'create'") , Noun("'table'")))	I don't create a table.
te ge sa 'create' fa 'table'	Noun.doT(Pronoun.you() , Verb("'create'") , Noun("'table'"))	You create a table.
da te ge sa 'create' fa 'table'	Phrase.interrogative(Noun.doT(Pronoun.you(), Verb("'create'"), Noun("'table'")))	Do you create a table?
da di te ge sa 'create' fa 'table'	Phrase.interrogative(Phrase.past(Noun.doT(Pronoun.you(), Verb("'create'"), Noun("'table'"))))	Did you create a table?
da te ben wa sa 'create' fa 'table'	Phrase.interrogative(Noun.doT(DeterminerN.human(Pronoun.interrogative()), Verb("'create'"), Noun("'table'")))	Who create the table?

SFGPL	Python	Translation
da te ge sa 'create' pen wa	Phrase.interrogative(Noun.doT(Pronoun.you(), Verb("'create'"), DeterminerN.thing(Pronoun.interrogative())))	What do you create?
da te ge na sa 'create' li pin wa fa 'table'	Phrase.interrogative(Noun.doT(Pronoun.you(), Verb.add(Verb("'create'"),	When do you create the table?
da te ge na sa 'create' li pon wa fa 'table'	Phrase.interrogative(Noun.doT(Pronoun.you(), Verb.add(Verb("'create'"),	Why do you create the table?
de te we sa 'create' fa 'table'	Phrase.imperative(Noun.doT(Pronoun.indefinite(), Verb("'create'"), Noun("'table'")))	Create a table!
di te ga sa 'create' fa 'table'	Phrase.past(Noun.doT(Pronoun.I(), Verb("'create'") , Noun("'table'")))	I created a table.
du te ga sa 'create' fa 'table'	Phrase.future(Noun.doT(Pronoun.I(), Verb("'create'") , Noun("'table'")))	I will create a table.

Python	Translation
Noun.do(Noun(" 'table' "), Verb.add(Verb.passive(Verb(" 'create' ")), Modifier.N2M(The table is created by me.
Noun.doT(Pronoun.I(), Verb.progressive(Verb("'create'")), Noun("'table'"))	I am creating a table.
Noun.doT(Pronoun.I(), Verb.perfective(Verb("'create'")), Noun("'table'"))	I have created a table.
Phrase.future(Noun.doT(Pronoun.I(), DeterminerV.Estimation100(Verb("'create'")), Noun("'table'")))	I 100% probability will create a table.
Phrase.future(Noun.doT(Pronoun.I(), DeterminerV.Estimation75(Verb(" 'create' ")), Noun(" 'table' ")))	I 75% probability will create a table.
Phrase.future(Noun.doT(Pronoun.I(), DeterminerV.Estimation50(Verb("'create'")), Noun("'table'")))	I 50% probability will create a table.
Phrase.future(Noun.doT(Pronoun.I(), DeterminerV.Estimation25(Verb("'create'")), Noun("'table'")))	I 25% probability will create a table.
	Noun.do(Noun("'table'"), Verb.add(Verb.passive(Verb("'create'")), Modifier.N2M(DeterminerN.near(Pronoun.I()

SFGPL	Python	Translation
du te ga pok sa 'create' fa 'table'	Phrase.future(Noun.doT(Pronoun.I(), DeterminerV.Estimation0(Verb("'create'")), Noun("'table'")))	I 0% probability will create a table.
te ga fak sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.Frequency100(Verb("'create'")), Noun("'table'"))	I 100% frequently create a table.
te ga fek sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.Frequency75(Verb("'create'")), Noun("'table'"))	I 75% frequently create a table.
te ga fik sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.Frequency50(Verb("'create'")), Noun("'table'"))	I 50% frequently create a table.
te ga fuk sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.Frequency25(Verb("'create'")),Noun("'table'"))	I 25% frequently create a table.
te ga fok sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.Frequency0(Verb("'create'")),Noun("'table'"))	I 0% frequently create a table
te ga bik sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.present(Verb("'create'")), Noun("'table'"))	I create a table.
te ga bak sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.past(Verb("'create'")), Noun("'table'"))	I created a table.

