

API for developers

ARASAAC API

1.0.0 OAS3

https://api.arasaac.org/arasaac_v1.json

REST API for ARASAAC pictograms and related data.

Servers

<https://api.arasaac.org/v1>[Authorize](#)

users User APIs



GET /users/profile



Obtain user profile

Parameters

[Try it out](#)

No parameters

Responses

Code	Description	Links
200	User data like username, email, lists of favorites pictograms and materials.	No links
	application/json Controls Accept header.	

Code	Description	Links
------	-------------	-------

Example Value: Model

```
{
  "email": "string",
  "name": "string",
  "username": "string",
  "lastlogin": "string",
  "locale": "an",
  "role": "admin",
  "materials": {},
  "pictos": {},
  "provider": {}
}
```

default

Unexpected error

application/json

*No
links***Example Value: Model**

```
{
  "message": "string",
  "err": "string"
}
```

keywords

List of words (or phrases) to define ARASAAC pictograms. Used in ARASAAC website for autocompletion searchbox. See <https://arasaac.org/pictograms/search>.

**GET** **/keywords/{language}**

Obtain a list of keywords for pictograms for an specific language (es, en...)

Parameters

Try it out

Name	Description
------	-------------

language * required string (path)	Languages than we currently use for pictograms searches. <i>Available values</i> : an, ar, bg, br, ca, cs, da, de, el, en, es, et, eu, fa, fr, gl, he, hr, hu, it, ko, lt, lv, mk, nb, nl, pl, pt, ro, ru, sk, sq, sv, sr, tr, val, uk, zh
--	---

Responses

Code	Description	Links
200	<p>An object with the list of keywords for the specified language.</p> <div>application/json</div> <p>Controls Accept header.</p> <p>Example Value Model</p> <pre>{ "locale": "an", "words": ["string"] }</pre>	No links
500	<p>Error</p> <div>application/json</div> <p>Example Value Model</p> <pre>{ "message": "string", "err": "string" }</pre>	No links

pictograms ARASAAC pictograms



GET /pictograms/all/{language}

Obtain all pictograms data. The pictogram image url is composed based on the id field and the required resolution (300px, 500px or 2500px). For example, for pictogram with id 2350 and resolution 2500px would be https://static.arasaac.org/pictograms/2340/2340_2500.png

Parameters[Try it out](#)**Name****Description****language** * **required**string
(*path*)

Languages than we currently use for pictograms searches.

Available values : an, ar, bg, br, ca, cs, da, de, el, en, es, et, eu, fa, fr, gl, he, hr, hu, it, ko, lt, lv, mk, nb, nl, pl, pt, ro, ru, sk, sq, sv, sr, tr, val, uk, zh**Responses****Code****Description****Links**

200

Success

No links

500

Error generating pictograms data

No links[application/json](#)**Example Value** Model

```
{
  "message": "string",
  "err": "string"
}
```

GET**[/pictograms/{idPictogram}](#)**

Obtain pictogram image file in png format based on its key. Pictogram can be customized with color, resolution, plural...

Parameters[Try it out](#)

Name	Description
idPictogram * required	Pictogram identifier
integer (path)	
plural boolean (query)	Pictogram in singular or with plural symbol. It should only be applied to pictograms that represent a noun.
color boolean (query)	Pictogram in color (default value) or in black and white.
backgroundColor string (query)	Hexadecimal value to set the background color of the pictogram. The pictograms are transparent by default (value 'none').
action string (query)	Add an extra symbol for indicating a past or future status. It should only be applied to pictograms that represent an action or a verb. <i>Available values</i> : future, past
resolution integer (query)	Pictogram resolution. 500px by default. <i>Available values</i> : 500, 2500
skin string (query)	Usefull for pictograms with people. Customize its skin <i>Available values</i> : white, black, assian, mulatto, aztec
hair string (query)	Usefull for pictograms with people. Customize its hair. <i>Available values</i> : blonde, brown, darkBrown, gray, darkGray, red, black
url boolean (query)	Get pictogram url or binary data (default value)
download boolean (query)	Defines if the pictogram response will be render in the browser or saved as a file (sets header Content Disposition as attachment). Only applies if url parameter is binary data. <i>Default value</i> : false
identifier string (query)	Classify the type of pictogram <i>Available values</i> : classroom, health, library, office

