

FBLA Trivia Tester

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Welcome to FBLA Trivia Tester! This game is designed to improve the studying experience for competitors in the seven written Introduction competitions by gamifying the process of answering questions and learning from one's mistakes. More will be explained in the "Structure" section of this document.

Documentation

Event:

Computer Game and Simulation Programming

Language:

Java SE 8, Processing 3

IDE:

Eclipse (Photon)

Photo Credits:

<https://longfordpc.com/images/moon-clipart-face-5.png>

<https://unixtitan.net/images/astronaut-clipart-7.png>

<http://cdn.desktopwallpapers4.me/wallpapers/digital-art/1920x1200/2/14858-grass-under-the-night-sky-1920x1200-digital-art-wallpaper.jpg>

<http://clipart-library.com/newimages/bird-clip-art-18.png>

[https://encrypted-tbn0.gstatic.com/images?](https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSNTl6mqv5b1CsGJpL0guJI91vxnToWzVoThIcfX9ZJ_01YKqr)

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https://www.clipartmax.com/png/middle/112-1124331_fuel-mileage-tuners-gas-station-icon.png

http://4vector.com/i/free-vector-kuba-arrow-button-set-clip-art_117492_Kuba_Arrow_Button_Set_clip_art_hight.png

https://www.clipartmax.com/png/small/212-2124512_cones-png-clipart-safety-cone-png.png

<https://www.ebuyer.com/blog/wp-content/uploads/2018/01/earth-from-space.jpg>

<http://www.fbلا-pbl.org/media/FBLA-Logo-Color.png>

Additional Resources:

<https://processing.org/reference/>

<https://docs.oracle.com/javase/7/docs/api/>

<https://stackoverflow.com>

**All icons and resources free for non-commercial use*

Structure

Upon opening the program, the user will see a welcome screen, leading to the introduction and instructions. After choosing the 5 competitions, the main menu will appear. This menu has seven options: go to each of the five conferences (each one with a different competition), proceeding to nationals, and quitting.

Inside each conference, the player must win a total of 4 minigames,

from the selection of 4 types of games. By completing 4 minigames in a conference, the conference is completed, and by completing all 5 of the conferences the player may proceed to nationals.

Nationals will consist of up to 10 questions the player got wrong in any of the conferences. The difficulty of each game in nationals is increased significantly, which presents a greater challenge due to the player's second time seeing the question in each game.

After completing all of the games in nationals, the player wins.

Miscellaneous Tips

Each game features a **“QUIT”** button at any given time, and a **“PAUSE”** button when the game itself is running. However, at any point during the program, the player may press the **escape key (ESC)** to instantly exit the entire program.

Credits/Division of Workload

Eylam Tagor:

- Space and Driving minigames
- Fine-tuning the menu
- General bug-fixing

Ayush Satyavarpu:

- Bird and Flashlight minigames

- Fine-tuning the menu
- General bug-fixing

Sohil Nadarajan:

- Base skeleton for menu