

Power Point Manual

**Get On The
BUS**



**BrainMaster
Universe
Simplified**



“Sharp”
level 1
(No Changes)

Sharp

Level 1

- At level 1 the “Sharp” Setting provides a broadband reduction in the EEG from 1 to 38 Hz at Cz.
- By rewarding this reduction the setting targets the most elevated amplitude in the spectrum (usually the slow waves including alpha) and helps to remove “brain cloud” and promotes sharpness of thought.

All protocols are for demo and research purposes only. Clinicians must determine protocol choices. All protocols must be used within scope of practice and scope of competence.

Sharp

Level 1

- “Brain Fog” or slowness of thought is a mental state inflicting many whether from poor nutrition, metabolic stress or the result of anesthesia from surgery, chemotherapy or recovery from disease. Sharp is a setting which helps to gently awaken the mind by reducing slow waves, particularly high amplitude slow alpha which tends to idle the brain thus dulling it to the external environment.

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Sharp

Level 1

Lets Begin

- Make Sure the Atlantis Amplifier is plugged in.

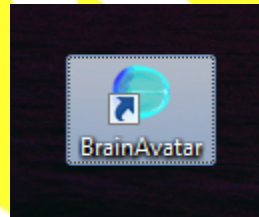


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Sharp

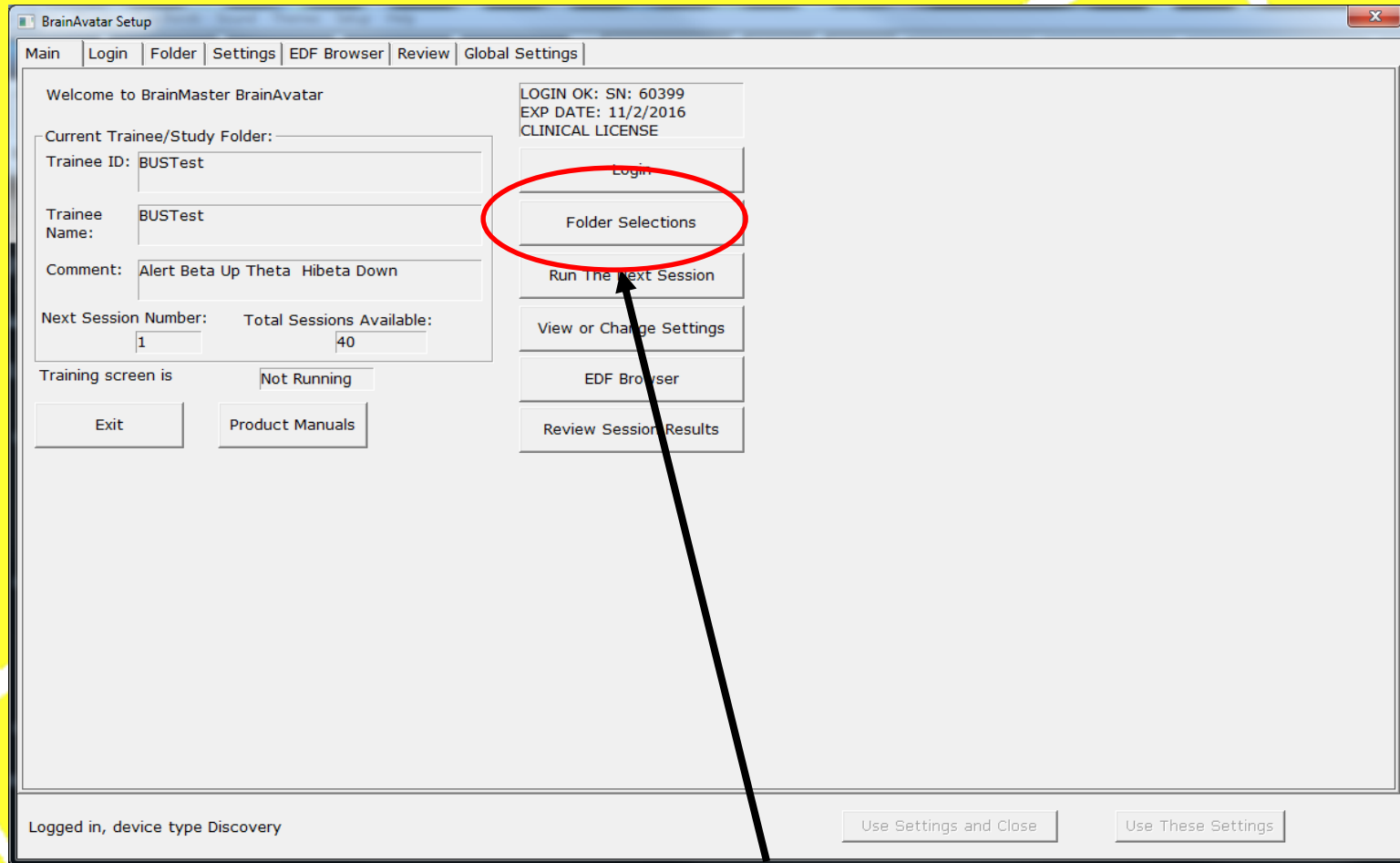
Level 1

- Open BrainAvatar by double-clicking the BrainAvatar Icon