Name	Description
identifierPosition string (<i>query</i>)	Identity position. Only applies if an identifier has been provided. <i>Available values</i> : left, right

Responses

Code	Description	Links
200	<p>Pictogram image file in PNG formats</p> <div>application/octet-stream</div> <p>Controls Accept header.</p> <p>Example Value: Model</p> <p>string</p>	No links
500	<p>Error generating PNG file</p> <div>application/json</div> <p>Example Value: Model</p> <pre>{ "message": "string", "err": "string" }</pre>	No links

GET `/pictograms/{language}/{idPictogram}`

Obtain pictogram data based on its key (idPictogram). The pictogram image url can be generated based on pictogram key value and the desired resolution (300px, 500px or 2500px). For example https://static.arasaac.org/pictograms/2340/2340_2500.png for pictogram with key 2350 and resolution 2500px.

Parameters

Try it out

Name	Description
language * required string (<i>path</i>)	Languages than we currently use for pictograms searches. <i>Available values</i> : an, ar, bg, br, ca, cs, da, de, el, en, es, et, eu, fa, fr, gl, he, hr, hu, it, ko, lt, lv, mk, nb, nl, pl, pt, ro, ru, sk, sq, sv, sr, tr, val, uk, zh
idPictogram * required integer (<i>path</i>)	Pictogram identifier

Responses

Code	Description	Links
200	Success	<i>No links</i>
500	Error generating pictograms data	<i>No links</i>

application/json

Example Value: Model

```
{
  "message": "string",
  "err": "string"
}
```

GET `/pictograms/{idPictogram}/languages/{languages}`

Obtain pictogram data based on its key (idPictogram) for several languages. The pictogram image url can be generated based on pictogram key value and the desired resolution (300px, 500px or 2500px). For example https://static.arasaac.org/pictograms/2340/2340_2500.png for pictogram with key 2350 and resolution 2500px.

Parameters [Try it out](#)

Name	Description
------	-------------

Name	Description
------	-------------

idPictogram * required	Pictogram identifier
integer	
(path)	

languages * required	Languages than we currently use for pictograms searches.
array[string]	Available values : an, ar, bg, br, ca, cs, da, de, el, en, es, et, eu, fa, fr, gl, he, hr, hu, it, ko, lt, lv, mk, nb, nl, pl, pt, ro, ru, sk, sq, sv, sr, tr, val, uk, zh
(path)	

Responses

Code	Description	Links
200	Success	No links
500	Error generating pictograms data	No links

application/json

Example Value: Model

```
{
  "message": "string",
  "err": "string"
}
```

GET /pictograms/{language}/search/{searchText}

Obtain a list of pictograms based on the searchText. The pictogram url can be generated based on pictogram id value and the desired resolution (300px, 500px or 2500px). There are some variations available for each pictogram using filename parameters (see below). You can see them in use and some more (available using API endpoint *GET /pictograms/{idPictogram}*) at <https://arasaac.org/pictograms/en/2349>

Filename parameters

action for verbal tense (*past*, *future*)

hair for hair color (brown *A65E26*, blonde *FDD700*, red *ED4120*, black *020100*, gray *EFEFEF*, darkGray *AAABAB*, darkBrown *6A2703*)

skin for skin color (white *F5E5DE*, black *A65C17*, assian *F4ECAD*, mulatto *E3AB72*, aztec *CF9D7C*)

plural

nocolor

Examples

https://static.arasaac.org/pictograms/2349/2349_2500.png

https://static.arasaac.org/pictograms/2349/2349_action-past_300.png

https://static.arasaac.org/pictograms/2349/2349_nocolor_action-past_500.png

https://static.arasaac.org/pictograms/2349/2349_plural_nocolor_500.png

https://static.arasaac.org/pictograms/2349/2349_action-past_hair-FDD700_500.png

https://static.arasaac.org/pictograms/2349/2349_action-future_hair-020100_skin-A65C17_500.png

