User Guide
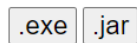
1) Data pre-processing
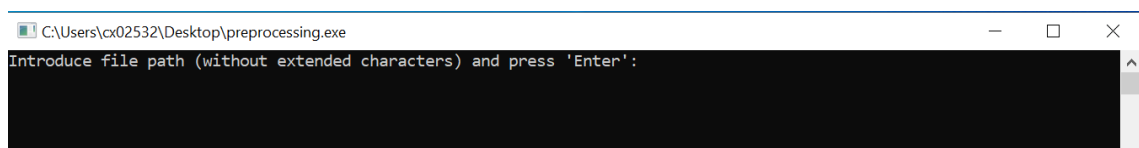
- Download the pre-processing executable by clicking either on the .exe or the .jar option:

- If you have downloaded the .exe option, you only need to open it and a command prompt will appear. Please, enter the original file path (without extended characters) and press 'Enter':
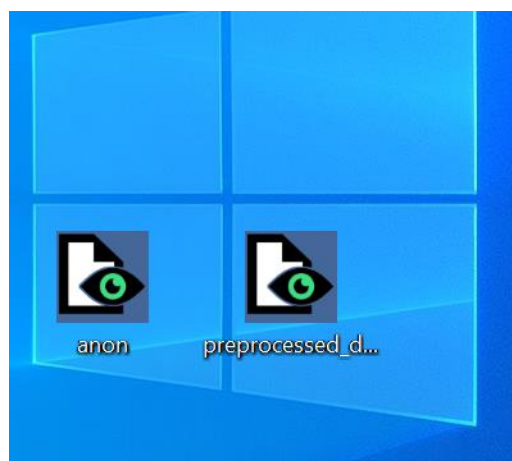

- If you have downloaded the .jar option, you will need to manually open the command window and enter the following command:

  java -jar pre-processing.jar "original file path"

  - The command window directory must be that where the .jar file is stored.
  - If the path contains spacings make sure that you type it into quotation marks ("").

- If the process has been completed successfully the pre-processed file (preprocessed_data.log) will appear in the same directory as the original file (anon.log).

- Windows Defender and other kinds of antimalware programs can cause problems when executing the file. Please, make sure that you have given the required permissions to download and execute it. If these problems still appear, please, disable the antimalware and proceed again to its execution. Another alternative is using the *.jar* option.
- If the command window suddenly disappears without generating the output file, please, repeat the process and make sure that you have written the original file path correctly. Please, mind that it cannot contain ASCII extended characters (https://theasciicode.com.ar/).

Note

- The process can take several minutes depending on the processing capacity of the machine and the original file size.

2) Data submission

- By clicking in the "Choose File" button (1) a File Explorer window will appear. Please, navigate through the directories and select the *pre_processed.log* file.
- Once the file has been selected, please, click the "UPLOAD" button (2).
- If the process has been executed successfully the Status will change to: "You have uploaded file preprocessed_data.log".

Data submission

You need to specify the location of the file with name {preprocessed_data.log}.
(1)   (2)
[Choose File] No file chosen   [UPLOAD]
Status: You have uploaded file preprocessed_data.log

Note

- The process can take several seconds depending on the file size and uploading speed.
- Session time is 20 minutes, so, after this time has passed, the user needs to upload the file again.

3) Skills
a. Define the skills of the course

The user has two options:

- Import skills data: In this case the user needs to paste the JSON structure with the skills definition.

