
Aruudy Documentation

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Contents

| | |
|-------------------------------------|-----------|
| 1 Functions | 3 |
| 1.1 normalize | 3 |
| 1.2 process_shatr | 3 |
| 1.3 prosody_form | 4 |
| 2 Classes | 5 |
| 2.1 Bayt | 5 |
| 2.2 Shatr | 5 |
| 3 aruudy.poetry.meter Module | 7 |
| 3.1 Functions | 7 |
| 3.2 Classes | 9 |
| 4 aruudy.poetry.foot Module | 15 |
| 4.1 Classes | 15 |
| Python Module Index | 21 |
| Index | 23 |

This module is used for prosody tasks:

- normalize a text
- find prosody form of a text
- find the meter

CHAPTER 1

Functions

| | |
|----------------------------------|----------------------------|
| <code>normalize(text)</code> | Normalize a given text. |
| <code>process_shatr(text)</code> | process a shatr. |
| <code>prosody_form(text)</code> | Generate the prosody form. |

1.1 normalize

`aruudy.poetry.prosody.normalize (text)`
Normalize a given text.

The text is normalized by:

- deleting non Arabic characters.
- Deleting Tatweel (a character used as ligature)
- Vocalizing and correcting letters

Parameters `text (str)` – The text to be normalized.

Returns A normalized text.

Return type `str`

1.2 process_shatr

`aruudy.poetry.prosody.process_shatr (text)`
process a shatr.

Parameters `text (str)` – The text representing the shatr (part of verse).

Returns The Shatr containing information about the text.

Return type `Shatr`

1.3 prosody_form

`aruudy.poetry.prosody.prosody_form(text)`
Generate the prosody form.

The prosody form is generated by:

- deleting some letters such as al-
- adding some letters; for example, shadda.

Parameters `text (str)` – A normal vocalized Arabic text.

Returns The text in its prosody form.

Return type `str`

CHAPTER 2

Classes

`Bayt(text[, sep])`

`Shatr(text)`

Shatr (Hemistich) object.

2.1 Bayt

```
class aruudy.poetry.prosody.Bayt (text, sep='t')  
    Bases: object
```

2.2 Shatr

```
class aruudy.poetry.prosody.Shatr (text)  
    Bases: object
```

Shatr (Hemistich) object.

In Arabic, a verse is composed of two hemistiches (shatr). This object will contain all information about a given text.

Parameters `text (str)` – The text to be analysed.

orig

the original input text.

Type `str`

norm

the text after normalization.

Type `str`

prosody

prosody form of a text.

Type str

ameter

the Arabic meter using “w” as watad (peg) and “s” as sabab (cord).

Type str

emeter

the English meter using “-” for long syllables and “u” for short ones.

Type str

bahr

The bahr (meter) of the input text.

Type Bahr

parts

The text split into different parts. Each part is a dict with these components:

- emeter: the english meter of that part
- type: the type of that part: is it regular or else
- part: the text of that part
- mnemonic: the mnemonic text of that part

Type list(*Part*)

Methods Summary

| | |
|-------------------------------------|--------------------------------------|
| <code>to_dict([bahr, parts])</code> | Generates a dict object of the Bahr. |
|-------------------------------------|--------------------------------------|

Methods Documentation

to_dict (*bahr=False, parts=False*)

Generates a dict object of the Bahr.

Parameters

- **bahr** (`bool`) – if true: the bahr object will be dictionarized too. By default, it is False. Hence, the “bahr” is an object of type Bahr
- **parts** (`bool`) – if true: the list of parts will be dictionarized too. By default, it is False. Hence, the parts in the list are objects of type Part

Returns

A dictionary object describing the Shatr.

