



Agreement/Disagreement classification module

v1.0

User Guide

## Introduction

The agreement/disagreement system is designed for predicting agreement or disagreement relationships from posts in social media. This system is trained with social media data from an Italian news blog, but it makes use of language independent variables, so it can be used for predicting agreement and disagreement in other languages and also in social media like Facebook.

## How does it work?

The code requires perl v5.10 or above. The code can be started from command line with the following syntax:

```
perl agreedisagree1.pl path/to/file/example-input.json
```

The input file is a json containing the following information

```
{
  "code": 200,
  "result": {
    "annotations": {
      "USFD_GATE_NLP": [],
      "USFD_GATE_entities": [],
      "USFD_GATE_events": [],
      "USFD_GATE_opinions": []
    },
    "content": "990 lascio al metronotte l'onore di arrivare a 1000\n",
    "features": {
      "USFD_GATE_events+opinions_count": {
        "Address": 0,
        "Date": 0,
        "Event": 0,
        "Identifier": 0,
        "Location": 0,
        "Money": 0,
        "NP": 0,
        "Organization": 0,
        "Percent": 0,
        "Person": 0,
        "Sentence": 0,
        "SentenceSentiment": 0,
        "Token": 0,
        "VG": 0
      },
      "USFD_GATE_events+opinions_processed": true,
      "USFD_GATE_lang": "it",
      "websays_apiObjectID": "li-comment-347547",
      "websays_author": "bobobo123",
      "websays_authorType": "anonymous",
      "websays_date": "2014-05-21T10:36:00+02:00",
      "websays_domain": "zucconi.blogautore.repubblica.it",
      "websays_embeddedMediaType": "UNKNOWN",
      "websays_externalID": "821867937",
      "websays_indexingTimestamp": "2014-07-10T17:28:11.215+02:00",
      "websays_isBestComment": false,
      "websays_langDetected": "italian",
      "websays_mood": "UNKNOWN",
      "websays_numOfComments": "0",
      "websays_postID": "-1573695198",
      "websays_sourceID": "http://zucconi.blogautore.repubblica.it/2014/04/16/il-donno-barbuto/",
      "websays_sourceType": "blog",
      "websays_superType": "blog",
      "websays_textHTML": "990 lascio al metronotte l'onore di arrivare a 1000\n",
      "websays_title": "Il donno barbuto : Comment.",
      "websays_type": "comment",
      "websays_versionID": "1",
      "websays_websaysPolarity": "-1",
      "provenance": "WebsaysXML"
    },
    "id": 26340415489481186113846088646,
    "name": "Il donno barbuto : Comment."
  },
  "success": true
}
```

The following fields are mandatory:

- content: the text of the post
- websays\_author: the author of the post
- websays\_postID: is the identifier of the post
- websays\_externalID: is the identifier of the parent post in the thread
- websays\_langdetected: the language of the post
- id: the name of the file
- name: the title of the thread with information about the fact that the post is a comment (reply to other posts) or not

The output is in a json format and reports the following information:

```
{
  "comment": "",
  "lang": "italian",
  "content": "",
  "annotationMap": {
    "agree": [
      {
        "type": "rel",
        "id": 26340415489481186113846088646,
        "score": -0.131,
        "label": "dis"
      },
      {
        "type": "parent",
        "rel_id": 26340415489481186113846088646,
        "post_id": -1573695198,
        "post_auth": ""
      },
      {
        "type": "child",
        "rel_id": 26340415489481186113846088646,
        "post_id": 821867937,
        "post_auth": "bobobo123"
      }
    ]
  }
}
```

The output json file represents a relation between a parent post and a child post (the one that is processed, that is a reply to a parent post). There are 3 types :

- the relation (rel), that has an identifier, the agreement disagreement score and its label (in the example the negative score is associated to a “dis” label that stands for disagree)
- the parent post
- the child post