Parameters

Try it out

Name	Description
language * required string (<i>path</i>)	Languages than we currently use for pictograms searches. <i>Available values</i> : an, ar, bg, br, ca, cs, da, de, el, en, es, et, eu, fa, fr, gl, he, hr, hu, it, ko, lt, lv, mk, nb, nl, pl, pt, ro, ru, sk, sq, sv, sr, tr, val, uk, zh
searchText * required string (<i>path</i>)	Keywords for searches. By default, it makes an OR search on all the specified keywords. In case you would like to perform an exact phrase search (logical AND), you can do so by specifying double quotes in the search text. Prefixing a search keyword with – (minus sign) excludes all the documents that contain the negated term.

Responses

Code	Description	Links
200	Success <div>application/json</div> Controls Accept header. Example Value Model <pre>[{ "_id": 0, "keywords": [{ "idKeyword": 0, "keyword": "string", "plural": "string", "idLocution": "string",</pre>	<i>No links</i>

Code	Description	Links
------	-------------	-------

	<pre> "meaning": "string", "type": 0, "lse": 0 }], "schematic": true, "sex": true, "violence": true, "created": "2025-03-06T09:12:36.777Z", "lastUpdated": "2025-03-06T09:12:36.777Z", "downloads": 0, "categories": ["string"], "synsets": ["string"], "tags": ["string"], "desc": "string" }]</pre>	
--	--	--

500

Error

No links

application/json

Example Value Model

```
{
  "message": "string",
  "err": "string"
}
```

GET **/pictograms/{language}/bestsearch/{searchText}**

Obtain best pictograms based on the searchText. The pictogram url can be generated based on pictogram id value and the desired resolution (300px, 500px or 2500px). There are some variations available for each pictogram using filename parameters (see below). You can see them in use and some more (available using API endpoint *GET /pictograms/{idPictogram}*) at <https://arasaac.org/pictograms/en/2349>

Filename parameters*action* for verbal tense (*past, future*)*hair* for hair color (brown *A65E26*, blonde *FDD700*, red *ED4120*, black *020100*, gray *EFEFEF*, darkGray *AAABAB*, darkBrown *6A2703*)*skin* for skin color (white *F5E5DE*, black *A65C17*, assian *F4ECAD*, mulatto *E3AB72*, aztec *CF9D7C*)

plural
nocolor

Examples

https://static.arasaac.org/pictograms/2349/2349_2500.png
https://static.arasaac.org/pictograms/2349/2349_action-past_300.png
https://static.arasaac.org/pictograms/2349/2349_nocolor_action-past_500.png
https://static.arasaac.org/pictograms/2349/2349_plural_nocolor_500.png
https://static.arasaac.org/pictograms/2349/2349_action-past_hair-FDD700_500.png
https://static.arasaac.org/pictograms/2349/2349_action-future_hair-020100_skin-A65C17_500.png

Parameters

[Try it out](#)

Name	Description
language * required string (<i>path</i>)	Languages than we currently use for pictograms searches. <i>Available values</i> : an, ar, bg, br, ca, cs, da, de, el, en, es, et, eu, fa, fr, gl, he, hr, hu, it, ko, lt, lv, mk, nb, nl, pl, pt, ro, ru, sk, sq, sv, sr, tr, val, uk, zh
searchText * required string (<i>path</i>)	Keywords for searches. By default, it makes an OR search on all the specified keywords. In case you would like to perform an exact phrase search (logical AND), you can do so by specifying double quotes in the search text. Prefixing a search keyword with – (minus sign) excludes all the documents that contain the negated term.

Responses

Code	Description	Links
200	Success <div><code>application/json</code></div> <div>Controls Accept header.</div> <div>Example Value: Model</div> <pre>[{ "_id": 0, "keywords": [{ "idKeyword": 0, "keyword": "string", "plural": "string",</pre>	<i>No links</i>

Code	Description	Links
------	-------------	-------

```
        "idLocution": "string",
        "meaning": "string",
        "type": 0,
        "lse": 0
      }
    ],
    "schematic": true,
    "sex": true,
    "violence": true,
    "created": "2025-03-06T09:12:36.801Z",
    "lastUpdated": "2025-03-06T09:12:36.801Z",
    "downloads": 0,
    "categories": [
      "string"
    ],
    "synsets": [
      "string"
    ],
    "tags": [
      "string"
    ],
    "desc": "string"
  }
]
```

500

Error

No links

application/json

Example Value Model

```
{
  "message": "string",
  "err": "string"
}
```

GET **/pictograms/{language}/wordnet/{wordnet}/id/{synset}**

Obtain a list of pictograms based on the Wordnet identifier (synset). Wordnet version must be provided.