- norm (str): normalized text
- prosody (str): prosody form of the text
- ameter (str): Arabic meter of the text
- emeter (str): English meter of the text
- bahr (Bahr or dict): the bahr of the text
- parts (list(*Part* or dict)): the parts of the text

Return type dict

CHAPTER 3

aruudy.poetry.meter Module

3.1 Functions

| | |
|--|---|
| <code>a2e_meter(ameter)</code> | Transforms an Arabic meter to an English one. |
| <code>e2a_meter(emeter)</code> | Transforms an English meter to an Arabic one. |
| <code>extract_meter(bahrForm[, used])</code> | Extract the meter description from a list of <code>Tafila</code> objects. |
| <code>get_ameter(text)</code> | Get the Arabic meter of a given text. |
| <code>get_bahr(name[, dic])</code> | Search for poetry Bahr by name. |
| <code>get_names([lang])</code> | get a list of meters names. |
| <code>name_type(name)</code> | decides if a name is in English or Arabic. |
| <code>search_bahr(emeter[, units])</code> | Search for Bahr of a given English meter. |

3.1.1 a2e_meter

`aruudy.poetry.meter.a2e_meter(ameter)`

Transforms an Arabic meter to an English one. The Arabic meter uses vocalization as a basis:

- “w” watad (peg) which are vocalized letters
- “s” sabab (cord) which are vowels and unvocalized letters

While English meter uses syllables:

- “_” for long syllables, equivalent to “ws” in the Arabic one
- “u” for short syllables, equivalent to “w” in the Arabic one.

Parameters `ameter` (`str`) – The Arabic meter using the two letters: “w” and “s”.

Returns The English meter using the two characters: “_” and “u”.

Return type `str`

3.1.2 e2a_meter

`aruudy.poetry.meter.e2a_meter(emeter)`

Transforms an English meter to an Arabic one. The English meter uses syllables as a basis:

- “-” for long syllables, equivalent to “ws” in the Arabic one
- “u” for short syllables, equivalent to “w” in the Arabic one.

While the Arabic meter uses vocalization:

- “w” watad (peg) which are vocalized letters
- “s” sabab (cord) which are vowels and unvocalized letters

Parameters `emeter (str)` – The English meter using the two characters: “-” and “u”.

Returns The Arabic meter using the two letters: “w” and “s”.

Return type str

3.1.3 extract_meter

`aruudy.poetry.meter.extract_meter(bahrForm, used=True)`

Extract the meter description from a list of `Tafila` objects.

Parameters

- `bahrForm (BahrForm)` – An object describing the meter’s form.
- `used (bool)` – Meters, in Arabic, can have used forms different than standard ones. if True: the result is used form. Otherwise, it is standard form

Returns

A dictionary object describing the meter represented by the feet. The dictionary contains these elements:

- type: a string describing the type of each foot (tafila)
- mnemonic: a string describing the mnemonic of each foot.
- emeter: a string describing the English meter of each foot.
- ameter: a string describing the Arabic meter of each foot.

Return type dict

3.1.4 get_ameter

`aruudy.poetry.meter.get_ameter(text)`

Get the Arabic meter of a given text. Produces the Arabic meter of a given text in prosody form. The Arabic meter is composed of two letters:

- “w” watad (peg) which are vocalized letters
- “s” sabab (cord) which are vowels and unvocalized letters

Parameters `text (str)` – Arabic text in prosody form.

Returns Arabic meter of the input text. A string composed of “w” and “s”.

Return type str

3.1.5 get_bahr

`aruudy.poetry.meter.get_bahr(name, dic=True)`
Search for poetry Bahr by name.

Parameters

- **name** (`str`) – name of the poetry Bahr (meter).
- **dic** (`bool`) – True(default): it returns a dict object with all information. If False, it returns an object of type Bahr

Returns dict: containing the information. or a Bahr object. or None

Return type dict

3.1.6 get_names

`aruudy.poetry.meter.get_names(lang=None)`
get a list of meters names.

Parameters `lang` (`str`) – If not specified: the result will be all available names.

Returns A list of names.

Return type list(Union[str, dict])

3.1.7 name_type

`aruudy.poetry.meter.name_type(name)`
decides if a name is in English or Arabic.

Parameters `name` (`str`) – The name we want to test.

Returns “english” or “arabic”.

Return type str

3.1.8 search_bahr

`aruudy.poetry.meter.search_bahr(emeter, units=[])`
Search for Bahr of a given English meter.

Parameters

- **emeter** (`str`) – English meter.
- **units** (`list(str)`) – A list of vocalized and unvocalized elements, generated from the text.

