# Affinitomics API methods

### **Sample Code**

Example code utilizing the Affinitomics API can be found at these locations:

https://github.com/Affinitomics/affinitomics\_js\_lib

https://github.com/Affinitomics/affinitomics dungeon example

### **General Arguments**

All api calls will need to be provided the following arguments for your request, in addition to arguments necessary for a specific api method:

user\_key(required) the api key provided by Prefrent

**ctype**(required) the type of client making the request

**cversion**(required) the version of the client making the request

**nonce**(required) a unique, random string between 8-64 characters in

length.

All api calls will return the following response variables for your request, in addition to response variables for a specific api method:

status Indicates the result of the api call. Can be 'success'

or 'error'

**errors** a list containing error codes and matching error

messages

#### **Available Methods**

### RequestDomains

Returns a list of domains associated with the user key

#### **Arguments**

This method does not require any additional arguments

Response variables (dictionary)

domains

list of domain ids associated with the user\_key.

Domains can be any unique string and are not just limited to URLs

#### Example Response

### RequestArchetypes

Returns a list of archetypes associated with the user key

### Arguments

This method does not require any additional arguments

Response variables (dictionary)

archetypes

list of archetype ids that are associated with the given user\_key

### RequestArchetypesByDomain

Returns a list of archetypes associated with the user key and the given domain

### Arguments

**domain** the domain id from which to the archetypes belong

Response variables (dictionary)

**archetypes** list of archetype ids that are associated with the

given user\_key

**domain** the domain id from which to the archetypes belong

```
{
    "archetypes":
    [
        "http://subuPref.com/infinity/a-chevy-wagon/",
        "http://subuPref.com/infinity/2015/09/07/crazy-hippos/",
        "viper",
        "http://subuPref.com/infinity/snakes-on-a-plate/",
        "motorcycle",
        "http://subuPref.com/infinity/2015/09/04/vipers-are-awesome/",
        "http://subuPref.com/infinity/activity/viper-page/",
        "http://subuPref.com/infinity/2015/05/24/satellite-wagon/",
        "horse",
        "cuda",
        "bike"
        ],
        "domain":"subuPref.com",
        "status":"success",
        "errors":[]
```

}

### **SyncArchetype**

Syncs an archetype to the Affinitomics server. If the archetype does not yet exist, the server will create an archetype with the given id. If the domain does not yet exist for the given user\_key, it will also be created. Note that although the arguments *descriptors*, *draws*, *and distances* are all optional, at least one of the arguments must be given in order for the archetype to be able to be matched against other archetypes.

#### Arguments

**domain** the domain id to which this archetype does/will

belong. If the domain does not yet exist, it will be created. Domains can be any unique string and are

not just limited to URLs

**archetype\_id** id of the archetype to use to sync data. If the id does

not yet exist, it will be created

**sets** (optional) list of set ids that the given archetype\_id is a member

of

**descriptors** (optional) array of descriptors for the archetype. A cars

archetype might include the descriptors "cars,

automobiles"

**draws** (optional) an array of dictionaries that each contain a draw term

and magnitude for the archetype.

**term**, a draw to be added to the archetype. A

cars archetype might include the draw

"horsepower"

magnitude, a number from 1-5 that is the magnitude of the draw, with 1 being a low draw and 5 being the highest. The higher the draw, the more likely that this archetype will match archetypes that have this draw term in

their descriptors

**distances** (optional) an array of dictionaries that each contain a distance

term and magnitude for the archetype.

**term**, a distance to be added to the archetype. A cars archetype might include the distance "boat"

magnitude, a number from 1-5 that is the magnitude of the distance, with 1 being a low distance and 5 being the highest. The higher the distance, the more likely that this archetype will not match archetypes that have this distance term in their descriptors

title (optional) a title to be given to the archetype, if desired

Response variables (dictionary)

archetype\_idarchetype id that was synced/createddomainthe domain used/created in the request

#### Example Response

```
{
    "domain":"subuPref.com",
    "archetype_id":"bike",
    "status":"success",
    "errors":[]
}
```

### RemoveArchetype

Completely removes an archetype from the domain and any association with the user\_key

### Arguments

**domain** the domain id from which to the archetypes belong

archetype\_id
id of the archetype to be deleted

Response variables (dictionary)

archetype\_idarchetype id used in the requestdomainthe domain used in the request

#### Example Response

```
{
    "domain":"subuPref.com",
    "archetype_id":"bike",
    "status":"success",
    "errors":[]
}
```

### RequestRelatedArchetypes

Finds and returns matching archetypes in the given domain to the given archetype id.