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- The BrainAvatar Setup Window will Appear



- Click “Folder Selections”.

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- The Select Folder Screen will appear.

BrainAvatar Setup

Main | Login | Folder | Settings | EDF Browser | Review | Global Settings

Select Folder | Create Folder | Folder Notes | Session Librarian | Edit Folder Info.

Select Folder: (you may double-click to select)

Study Name	Birth Date	Sess	Max	Comment	Technician	Physician	Trainee Name	Created	Modified
..									
BUSTest	2000-7-4	40		Alert Beta Up T...	EEG tech		BUSTest	2016-8-3	2016-8-3

Study Name (Trainee ID): BroJad4chPZOKP3P4O1O2

Trainee Name: BroJad4chPZOKP3P4O1O2

Comment: comment

Sessions Used: 4

Max Sessions: 40

Session Librarian

Administer Session Genie | Push Current Study to Server and Delete | Archive Current Study | Archive Current Study and Delete

Create New Folder | Folder Notes | Edit Folder Info. | Select And Run

Logged in, device type Discovery

Use Settings and Close | Use These Settings

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- The Select Folder Screen will appear.

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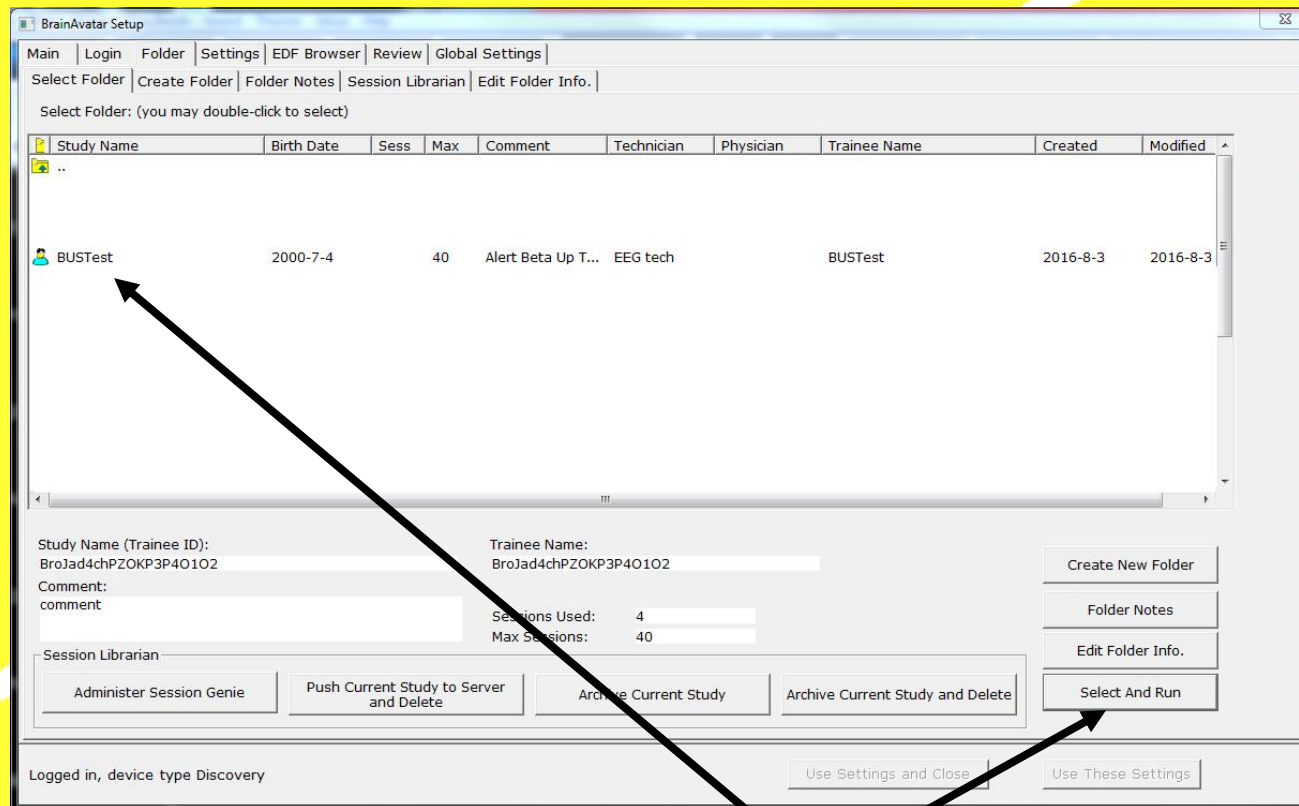
Create New Folder | Folder Notes | Edit Folder Info. | Select And Run