Returns A tuple of the found meter and the part’s description. If not found, it will return (None, None)

Return type tuple(Bahr, Part)

3.2 Classes

| | |
|---------------------------------|---|
| <code>Bahr</code> (info) | Representation of the Arabic meter. |
| <code>BahrForm</code> (feet) | The form of a Bahr (meter). |
| <code>FT</code> | alias of <code>aruudy.poetry.foot.TafilaType</code> |
| <code>Part</code> (tafila_comp) | The text's part description. |
| <code>TafilaComp</code> (comp) | Tafila (foot) components. |

3.2.1 Bahr

class aruudy.poetry.meter.**Bahr** (*info*)

Bases: `object`

Representation of the Arabic meter.

Parameters `info` (`dict`) – Description of parameter *info*.

name

Bahr's name, which is composed of:

- arabic: its name in Arabic
- english: its name in English
- trans: its Arabic name's transliteration.

Type `dict`

used_scansion

The most used scansion. The dictionary contains these elements:

- type: a string describing the type of each foot (tafila)
- mnemonic: a string describing the mnemonic of each foot.
- emeter: a string describing the English meter of each foot.
- ameter: a string describing the Arabic meter of each foot.

Type `dict`

meter

A list of meter's forms.

Type `list(BahrForm)`

std_scansion

the standard scansion. The dictionary contains these elements:

- type: a string describing the type of each foot (tafila)
- mnemonic: a string describing the mnemonic of each foot.
- emeter: a string describing the English meter of each foot.
- ameter: a string describing the Arabic meter of each foot.

Type `dict`

Methods Summary

| | |
|--|--|
| <code>get_names()</code> | Get the names of the meter. |
| <code>test_name(key, value)</code> | Test if . |
| <code>to_dict()</code> | Transform the bahr to a dictionary. |
| <code>validate(emeter[, units])</code> | Validate a given emeter into one of the forms. |

Methods Documentation

`get_names()`

Get the names of the meter.

Returns

Bahr’s name, which is composed of:

- arabic: its name in Arabic
- english: its name in English
- trans: its Arabic name’s transliteration.

Return type `dict`

`test_name(key, value)`

Test if .

Parameters

- **key** (`str`) – can be “arabic”, “english” or “trans”.
- **value** (`str`) – The name we are looking for.

Returns True, if this meter have the name specified by “value”

Return type `bool`

`to_dict()`

Transform the bahr to a dictionary.

Returns The dictionary has three components “name”, “used_scansion” and “std_scansion” which are dictionaries too. They are described in the attributes section.

Return type `dict`

`validate(emeter, units=[])`

Validate a given emeter into one of the forms.

Search for a form which the given emeter follows.

Parameters

- **emeter** (`str`) – English meter.
- **units** (`list(str)`) – A list of vocalized and unvocalized elements, generated from the text.

Returns the part object.

Return type `Part`

3.2.2 BahrForm

```
class aruudy.poetry.meter.BahrForm(feet)
Bases: object
```

The form of a Bahr (meter).

For a given Arabic meter (Bahr), there may be multiple forms.

Parameters `feet` (`list(Tafiila)`) – A list of feet describing the meter.

feet

A list of feet describing the meter.

Type `list(Tafiila)`

Methods Summary

| | |
|--|--|
| <code>validate(emeter[, units])</code> | Checks if an emeter follows this meter's form. |
|--|--|

Methods Documentation

validate (`emeter, units=[]`)

Checks if an emeter follows this meter's form.

Parameters

- **emeter** (`str`) – The English meter of the text.
- **units** (`list(str)`) – A list of vocalized and unvocalized elements, generated from the text.

Returns The part object.

Return type `Part`

3.2.3 Part

```
class aruudy.poetry.meter.Part(tafila_comp)
Bases: aruudy.poetry.foot.TafiilaComp
```

The text's part description.

Parameters `tafiila_comp` (`TafiilaComp`) – The description of the Foot which this part is based on.

ameter

The Arabic meter.

Type `str`

emeter

The english meter.

Type `type`

text

The part of text following that meter.

Type `type`

Methods Summary

| | |
|-------------------------------|--|
| <code>extract([units])</code> | Extracts the part of text following the meter. |
| <code>to_dict()</code> | Transforms this object to a dictionary. |

Methods Documentation

`extract (units=[])`

Extracts the part of text following the meter.

Parameters `units` (`list (str)`) – A list of vocalized and unvocalized elements, generated from the text.

Returns the text following the meter.

Return type `str`

`to_dict()`

Transforms this object to a dictionary.