Import

- Add new skill: The second option is adding the skills one by one. In this case, there is a default root skill defined and the user can add the desired skills by typing their name and selecting their parent.
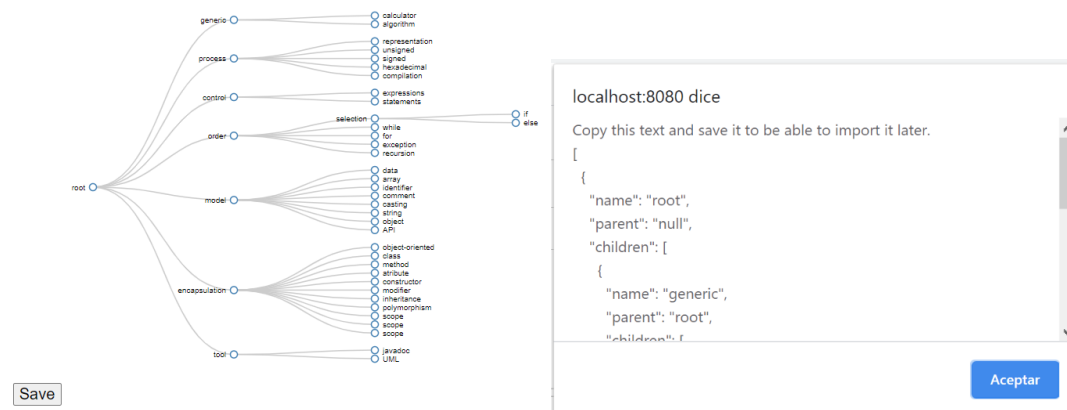
Add new skill

Skill

Parent
root ▼
Add element

- View skills: The skills structure is automatically updated and showed when the user add a new skill (1). He/she can also view the skill data in JSON format in a prompt showed when the user presses the View button (2).

View skills data: View

View current skills structure

localhost:8080 dice

Copy this text and save it to be able to import it later.

```
[
  {
    "name": "root",
    "parent": "null",
    "children": [
      {
        "name": "generic",
        "parent": "root",
        "children": [
```

Aceptar

Save

(1)   (2)

- Is important to **press the 'Save' button** before leaving the page.

Note

- For modifying or deleting a skill it is necessary to change the JSON structure. This is done by exporting the structure (see next subsection), importing it again and changing the desired skill(s).

b. Visualize the current skills of the course

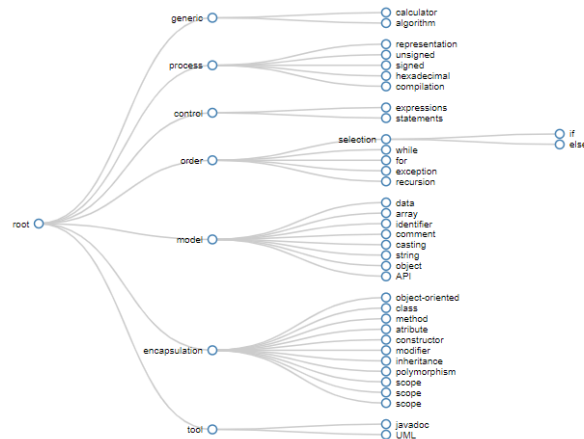- The user can visualize the skills in the same both ways explained above.

- Additionally, the export button downloads a file named "skills_data.json" with the current structure. This file can be modified and uploaded again for modifying the skills.

4) Select what you want to visualize

- **Filter by time period**: By clicking on this input a calendar prompt will appear. There, the user can select the desired date. Another alternative is typewriting it in the format "mm/dd/yyyy".
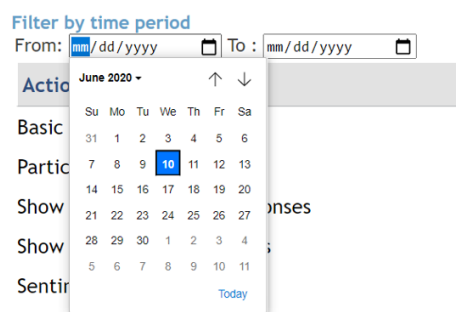
- The user can select the initial date, the final date, both, or none. If the user does not specify any of the dates, the default date(s) will be the corresponding initial and/or final date(s) in the data file.

- By clicking in the graph icon, the desired statistics and outcomes will appear in a new webpage.