Logged in, device type Discovery

Use Settings and Close | Use These Settings

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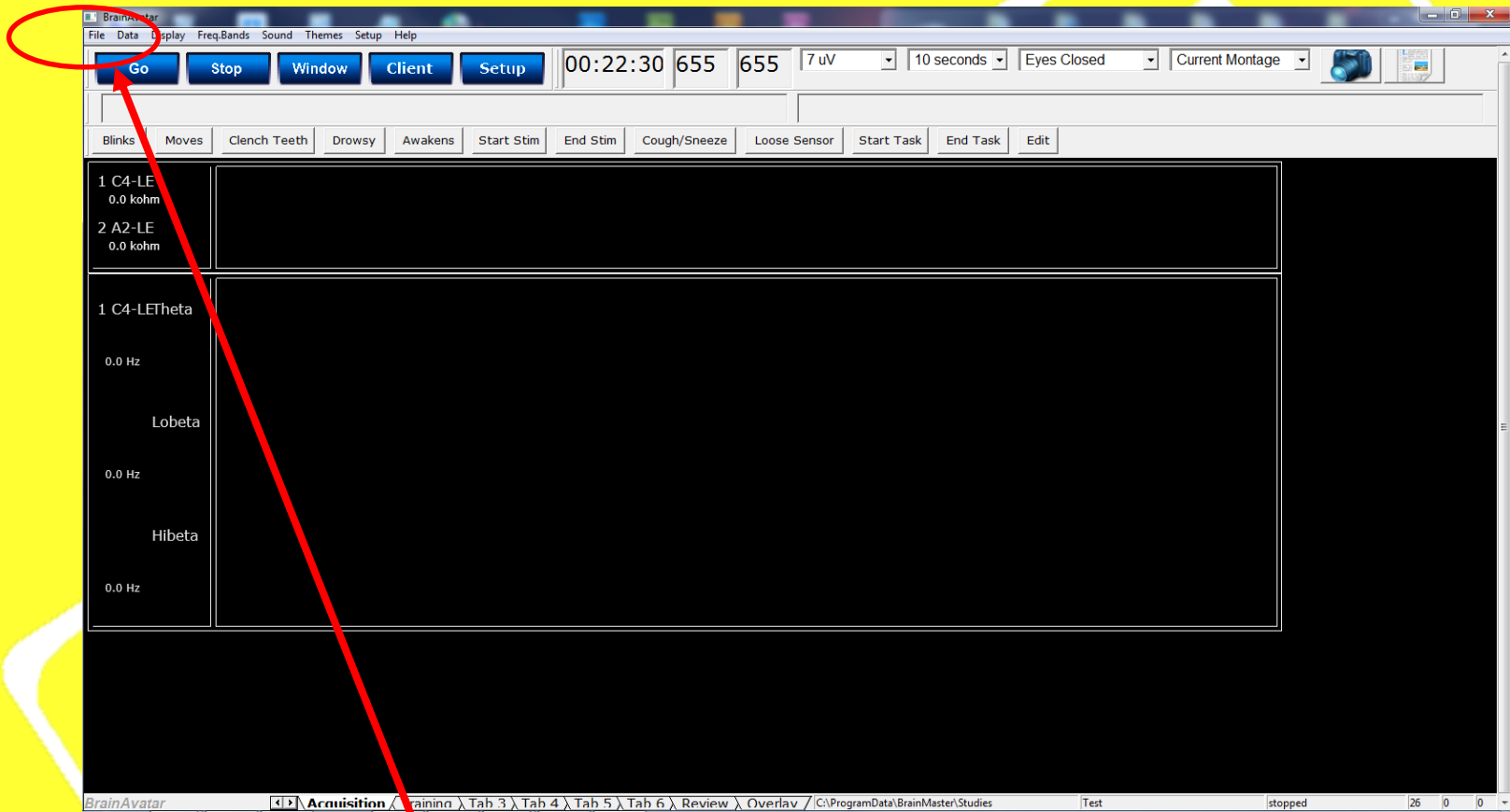
- The Select Folder Screen will appear.