Returns

The dictionary will contain:

- `type` (`TafilaComp`): the type of the foot
- `emeter` (`str`): the English meter
- `ameter` (`str`): the Arabic meter
- `mnemonic` (`str`): the mnemonic describing the meter
- `text` (`str`): the text following the meter

Return type `dict`

CHAPTER 4

aruudy.poetry.foot Module

4.1 Classes

| | |
|-------------------------------|--|
| <i>Tafiila</i> | A class describing the foot. |
| <i>TafiilaComp</i> (comp) | Tafiila (foot) components. |
| <i>TafiilaType</i> | A class with different anomalies (Zuhaf and Illa) happening to the Foot. |
| <i>WSWSWSW</i> ([var]) | |
| <i>WSWSWWS</i> ([var]) | |
| <i>WSWWS</i> ([var]) | |
| <i>WSWWWSWS</i> ([var]) | |
| <i>WWSWS</i> ([var]) | |
| <i>WWSWSWS</i> ([var]) | |
| <i>WWSWWWS</i> ([var]) | |
| <i>WWWSWWS</i> ([var]) | |
| <i>ZuhafIlla</i> (the_id, ar) | Short summary. |

4.1.1 Tafiila

```
class aruudy.poetry.foot.Tafiila
Bases: object
```

A class describing the foot.

Methods Summary

| | |
|------------------------------|---|
| <i>get_form</i> ([used]) | Get the form of this Tafiila (foot). |
| <i>process</i> (text_emeter) | Process a given emeter to decide if it starts with this foot. |

Methods Documentation

get_form (*used=True*)

Get the form of this Tafila (foot).

Parameters `used` (*bool*) – if True, it will return the used form. Otherwise, it will return the standard one.

Returns The form describing this Tafila (foot).

Return type *TafilaComp*

process (*text_emeter*)

Process a given emeter to decide if it starts with this foot.

Parameters `text_emeter` (*str*) – The English meter of the text we want to process.

Returns

If the text's emeter starts with one of this foot's forms, this function will return a tuple of:

- The form (*TafilaComp*) which the emeter starts with.
- The rest of the emeter

Otherwise, it returns (None, None)

Return type *tuple(TafilaComp, str)*

4.1.2 TafilaComp

class aruudy.poetry.foot.**TafilaComp** (*comp*)

Bases: *object*

Tafila (foot) components.

Parameters `comp` (*dict*) – A dictionary of the forme:

- `type` (*TafilaType*): the type of the foot
- `mnemonic` (*str*): the mnemonic describing the foot
- `emeter` (*str*): the English meter

type

the type of the foot.

Type *TafilaType*

mnemonic

the mnemonic describing the foot.

Type *str*

emeter

the English meter.

Type *str*

Methods Summary

| | |
|-------------------------------------|-------------------------------|
| <code>copy()</code> | Create a copy of this object. |
|-------------------------------------|-------------------------------|

Methods Documentation

`copy()`

Create a copy of this object.

Returns A copy of this object.

Return type *TafilaComp*

4.1.3 TafilaType

class aruudy.poetry.foot.TafilaType

Bases: *object*

A class with different anomalies (Zuhaf and Illa) happening to the Foot.

This class can be considered as an enum.

Attributes Summary

| | |
|----------------|------------|
| <i>AQL</i> | |
| <i>ASAB</i> | |
| <i>BATR</i> | |
| <i>HADAD</i> | |
| <i>HADF</i> | |
| <i>IDHMAR</i> | |
| <i>ISBAGH</i> | |
| <i>KAFF</i> | |
| <i>KASHF</i> | |
| <i>KHABL</i> | |
| <i>KHABN</i> | |
| <i>KHAZL</i> | |
| <i>NAQS</i> | |
| <i>QABDH</i> | |
| <i>QASR</i> | |
| <i>QATE</i> | |
| <i>QATF</i> | |
| <i>SALAM</i> | |
| <i>SALIM</i> | SALIM type |
| <i>SHAKL</i> | |
| <i>TADIIL</i> | |
| <i>TAI</i> | |
| <i>TARFIIL</i> | |
| <i>WAQS</i> | |