Select what you want to visualize

Note: It is necessary to have uploaded a file beforehand to be able to visualize

Filter by time period
From: [mm/dd/yyyy] 📅 To : [mm/dd/yyyy] 📅

Action	View
Basic statistics	📊
Participation data	📊
Show posts with more responses	📊
Show posts with more votes	📊
Sentiment Analysis	📊
Visualize distribution of mentions in the skills	📊

- You can return to the home page clicking in 'Back to index' at the bottom of the page.

a. Basic statistics

- This section shows basic general info about posting activity in the forum:
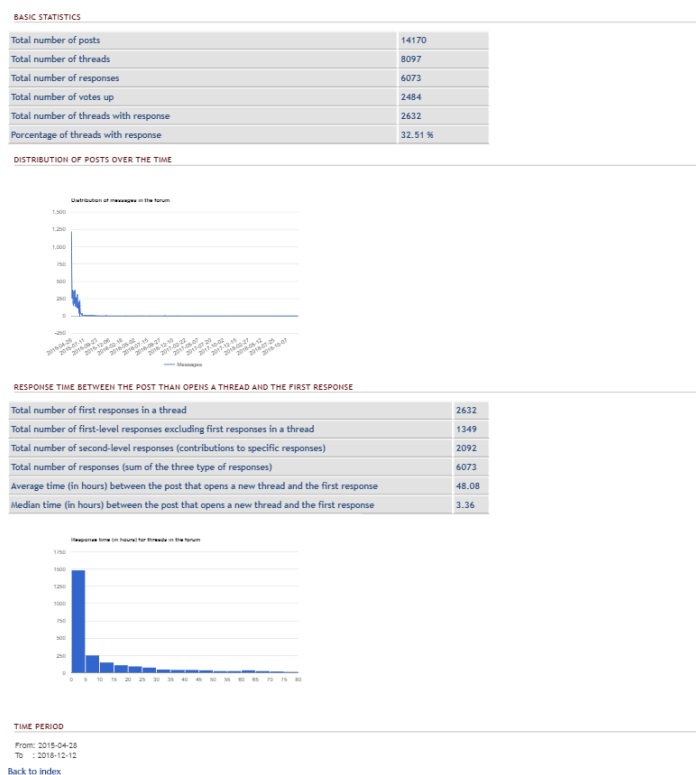
b. Participation Data

- This section represents the students' interaction with the forum:

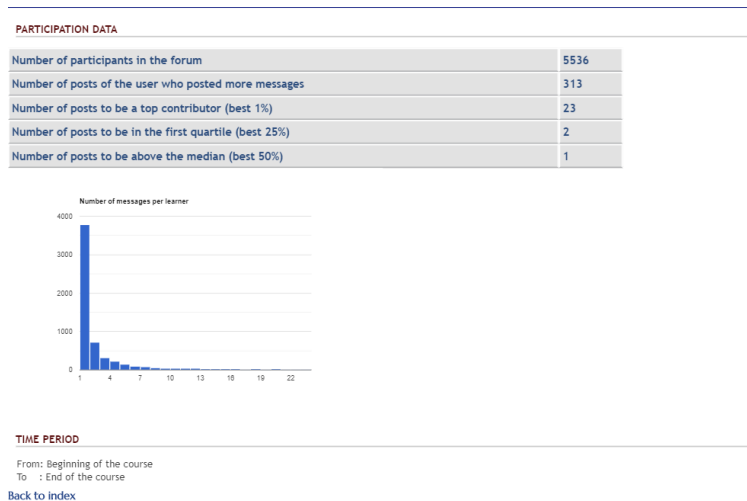|	
Number of participants in the forum	5536
Number of posts of the user who posted more messages	313
Number of posts to be a top contributor (best 1%)	23
Number of posts to be in the first quartile (best 25%)	2
Number of posts to be above the median (best 50%)	1

Number of messages per learner

TIME PERIOD

From: Beginning of the course
To : End of the course

Back to index

c. Posts with more responses

- This section shows a list with the top 20 posts with more responses:

List of messages

#	More	Val.	Title	Message
1	○	44	I need help to progress with Activity 3	I don't know how to start with activity 3. How do…
2	○	40	Discussion forum: best practices	Dear learners, After a couple of weeks since the …
3	○	29	Concern about plagiarism	I completed the second P2P assignment a few days a…
4	○	25	question	should'nt it be 57 instead of 59. f=25?...
5	○	23	Opinions about the difficulty of the EXAM 3.	I would like if those who already have programming…
6	○	22	Test is just too difficult - no link from tutorial to test.	I find this test just far and beyond what we have …
7	○	21	Explaination needed	Can anyone explain more about the option "!(x < 5...
8	○	21	What if peer used recursion	Hi, any thoughts on how to handle when the peer I …
9	○	21	Extension of deadline for "Peer Assessment 1: reviews�? until 16 June (11:59 am UTC)	Dear learners, Due to the large number of people …
10	○	19	Disappointed in peer review comments	Well, I found strange that those reviewers that ga…
11	○	19	God I hate peer assessments	I'd rather just have a teacher explain the right c…
12	○	19	Please make your projects public	Dear learners, As you can see in the discussion f…
13	○	18	@Staff: Peer reviews - I am available for help	Hi staff, I can help with peer reviews - in case t…
14	○	17	The key to understand it…	You must remember the explanation about the ternar…
15	○	17	Wrong results = lost decimals?	I do no rounding at all (which would be incorrect,…
16	○	17	IllegalArgumentException should be defined for all setters as well as constructor?	Hi, Do we need to define the IllegalArgumentExce…
17	○	16	CodeBoard: Can anyone modify my code?	I developed my code on Codeboard for the Perr Revi…
18	○	16	Did i really need an interface and more…	It seems that a grader has cut marks because i did…
19	○	15	Problem	Hm, I really don't understand this new topic. Why …
20	○	15	@ Staff members :Keeping both previous hares pop AND lynx pop?	I am a bit scared as for how people would grade my…

DETAIL

LOAD MORE

Back to index

- Clicking in the 'Load More' button you can see up to the 100 posts with more responses.
- The 'Detail' button allows to see all the responses and comments included in the thread with detail:

I need help to progress with Activity 3

I don't know how to start with activity 3.
How do you change the initial program to specify that key UP, only moves car1?

Response 1

It´s easy, look on class car create variables for the direction keys (>String up, down, left, right, horn) and in its constructor assign tehj strings for this avriables
this.up =   up; this.down = down; this.left = left; this.right = right; this.horn = horn;

After that modify methods and do not use Strings use your variables
public void moveForward(){ if (Greenfoot.isKeyDown(this.up)){move(5);}}

NOw on class MyWorld modify the creation of instances sending values
Car car2 = new Car(new String("car3.png"), new String("car4.png"), new String("w"), new String("s"), new String("a"), new String("d"), new String("e"));

TADA!!!! well hope that this help

Response 2

The solution is not to subclass because you don't have another type of car to deal with, but the same kind of car to deal with.
You have to add private variables in the class definition and then have getter and setter methods for each string variable. You also have to change the car methods where there is a hard coded literal for each controller to the appropriate getter m…
code.

Comment 1

Hey, can you also post the getter and setter commands please? I am confused about how exactly do I need to type in setter and getter

Comment 2

Also, what is data type of keys, like "up". I wrote public void setForwardKey(String w, String up) {
   this.w =w;
    this.up=up;
}

public String getForwardKey() {
    return this.w;
    return this.up;
}

d. Post with more votes

- This section is like the previous one but in this case posts and responses with more votes are shown.