Parameters

Try it out

Name	Description
------	-------------

Name	Description
language * required	Languages than we currently use for pictograms searches.
string (<i>path</i>)	<i>Available values</i> : an, ar, bg, br, ca, cs, da, de, el, en, es, et, eu, fa, fr, gl, he, hr, hu, it, ko, lt, lv, mk, nb, nl, pl, pt, ro, ru, sk, sq, sv, sr, tr, val, uk, zh
wordnet * required	Wordnet version.
string (<i>path</i>)	<i>Available values</i> : 1.5, 1.6, 1.7, 1.7.1, 2.0, 2.1, 3.0, 3.1
synset * required	Wordnet identifier (synset).
string (<i>path</i>)	

Responses

Code	Description	Links
200	<p>Success</p> <div>application/json</div> <p>Controls Accept header.</p> <p>Example Value: Model</p> <pre>[{ "_id": 0, "keywords": [{ "idKeyword": 0, "keyword": "string", "plural": "string", "idLocution": "string", "meaning": "string", "type": 0, "lse": 0 }], "schematic": true, "sex": true, "violence": true, "created": "2025-03-06T09:12:36.830Z", "lastUpdated": "2025-03-06T09:12:36.830Z", "downloads": 0, "categories": [</pre>	<i>No links</i>

Code	Description	Links
------	-------------	-------

```
        "string"
      ],
      "synsets": [
        "string"
      ],
      "tags": [
        "string"
      ],
      "desc": "string"
    }
  ]
}
```

500

Error

No links

application/json

Example Value Model

```
{
  "message": "string",
  "err": "string"
}
```

GET **/pictograms/{language}/days/{days}**

Obtain pictograms created or updated in the last days.

Parameters

Try it out

Name	Description
------	-------------

language * required	Languages than we currently use for pictograms searches.
string (path)	Available values : an, ar, bg, br, ca, cs, da, de, el, en, es, et, eu, fa, fr, gl, he, hr, hu, it, ko, lt, lv, mk, nb, nl, pl, pt, ro, ru, sk, sq, sv, sr, tr, val, uk, zh
days * required	Material identifier
integer (path)	Default value : 30

Responses

Code	Description	Links
200	<div>Success</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value: Model</div> <div>[{ "_id": 0, "keywords": [{ "idKeyword": 0, "keyword": "string", "plural": "string", "idLocution": "string", "meaning": "string", "type": 0, "lse": 0 }], "schematic": true, "sex": true, "violence": true, "created": "2025-03-06T09:12:36.849Z", "lastUpdated": "2025-03-06T09:12:36.849Z", "downloads": 0, "categories": ["string"], "synsets": ["string"], "tags": ["string"], "desc": "string" }]</div>	No links
default	<div>Error</div> <div>application/json</div> <div>Example Value: Model</div> <div>{</div>	No links

Code

Description

Links

```
"message": "string",
"err": "string"
}
```

GET

[/pictograms/{language}/new/{numItems}](#)

Obtain last modified or publish pictograms.

Parameters

[Try it out](#)

Name

Description

language * required

string

(path)

Languages than we currently use for pictograms searches.

Available values : an, ar, bg, br, ca, cs, da, de, el, en, es, et, eu, fa, fr, gl, he, hr, hu, it, ko, lt, lv, mk, nb, nl, pl, pt, ro, ru, sk, sq, sv, sr, tr, val, uk, zh

numItems * required

integer

(path)

Number of items

Responses

Code

Description

Links

200

Success

No links[application/json](#)

Controls Accept header.