Attributes Documentation

AQL = *AQL*

ASAB = *ASAB*

```
BATR = BATR
HADAD = HADAD
HADF = HADF
IDHMAR = IDHMAR
ISBAGH = ISBAGH
KAFF = KAFF
KASHF = KASHF
KHABL = KHABL
KHABN = KHABN
KHAZL = KHAZL
NAQS = NAQS
QABDH = QABDH
QASR = QASR
QATE = QATE
QATF = QATF
SALAM = SALAM
SALIM = SALIM
    SALIM type
SHAKL = SHAKL
TADIIL = TADIIL
TAI = TAI
TARFIIL = TARFIIL
WAQS = WAQS
```

4.1.4 WSWWSWSW

```
class aruudy.poetry.foot.WSWWSWSW(var=[SALIM])
    Bases: aruudy.poetry.foot.Tafiiila
```

4.1.5 WSWSWWS

```
class aruudy.poetry.foot.WSWSWWS(var=[SALIM])
    Bases: aruudy.poetry.foot.Tafiiila
```

4.1.6 WSWWS

```
class aruudy.poetry.foot.WSWWS(var=[SALIM])
    Bases: aruudy.poetry.foot.Tafiiila
```

4.1.7 WSWWSWS

```
class aruudy.poetry.foot.WSWWSWS (var=[SALIM])
    Bases: aruudy.poetry.foot.Tafiila
```

4.1.8 WWSWS

```
class aruudy.poetry.foot.WWSWS (var=[SALIM])
    Bases: aruudy.poetry.foot.Tafiila
```

4.1.9 WWSWSWS

```
class aruudy.poetry.foot.WWSWSWS (var=[SALIM])
    Bases: aruudy.poetry.foot.Tafiila
```

4.1.10 WWSWWWS

```
class aruudy.poetry.foot.WWSWWWS (var=[SALIM])
    Bases: aruudy.poetry.foot.Tafiila
```

4.1.11 WWWSWWS

```
class aruudy.poetry.foot.WWWSWWS (var=[SALIM])
    Bases: aruudy.poetry.foot.Tafiila
```

4.1.12 Zuhaflla

```
class aruudy.poetry.foot.Zuhaflla (the_id, ar)
    Bases: object
```

Short summary.

Parameters

- **the_id** (*str*) – The ID of the type (anomaly).
- **ar** (*str*) – The name of the type in Arabic.

id

The ID of the type (anomaly)..

Type str

ar

The name of the type in Arabic.

Type str

Python Module Index

a

`aruudy.poetry.foot`, [15](#)
`aruudy.poetry.meter`, [7](#)
`aruudy.poetry.prosody`, [??](#)

Index

A

a2e_meter () (*in module aruudy.poetry.meter*), 7
ameter (*aruudy.poetry.meter.Part attribute*), 12
ameter (*aruudy.poetry.prosody.Shatr attribute*), 6
AQL (*aruudy.poetry.foot.TafilaType attribute*), 17
ar (*aruudy.poetry.foot.ZuhafIlla attribute*), 19
aruudy.poetry.foot (*module*), 15
aruudy.poetry.meter (*module*), 7
aruudy.poetry.prosody (*module*), 1
ASAB (*aruudy.poetry.foot.TafilaType attribute*), 17

B

bahr (*aruudy.poetry.prosody.Shatr attribute*), 6
Bahr (*class in aruudy.poetry.meter*), 10
BahrForm (*class in aruudy.poetry.meter*), 12
BATR (*aruudy.poetry.foot.TafilaType attribute*), 17
Bayt (*class in aruudy.poetry.prosody*), 5

C

copy () (*aruudy.poetry.foot.TafilaComp method*), 17

E

e2a_meter () (*in module aruudy.poetry.meter*), 8
emeter (*aruudy.poetry.foot.TafilaComp attribute*), 16
emeter (*aruudy.poetry.meter.Part attribute*), 12
emeter (*aruudy.poetry.prosody.Shatr attribute*), 6
extract () (*aruudy.poetry.meter.Part method*), 13
extract_meter () (*in module aruudy.poetry.meter*), 8

F

feet (*aruudy.poetry.meter.BahrForm attribute*), 12

G

get_ameter () (*in module aruudy.poetry.meter*), 8
get_bahr () (*in module aruudy.poetry.meter*), 9
get_form () (*aruudy.poetry.foot.Tafila method*), 16
get_names () (*aruudy.poetry.meter.Bahr method*), 11
get_names () (*in module aruudy.poetry.meter*), 9