#### Arguments

**domain** the domain id from which to request the related

archetypes

**archetype\_id** id of the archetype to use to find related archetypes

#### Response variables (dictionary)

archetype\_id archetype id used in the request to find related

archetypes

**domain** the domain used in the request

**best\_matches** a list of dicionaries containing the related results.

Each dictionary will have:

**score**, a value indicating the strength of the match. The higher the number, the greater the match, with the highest score being 100

archetype\_id, the id of the matching

archetype

```
{
    "matches":
    [
        {
             "score":100,
            "archetype_id":"bike"
        },
        {
```

### RequestArchetypeInfo

Returns all info related to the given archetype id in the domain

#### Arguments

**domain** the domain id from which to request the archetype

info

**archetype\_id** the id of the archetype for the requested info

Response variables (dictionary)

archetype\_idarchetype id for which the info was requesteddomainthe domain of the requested archetype infoarchetype\_dataa dictionary of info related to the archetype

### RankAgainstArchetypes

Matches a list of given archetypes in the given domain to the given archetype id.

### Arguments

**domain** the domain id from which to request the related

archetypes

archetype\_id
id of the archetype to use to find related archetypes

rank\_archetpye\_ids an array of archetype ids, for specific pre-existing

archetypes, to be used to rank against the given

archetype\_id

Response variables (dictionary)

archetype\_id archetype id used in the request to find related

archetypes

**domain** the domain used in the request

best matches

a list of dicionaries containing the related results. Each dictionary will have:

**score**, a value indicating the strength of the match. The higher the number, the greater the match, with the highest score being 100

archetype\_id, the id of the matching
archetype

#### Example Response

### AddSetToDomain

Adds a set to the given domain. The set id will be unique within the domain.

### Arguments

**domain** the domain id to which the set will be added

set\_id the set id to be added to the domain. Set will be

created, and added to the domain, if it does not

already exist

Response variables (dictionary)

**domain** the domain id to which the set was added

set\_id the set id that was added/created in the request

### RemoveArchetypeFromSet

Removes an archetype from a given set in the domain.

#### Arguments

**domain** the domain id from which the set and archetype

belongs

**set\_id** the set id to remove the archetype from.

archetype\_id the id of the archetype to remove from the given set

#### Response variables (dictionary)

**domain** the domain used in the request

**set\_id** the set id that the archetype was removed from

**archetype\_id** the id of the archetype removed from the set

### AddArchetypeToSet

Adds an archetype to a given set in the domain. If the set id does not already exist, it will be created.

### Arguments

**domain** the domain id from which the set belongs

**set\_id** the set id to add the archetype to. Set will be created,

and added to the domain, if it does not already exist

archetype\_id the id of the archetype to add to the given set

### Response variables (dictionary)

**domain** the domain used in the request

set\_id the set id that the archetype was added to

**archetype\_id** the id of the archetype added to the set

### GetArchetypesInSet

Returns a list of archetypes that are in a given set in the domain.

Arguments

**domain** the domain id from which the set belongs

**set\_id** the set id from which to retrieve archetype ids

Response variables (dictionary)

**domain** the domain used in the request

**set\_id** the set id that contains the archetype ids

**archetypes** a list of archetype ids that are in the given set

#### RemoveSetFromDomain

Removes a set from the given domain.

Arguments

**domain** the domain id from which the set belongs

set\_id the set id to be removed from the domain

Response variables (dictionary)

domain the domain used in the request

set\_id the set id that was removed in the request

### RelateArchetypeWithSet

Finds and returns matching archetypes to the given archetype id in the given set in the domain.

#### Arguments

**domain** the domain id from which the archetype belongs

**set\_id** the set id to find related archetypes to the given

archetype\_id

archetype\_id id of the archetype to be related to the set

#### Response variables (dictionary)

**domain** the domain used in the request

**set\_id** the set id that contains the archetype ids

archetype\_id archetype id used in the request to find related

archetypes in the set

**best\_matches** a list of dicionaries containing the related results.

Each dictionary will have:

**score**, a value indicating the strength of the match. The higher the number, the greater the match, with the highest score being 100

archetype\_id, the id of the matching

archetype

## **Errors List**

Error Code	Error Message
121	Over the monthly transaction limit for this plan. Upgrade your plan to continue
160	Warning: you are over the archetype limit for this plan. Please upgrade your plan
161	Over the archetype limit for this plan. Upgrade your plan to continue
202	api key is not valid
252	invalid domain
262	archetype does not exist
302	required parameter is not present: {missing parameter}
432	archetype invalid
819	unable to delete archetype
869	unable to create the set
981	Invalid nonce length
999	Invalid repeated request