Example Value: Model

```
[
  {
    "_id": 0,
    "keywords": [
      {
        "idKeyword": 0,
        "keyword": "string",
        "plural": "string",

```


Code	Description	Links
------	-------------	-------

	<pre>"idLocution": "string", "meaning": "string", "type": 0, "lse": 0 }], "schematic": true, "sex": true, "violence": true, "created": "2025-03-06T09:12:36.863Z", "lastUpdated": "2025-03-06T09:12:36.863Z", "downloads": 0, "categories": ["string"], "synsets": ["string"], "tags": ["string"], "desc": "string" }]</pre>	
--	--	--

default

No links

Error

application/json

Example Value Model

```
{
  "message": "string",
  "err": "string"
}
```

materials

Documents related to ARASAAC usage, uploaded by ARASAAC users



GET **/materials/{id}**

Obtain a material based on its key.

Parameters

Try it out

Name	Description
------	-------------

id * required integer (path)	The material id
---	-----------------

Responses

Code	Description	Links
------	-------------	-------

200		No links
-----	--	----------

Success

application/json

Controls Accept header.

Example Value: Model

```
{
  "material": {}
}
```

default		No links
---------	--	----------

Error

application/json

Example Value: Model

```
{
  "message": "string",
  "err": "string"
}
```

GET **/materials/days/{days}**

Obtain materials published in the last number of days.

Parameters [Try it out](#)

Name	Description
days ✱ required integer (<i>path</i>)	Date range for materials published from the current date backwards. Minimum 0 days, maximum 50 days. <i>Default value</i> : 30

Responses

Code	Description	Links
200	<p>Success</p> <div>application/json</div> <p>Controls Accept header.</p> <p>Example Value Model</p> <pre>[{ "_id": "string", "activity": [0], "area": [0], "authors": [{}], "created": "2025-03-06T09:12:36.888Z", "desc": "string", "downloads": 0, "file": {}, "files": {}, "id": 0, "screenshots": {}, "lang": "string", "language": "string", "lastUpdate": "2025-03-06T09:12:36.888Z", "score": 0, "status": 0, "title": "string", "translations": [{}] }]</pre>	<i>No links</i>

Code	Description	Links
default	Error	<i>No links</i>

`application/json`

Example Value [Model](#)

```
{
  "message": "string",
  "err": "string"
}
```

GET `/materials/new/{numItems}`

Obtain last modified or published materials.

Parameters [Try it out](#)

Name	Description
numItems * required integer (<i>path</i>)	Total number of materials requested. Minimum 1, maximum 100. <i>Default value</i> : 30

Responses

Code	Description	Links
200	Success	<i>No links</i>

`application/json`

Controls Accept header.

Example Value [Model](#)

```
[
  {
    "_id": "string",
```

Code	Description	Links
------	-------------	-------

```
"activity": [
  0
],
"area": [
  0
],
"authors": [
  {}
],
"created": "2025-03-06T09:12:36.899Z",
"desc": "string",
"downloads": 0,
"file": {},
"files": {},
"id": 0,
"screenshots": {},
"lang": "string",
"language": "string",
"lastUpdate": "2025-03-06T09:12:36.899Z",
"score": 0,
"status": 0,
"title": "string",
"translations": [
  {}
]
}
]
```

default

No links

Error

application/json

Example Value Model

```
{
  "message": "string",
  "err": "string"
}
```

GET **/materials/{language}/{searchText}**

Obtain a list of materials based on the search text parameter. It will search in the title and description fields. Language is used for search optimization.

Parameters **Try it out**

Name	Description
language * required string (<i>path</i>)	Languages than we currently use for pictograms searches. <i>Available values</i> : an, ar, bg, br, ca, cs, da, de, el, en, es, et, eu, fa, fr, gl, he, hr, hu, it, ko, lt, lv, mk, nb, nl, pl, pt, ro, ru, sk, sq, sv, sr, tr, val, uk, zh
searchText * required string (<i>path</i>)	Keywords for searches. By default, it makes an OR search on all the specified keywords. In case you would like to perform an exact phrase search (logical AND), you can do so by specifying double quotes in the search text. Prefixing a search keyword with – (minus sign) excludes all the documents that contain the negated term.