- Click the Study (Folder) you would like to open (in this case BUSTest) and then click “Select and Run”.

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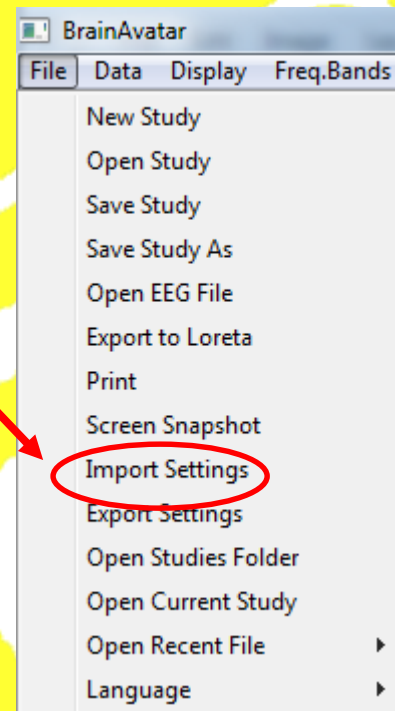
- The BrainAvatar Acquisition Screen is illuminated. Let's load the original Sharp Level 1 Setting File.




- Click “File” from the Main Menu at the top.

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- Next click “Import Settings”.



- Scroll to find the original Sharp Level 1 File and double click it.