H

HADAD (*aruudy.poetry.foot.TafilaType attribute*), 18
HADF (*aruudy.poetry.foot.TafilaType attribute*), 18

I

id (*aruudy.poetry.foot.ZuhafIlla attribute*), 19
IDHMAR (*aruudy.poetry.foot.TafilaType attribute*), 18
ISBAGH (*aruudy.poetry.foot.TafilaType attribute*), 18

K

KAFF (*aruudy.poetry.foot.TafilaType attribute*), 18
KASHF (*aruudy.poetry.foot.TafilaType attribute*), 18
KHABL (*aruudy.poetry.foot.TafilaType attribute*), 18
KHABN (*aruudy.poetry.foot.TafilaType attribute*), 18
KHAZL (*aruudy.poetry.foot.TafilaType attribute*), 18

M

meter (*aruudy.poetry.meter.Bahr attribute*), 10
mnemonic (*aruudy.poetry.foot.TafilaComp attribute*), 16

N

name (*aruudy.poetry.meter.Bahr attribute*), 10
name_type () (*in module aruudy.poetry.meter*), 9
NAQS (*aruudy.poetry.foot.TafilaType attribute*), 18
norm (*aruudy.poetry.prosody.Shatr attribute*), 5
normalize () (*in module aruudy.poetry.prosody*), 3

O

orig (*aruudy.poetry.prosody.Shatr attribute*), 5

P

Part (*class in aruudy.poetry.meter*), 12
parts (*aruudy.poetry.prosody.Shatr attribute*), 6
process () (*aruudy.poetry.foot.Tafila method*), 16
process_shatr () (*in module aruudy.poetry.prosody*), 3
prosody (*aruudy.poetry.prosody.Shatr attribute*), 5

prosody_form() (*in module aruudy.poetry.prosody*),
4

Q

QABDH (*aruudy.poetry.foot.TafilaType attribute*), 18
QASR (*aruudy.poetry.foot.TafilaType attribute*), 18
QATE (*aruudy.poetry.foot.TafilaType attribute*), 18
QATF (*aruudy.poetry.foot.TafilaType attribute*), 18

S

SALAM (*aruudy.poetry.foot.TafilaType attribute*), 18
SALIM (*aruudy.poetry.foot.TafilaType attribute*), 18
search_bahr () (*in module aruudy.poetry.meter*), 9
SHAKL (*aruudy.poetry.foot.TafilaType attribute*), 18
Shatr (*class in aruudy.poetry.prosody*), 5
std_scansion (*aruudy.poetry.meter.Bahr attribute*),
10

T

TADIIL (*aruudy.poetry.foot.TafilaType attribute*), 18
Tafiila (*class in aruudy.poetry.foot*), 15
TafiilaComp (*class in aruudy.poetry.foot*), 16
TafiilaType (*class in aruudy.poetry.foot*), 17
TAI (*aruudy.poetry.foot.TafilaType attribute*), 18
TARFIIL (*aruudy.poetry.foot.TafilaType attribute*), 18
test_name () (*aruudy.poetry.meter.Bahr method*), 11
text (*aruudy.poetry.meter.Part attribute*), 12
to_dict () (*aruudy.poetry.meter.Bahr method*), 11
to_dict () (*aruudy.poetry.meter.Part method*), 13
to_dict () (*aruudy.poetry.prosody.Shatr method*), 6
type (*aruudy.poetry.foot.TafilaComp attribute*), 16

U

used_scansion (*aruudy.poetry.meter.Bahr attribute*),
10

V

validate () (*aruudy.poetry.meter.Bahr method*), 11
validate () (*aruudy.poetry.meter.BahrForm method*),
12

W

WAQS (*aruudy.poetry.foot.TafilaType attribute*), 18
WSWSWSW (*class in aruudy.poetry.foot*), 18
WSWSWWS (*class in aruudy.poetry.foot*), 18
WSWWS (*class in aruudy.poetry.foot*), 18
WSWWWSWS (*class in aruudy.poetry.foot*), 19
WWWSWS (*class in aruudy.poetry.foot*), 19
WWWSWSWS (*class in aruudy.poetry.foot*), 19
WWSWWWWS (*class in aruudy.poetry.foot*), 19
WWWSWWS (*class in aruudy.poetry.foot*), 19

Z

Zuhafilla (*class in aruudy.poetry.foot*), 19