e. Sentiment Analysis

- This section shows if the general feeling of the students is positive, negative, or neutral during the course. It directly depends on the number of negative or positive words of the posts.
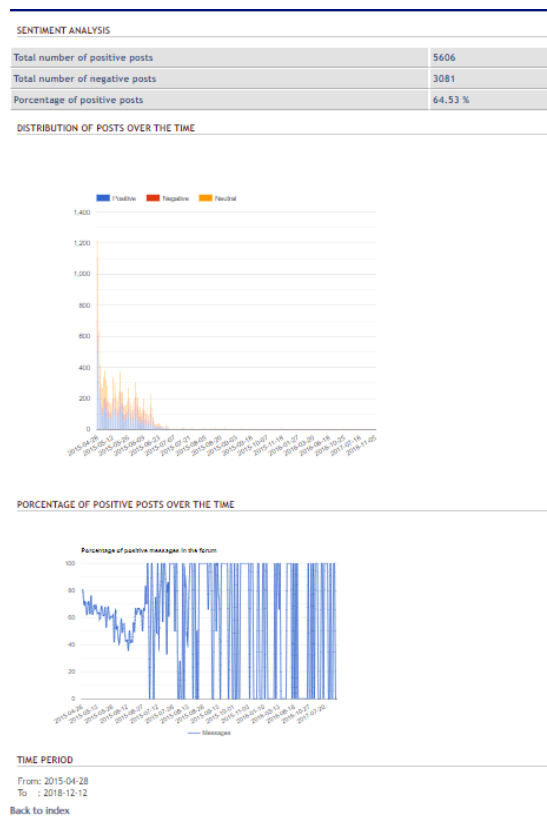
f. Visualize distribution of mentions in the skills

- This section shows a graph including the skills defined in the corresponding section. The user must define the skills before visualizing the graph *(See section 3.a. Define the skills of the course)*.

Distribution of skills
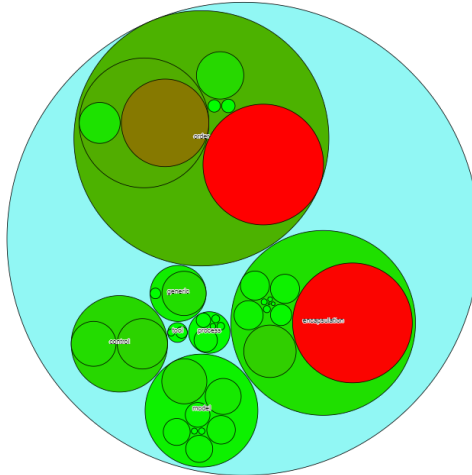
- The size of the circle depends on the number of mentions that the skill has got in the forum, the more times it has been mentioned the larger will be the circle. The circles inside others represent the hierarchical structure.
- The circles colour also depends on the number of mentions, but in this case it is the mean of the colour of the circles inside it (its child nodes). In this case, the more mentions it has the redder will be the circle.

5) Forum Participation Grades

- The user can define any of the inputs. If the user does not specify an input, it will take the value shown as default.

- For number inputs, the user can type the number or select it using the arrows.
- For range inputs, the user must drag the pointer from 0 (minimum value) to 10 (maximum).
- When clicking on the info icon a popup appears showing information that helps the user to understand the input implications.

- **Advanced parameters:** By clicking on the corresponding button six new parameters will appear. These inputs represent the ranges of responses and votes. Part of the score assigned to the posts in the grading method will depend on these ranges.

- **Extra points:** By clicking on the corresponding button two new parameters will appear. These inputs represent the extra points (in percentage) that the posts or user can get.

- By clicking in the corresponding icon, the desired statistics will appear in a new webpage or the grades will be downloaded in the chosen format.

Action	View/Download
General statistics	
Forum Participation Grades	
Download Forum Grades	

a. General Statistics

- This section includes the more representative statistics regarding individual grades: average, median, node, maximum grade, top contributors, and quartiles.

Note: Only students who has contributed with at least one post are included in the statistics shown below.