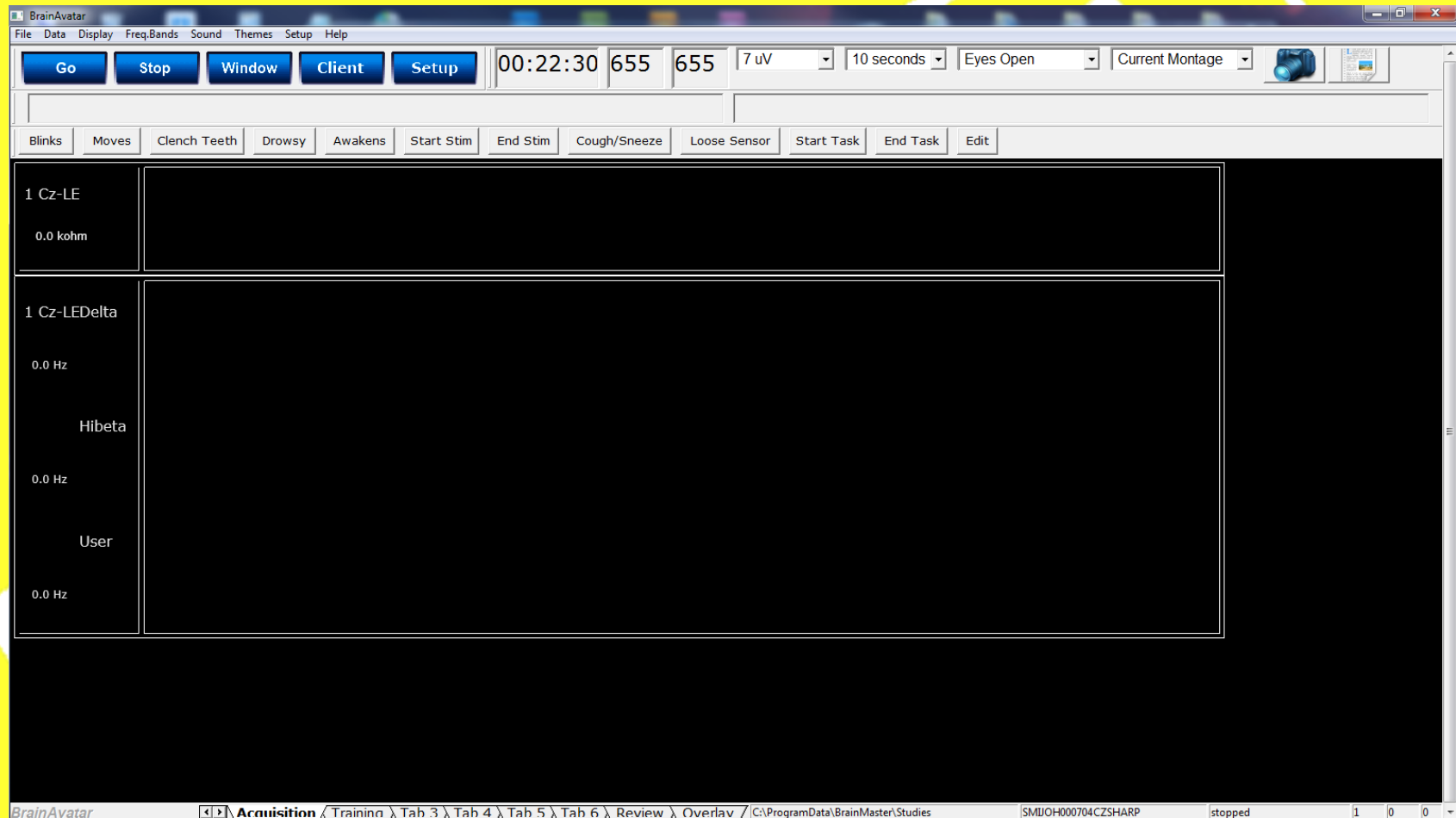
Name	Date modified	Type	Size
 0701001Sharp.bdb2	1/23/2016 5:56 PM	BDB2 File	142 KB

- The original Sharp Level 1 setting is imported into the Test Study and is now ready for modification