Responses

Code	Description	Links
200	<p>Success</p> <div>application/json</div> <p>Controls Accept header.</p> <p>Example Value Model</p> <pre>[{ "_id": "string", "activity": [0], "area": [0], "authors": [{}], "created": "2025-03-06T09:12:37.289Z", "desc": "string", "downloads": 0, "file": {}, "files": {}, "id": 0, "screenshots": {}, "lang": "string", "language": "string", "lastUpdate": "2025-03-06T09:12:37.289Z", "score": 0, "status": 0, }]</pre>	<i>No links</i>

Code	Description	Links
	<pre>"title": "string", "translations": [{}] }</pre>	
default	Error	No links
	<div>application/json</div>	
	Example Value Model	
	<pre>{ "message": "string", "err": "string" }</pre>	

phrases Natural language analysis about user searches or selections

GET **/phrases/flex/{language}/{phrase}**

Get a phase in natural language based on pictogram keywords. It tries to convert sentences like *I + to eat + hamburger + yesterday* to *I ate a hamburger yesterday*

Parameters

Cancel

Name	Description
language * required string (path)	Languages than we currently support for natural language analysis. <div>es</div>
phrase * required string (path)	Phrase to convert to natural language. <div>phrase - Phrase to convert to natural language</div>
tense string (query)	Force the verb tense for natural language. <div>--</div>

Name

Description

idPictograms
array[integer]
(query)

List of pictograms by id used in one sentence.

Add item

Execute

Responses

Code

Description

Links

200

Success

No links

application/json

Controls Accept header.

Example Value: Model

```
{
  "msg": "string"
}
```

500

Error

No links

application/json

Example Value: Model

```
{
  "message": "string",
  "err": "string"
}
```

POST

/phrases/report

Models



Locales`string`

Enum:

Array [38]

ErrorResponse {`message*` `string``err` `string`

}

KeywordsResponse {`locale` `Localesstring`

Enum:

Array [38]

`words` [...]

}

PhraseResponse {`msg` `string`

}

UserProfileResponse {`email` `string``name` `string``username` `string``lastlogin` `string``locale` `Localesstring`

Enum:

Array [38]

`role` `string`

Enum:

Array [3]

`materials` {...}`pictos` {...}`provider` {...}

```
}
```

```
Material {  
  _id      string  
  activity  [...]   
  area      [...]   
  authors*  [...]   
  created   string($date-time)  
  desc*     string  
  downloads number  
  file      {...}   
  files*    {...}   
  id        integer  
  screenshots [...]   
  lang      string  
  language  string  
  lastUpdate string($date-time)  
  score     number  
  status    integer  
  title*    string  
  translations [...]   
}
```

```
Materials [ Materials {  
  _id      string  
  activity  [...]   
  area      [...]   
  authors*  [...]   
  created   string($date-time)  
  desc*     string  
  downloads number  
  file      {...}   
  files*    {...}   
  id        integer  
  screenshots [...]   
  lang      string  
  language  string  
  lastUpdate string($date-time)  
  score     number  
  status    integer  
  title*    string  
  translations [...]   
}
```

```
}]
```

```
GetMaterialResponse {  
  material      {...}  
}
```

```
Keyword {  
  idKeyword      integer  
  keyword        string  
  plural         string  
  idLocution    string  
  meaning        string  
  type           integer  
  lse            integer  
}
```

```
Pictogram {  
  _id            integer  
  keywords       [...]  
  schematic      boolean  
  sex            boolean  
  violence       boolean  
  created        string($date-time)  
  lastUpdated    string($date-time)  
  downloads      integer  
  categories     [...]  
  synsets        [...]  
  tags           [...]  
  desc           string  
}
```

```
Pictograms [ Pictograms {  
  _id            integer  
  keywords       [...]  
  schematic      boolean  
  sex            boolean  
  violence       boolean
```

```
created      string($date-time)
lastUpdated  string($date-time)
downloads    integer
categories   [...]
synsets      [...]
tags         [...]
desc         string
}]
```

© ARASAAC - Gobierno
de Aragón, 2025

[Terms of Use](#)

[Cookies Policy - Privacy
Policy](#)