Forum Contribution Grades: General Statistics

Number of students with at least one post	5536
Final Grade Average	0.48
Final Grade Median	0.0
Final Grade Mode	0.0
Maximum Final Grade	8.28
Final Grade to be a top contributor (best 1%)	5.66
Final Grade to be in the first quartile (best 25%)	0.0
Final Grade to be above the third quartile (best 75%)	0.0

- The 'Posts Average Grade vs Period' graph shows the final grade (without extra points) depending on users' interaction with the forum.
- Each point represents a set of students with the same behaviour (post average grade and posting period). The larger is the point, the more students have the same behaviour.

- The more opacity indicates that there are overlapping points.

Posts Average Grade (per Student) vs Period
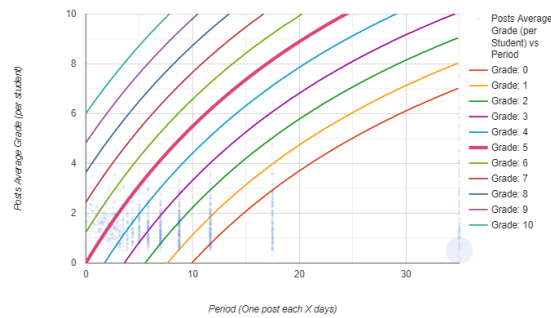
Note

- The points do not include extra score so the grade represented could be different from the user final grade.

- The last graph represents grades distribution. In this case, extra points are considered.
- By default, a y-axis linear scale is represented. By clicking in the button below the graph the y-axis scale changes to a log one.

Distribution of Forum Final Grades

Log scale
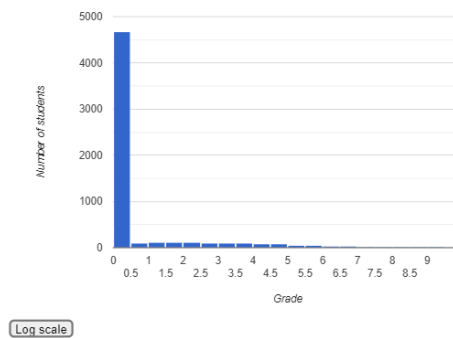
b. Forum Participation Grades

- This section shows the individual grades for each of the students that has participated (written a post) at least once in the forum.
- The user can select the desired sort order: Grade (High to Low: by default), Grade (Low to High), ID.

Forum Participation Grades

Note: Only students who has contributed with at least one post are included in the grades below.

Sort order by: (Grade (High to Low)) ⌄

ID	Grade
4dfbae8fdd553c5f9a37...	8.28
4a7e86db345d157a8632...	7.56
87626315577111de7bbf...	7.54
ef878345e90ce14b7759...	7.25
d1563d92a21413d4578a...	7.07
1d91dd02de80a96b3a3f...	6.8
89b0167eb8a5fa4df3a4...	6.8
6ddfcae9410eeb3bc5c9...	6.78
7aaa4d0cd0d3c2be2014...	6.72
85143a13b491baacaf83...	6.69
7e433db544ef3f43fd7e...	6.68
6ef244d028c7f7636f74...	6.59
b14fe7c018feab22ac09...	6.52
f845346f998bae4e55c4...	6.52
000d66932f045227aa09...	6.51

Note

- The student ID is biased to the first 20 characters.

c. Download Forum Grades

- The Forum Participation Final Grades can be downloaded in two formats: PDF and Excel.
- In case of PDF, the document will appear in the same browser tab. From there, the user can download it, print it, or open it in the Adobe Desktop application.

- In case of Excel download, the document will be directly downloaded to the default folder.

Note

- The student ID is biased to the first 30 characters in the PDF document. The Excel document shows the full user ID.

General Considerations

- Please, bear in mind, that when using navigator arrows for going back to the index, the input parameters may appear with the last value given. However, the real value that they are taking is the default one. It is recommendable to use the option 'Back to index' at the bottom of the page rather than the navigator arrows.
- The web application has been developed to be used with Google Chrome navigator. Please, be aware that using other web browsers can cause problems in the application.