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Sharp

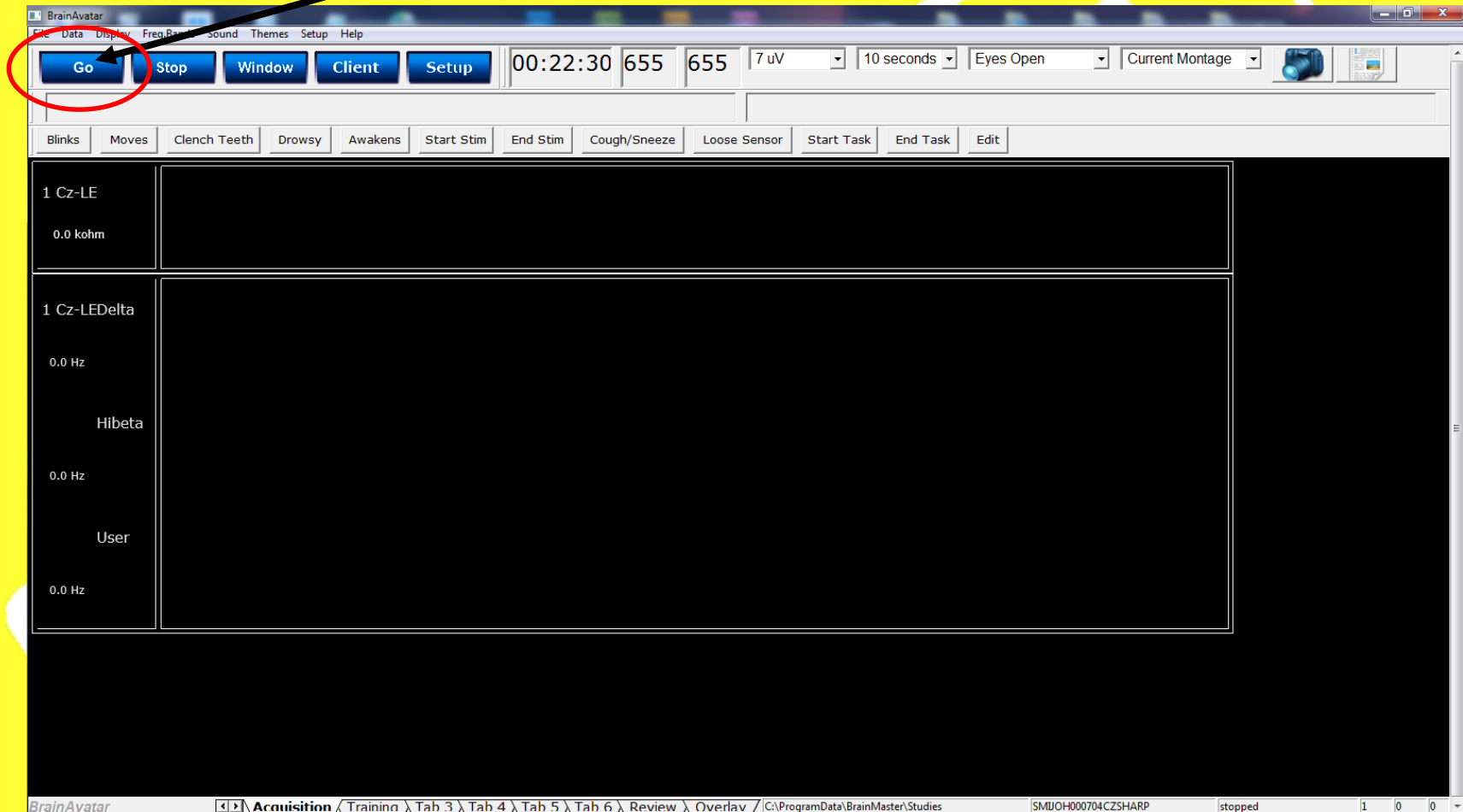
The Protocol is now ready to run



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Sharp

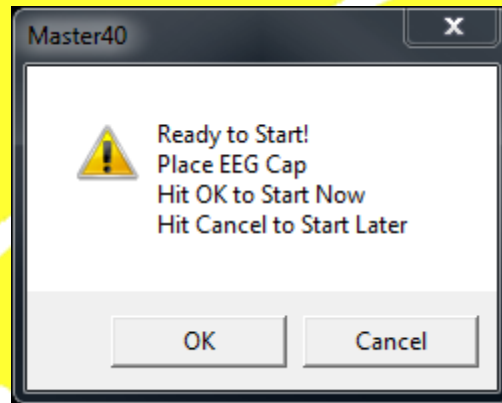
Click the “Go” Button



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Sharp

The Following Pop Up will appear



This is an indication to do one of two things:

1. Place the 19ch cap on the clients head and prep it using Cz, the two ear clips and the GND only or,
2. Place an electrode at Cz, two ear clips and one at a suitable ground location with the other ends plugged into the appropriate slots in the lid of the discovery.

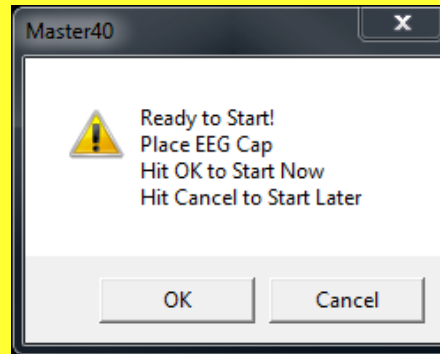
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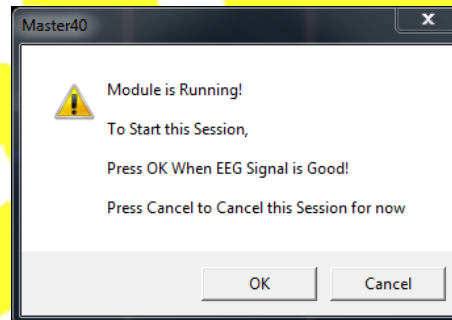
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Click “OK”



When you click “OK” BrainAvatar will begin recording EEG.

1. Check to make sure that the EEG is recording properly.
 - a. If not then check all your connections and impedances. Make sure there is no interference and that all cell phones are off
 - b. If the EEG is correct then click “OK” on the Pop Up and commence the session.