SFGPL	Python	Translation
te ga bok sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.future(Verb("'create'")), Noun("'table'"))	I will create a table.
di te ga bak sa 'create' fa 'table'	Phrase.past(Noun.doT(Pronoun.I(), DeterminerV.past(Verb("'create'")), Noun("'table'")))	I created a table.(Past in the past at a point in time)
di te ga bik sa 'create' fa 'table'	Phrase.past(Noun.doT(I created a table.(Present in the past at a point in time)
di te ga bok sa 'create' fa 'table'	Phrase.past(Noun.doT(Pronoun.I(), DeterminerV.future(Verb("'create'")), Noun("'table'")))	I would create a table.(Future in the past at a point in time)
di te ga bak sa 'create' fa 'table'	Phrase.past(Noun.doT(Pronoun.I(), DeterminerV.past(Verb("'create'")), Noun("'table'")))	I will have created a table.(Past in the future at a point in time)
di te ga bik sa 'create' fa 'table'	Phrase.past(Noun.doT(I will create a table.(Present in the future at a point in time)
di te ga bok sa 'create' fa 'table'	Phrase.past(Noun.doT(I will create a table.(Future in the future at a point in time)

SFGPL	Python	Translation
te ga nak sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.Possible(Verb("'create'")), Noun("'table'"))	I can create a table.
te ga nek sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.Ability(Verb("'create'")), Noun("'table'"))	I can create a table.
te ga nik sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.Will(Verb("'create'")), Noun("'table'"))	I will create a table.
te ga nuk sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.Obligation(Verb("'create'")), Noun("'table'"))	I should create a table.
te ga nok sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.Necessary(Verb("'create'")), Noun("'table'"))	I need to create a table.
te ga lak sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.Duty(Verb("'create'")), Noun("'table'"))	I must create a table.
te ga lek sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.forced(Verb("'create'")), Noun("'table'"))	I am forced to create a table.
te ga lik sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.want(Verb("'create'")), Noun("'table'"))	I want to create a table.

SFGPL	Python	Translation
te ga luk sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.dare(Verb("'create'")), Noun("'table'"))	I dare create a table.
te ga lok sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.allow(Verb("'create'")), Noun("'table'"))	I allow to create a table.
te ga kak sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.easy(Verb("'create'")), Noun("'table'"))	I am easy to create a table.
te ga kek sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.hard(Verb("'create'")), Noun("'table'"))	I am hard to create a table.
te ga kik sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.habit(Verb("'create'")),Noun("'table'"))	I habitually create a table.
te ga kuk sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.Polite(Verb("'create'")), Noun("'table'"))	I create a table.(polite expression)
te lan gi kok sa 'create' fa 'table'	Noun.doT(DeterminerN.male(He creates a table.(respectful expression)
te ga gak sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.volitional(Verb("'create'")), Noun("'table'"))	I consciously create a table.

SFGPL	Python	Translation
te ga gek sa 'create' fa 'table'	Noun.doT(Pronoun.I(), DeterminerV.nonVolitional(Verb("'create'")), Noun("'table'"))	I unconsciously create a table.
da te ge gik sa 'create' fa 'table'	Phrase.interrogative(Noun.doT(Pronoun.you(), DeterminerV.Requests(Verb("'create'")), Noun("'table'"))))	Can you create a table?
da te ga guk sa 'create' fa 'table'	Phrase.interrogative(Noun.doT(Pronoun.I(), DeterminerV.Permission(Verb("'create'")), Noun("'table'")))	May I create a table?
da te ga gok sa 'create' fa 'table'	Phrase.interrogative(Noun.doT(Pronoun.I(), DeterminerV.Suggestion(Verb("'create'")), Noun("'table'")))	Shall I create a table?
te ga sa 'get' ma fa 'information' so te lan gi nu sa 'create' fa 'table'	Noun.doT(Pronoun.I(), Verb("'get'"), Noun.eq(Noun("'information'"), Verb.none() , Noun.doT(DeterminerN.male(Pronoun.he()), Verb.perfective(Verb("'create'")), Noun("'table'"))))	I get the information that he has create a table.