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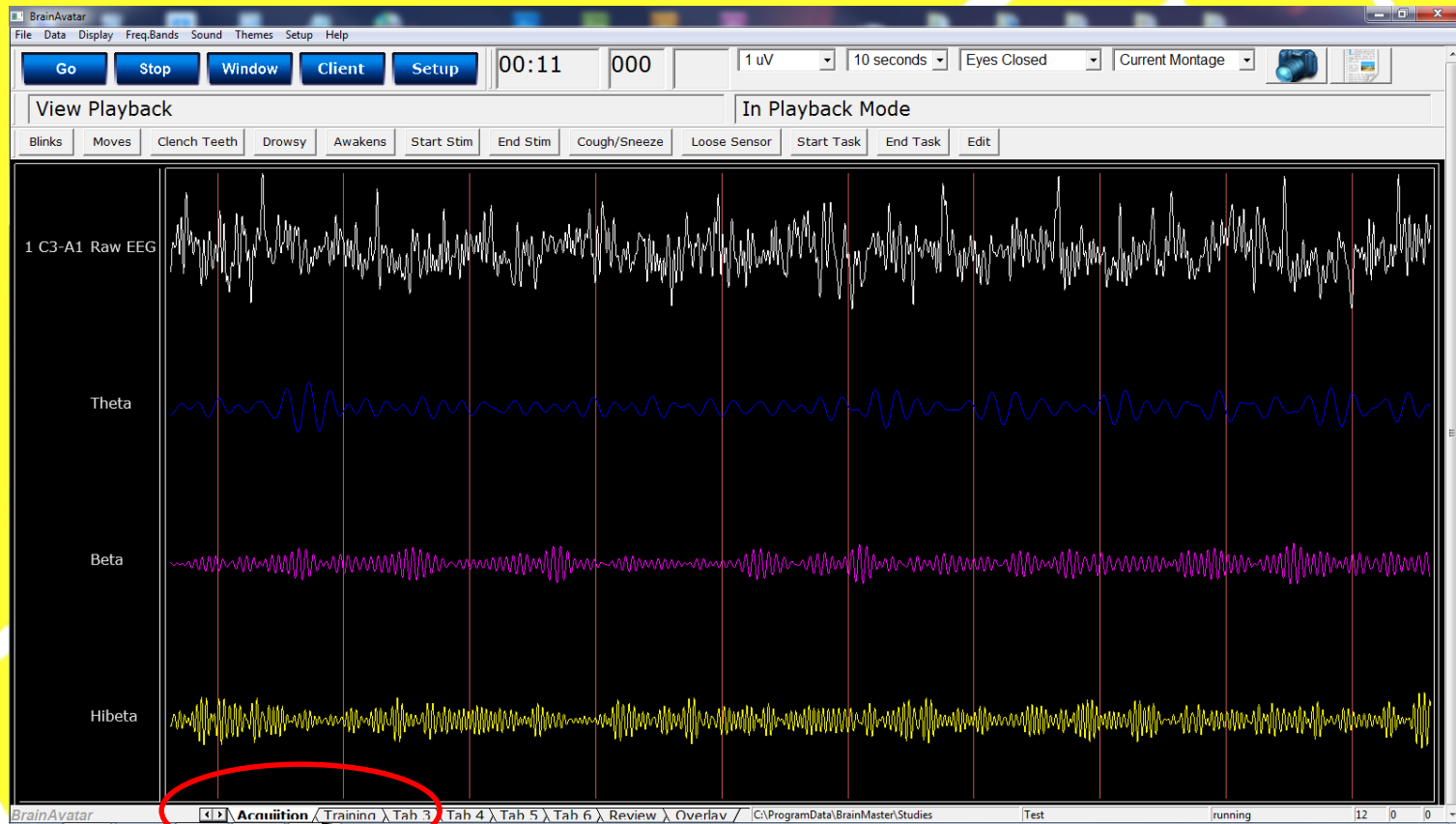
The protocol is designed to run for :

1. 10 contiguous 3 minute runs or 30 minutes. You may shorten the length of the session by hitting the “STOP” key at any time.
2. Thresholding is Automatic meaning that reward and inhibits are set automatically by the program.
 - a. Theta inhibit is set automatically at 20% of the time over threshold and is reset at the beginning of each 3 minute round.
 - b. Beta reward is set at 60% of the time over threshold and is reset at the beginning of each 3 minute round.
 - c. HiBeta inhibit is set at 10% of the time over threshold and is reset at the beginning of each 3 minute round.
3. Points are accumulated at the top of the screen.
4. A variety of games are provided to help engage the client.