SFGPL	Python	Translation
di te ga sa 'get' ma fa 'information' so te lan gi nu sa 'create' fa 'table'	Phrase.past(Noun.doT(Pronoun.I(), Verb("'get'"),	I got the information that he has create a table.
di te ga sa 'get' ma fa 'information' so te lan gi nu sa 'create' ma don fa 'table' so mal pul	Phrase.past(Noun.doT(Pronoun.I(), Verb("'get'"),	I got the information that he has create three tables.
di moa ga so te lan gi sa 'create' fa 'table' fa 'John'	<pre>Phrase.past(Noun.hearSay(Pronoun.I(), Verb.none(), Noun.doT(DeterminerN.male(Pronoun.he()), Verb("'create'"), Noun("'table'")), Noun("'John'")))</pre>	According to John, I heard that he create a table.

SFGPL	Python	Translation
di moa ge so te lan gi sa 'create' fa 'table' fa 'John'	Phrase.past(Noun.hearSay(Pronoun.you(), Verb.none(), Noun.doT(DeterminerN.male(Pronoun.he()), Verb("'create'"), Noun("'table'")), Noun("'John'")))	According to John, you heard that he create a table.

23. About version

The version of this project is __version__.py. In particular, if you want to run it in Python, you can check it by executing the following code.

```
1 SFGPL.__version__.
```

In addition, the version of the corpus at the time it was executed is listed in the JSON file of the corpus output by SFGPL.SFGPLCorpus.saveJson of Python code.

23.1. Version naming conventions

The SFGPL uses and manages versions like A.B.C. The content of updates due to changes in version names is based on the following table.

Version	Update	Contents
A	Main update	When there are major changes to words, programs, etc.
В	Minor update	When there are small changes to words, programs, etc.
С	Patch update	When there are small changes or changes in the documentation due to bug fixes in the program etc.

23.2. Version update details

Version	Update contents
1.0.0	Official Release
1.0.1	Add or modify example sentences
1.0.2	Add or modify example sentences
1.0.3	Addition of details of updates per version
1.1.0	Added details on how to use SFGPL in Python
1.1.1	How_to_Use_SFGPL_in_Python.ipynb fixed
2.0.0	Add classes for logical values
2.0.1	Add and modify to Python programs
2.0.2	Add and modify to documents
2.1.0	Add BoolList.get() and BoolList.slice()
3.0.0	Add LangList and LangFunc classes
3.0.1	How_to_Use_SFGPL_in_Python.ipynb fixed
3.1.0	Fixed LangFunc.runFunc()
3.1.1	Add and modify to documents
3.1.2	Add and modify to documents
3.1.3	Add and modify to documents
4.0.0	Add DeterminerV class
4.0.1	Fixed dictionary
4.0.2	Add and modify to documents
4.0.3	Add and modify to documents
4.0.4	Add and modify to documents
4.0.5	Add and modify to documents
4.0.6	Add and modify to documents
4.0.7	Add and modify to documents
4.0.8	Add and modify to documents
4.0.9	Add and modify to documents

Version	Update contents
4.0.10	Add and modify to documents
4.0.11	Add and modify to documents
4.0.12	Add and modify to documents
4.0.13	Add and modify to documents
4.1.0	Add Noun.hearSay()
4.1.1	Fixed dictionary
4.1.2	Add and modify to documents
4.1.3	Add and modify to documents
5.0.0	Add Number and NumberList classes
5.0.1	Add and modify to documents
5.0.2	Add and modify to documents
5.0.3	Add and modify to documents
5.0.4	Add and modify to documents
5.0.5	Add and modify to documents
5.0.6	Add and modify to documents
5.0.7	Add and modify to documents
5.0.8	Add and modify to documents
5.0.9	Add and modify to documents
5.0.10	Add and modify to documents
5.0.11	Add and modify to documents
5.0.12	Add and modify to documents
5.0.13	Add and modify to documents
5.0.14	Add and modify to documents
5.0.15	Add and modify to documents
5.0.16	Add and modify to documents
5.0.17	Add and modify to documents
5.0.18	Add and modify to documents

Version	Update contents
5.1.0	Add LangObj.logicIFELSE() and NumberList.isPN()
5.1.1	Add and modify to documents
5.1.2	Add and modify to documents
5.1.3	Add and modify to documents