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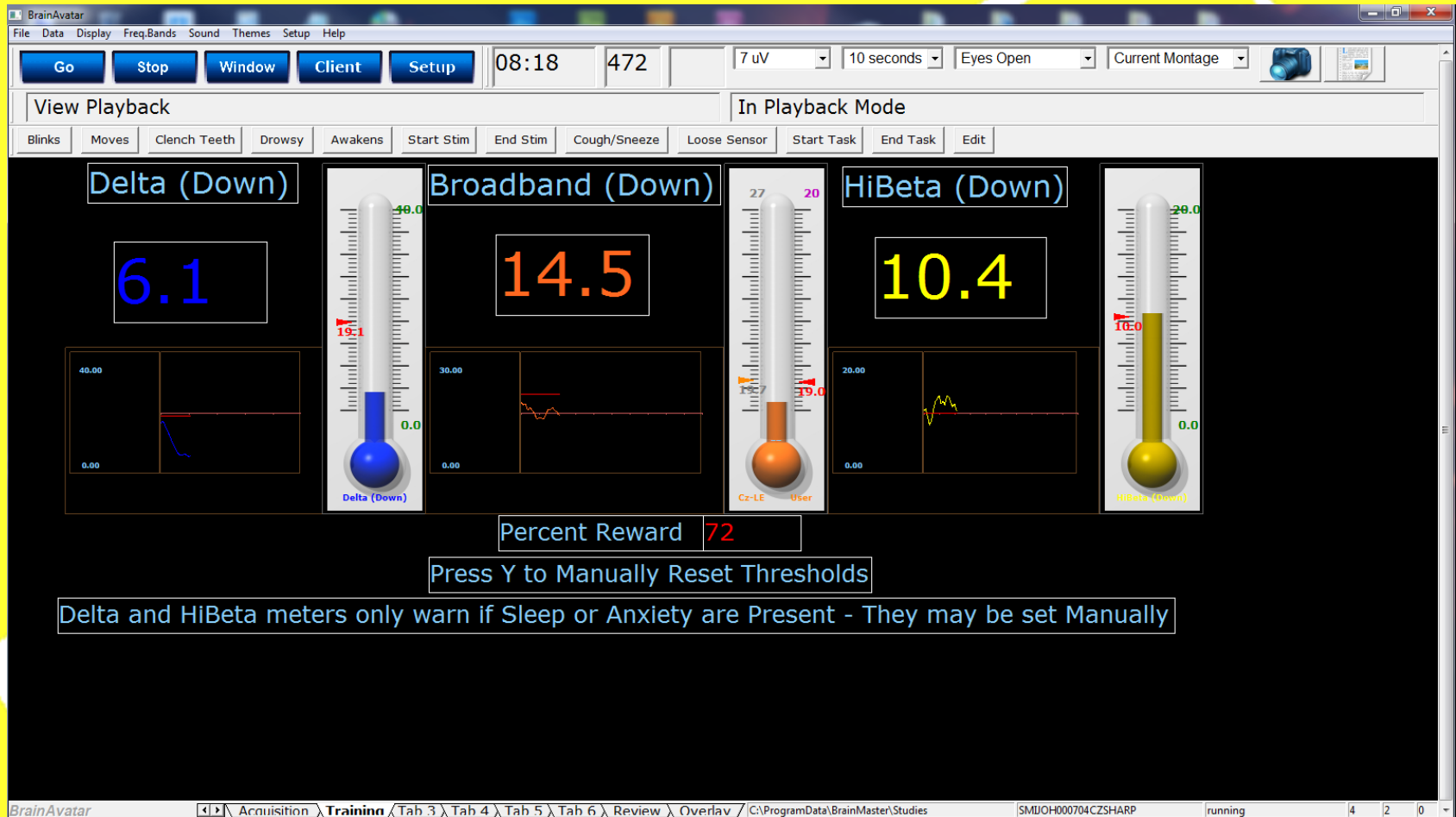
Take a moment and check the EEG is good. If not, then take necessary action



Next...please switch from the Acquisition Tab to the Training Tab by clicking “Training”.

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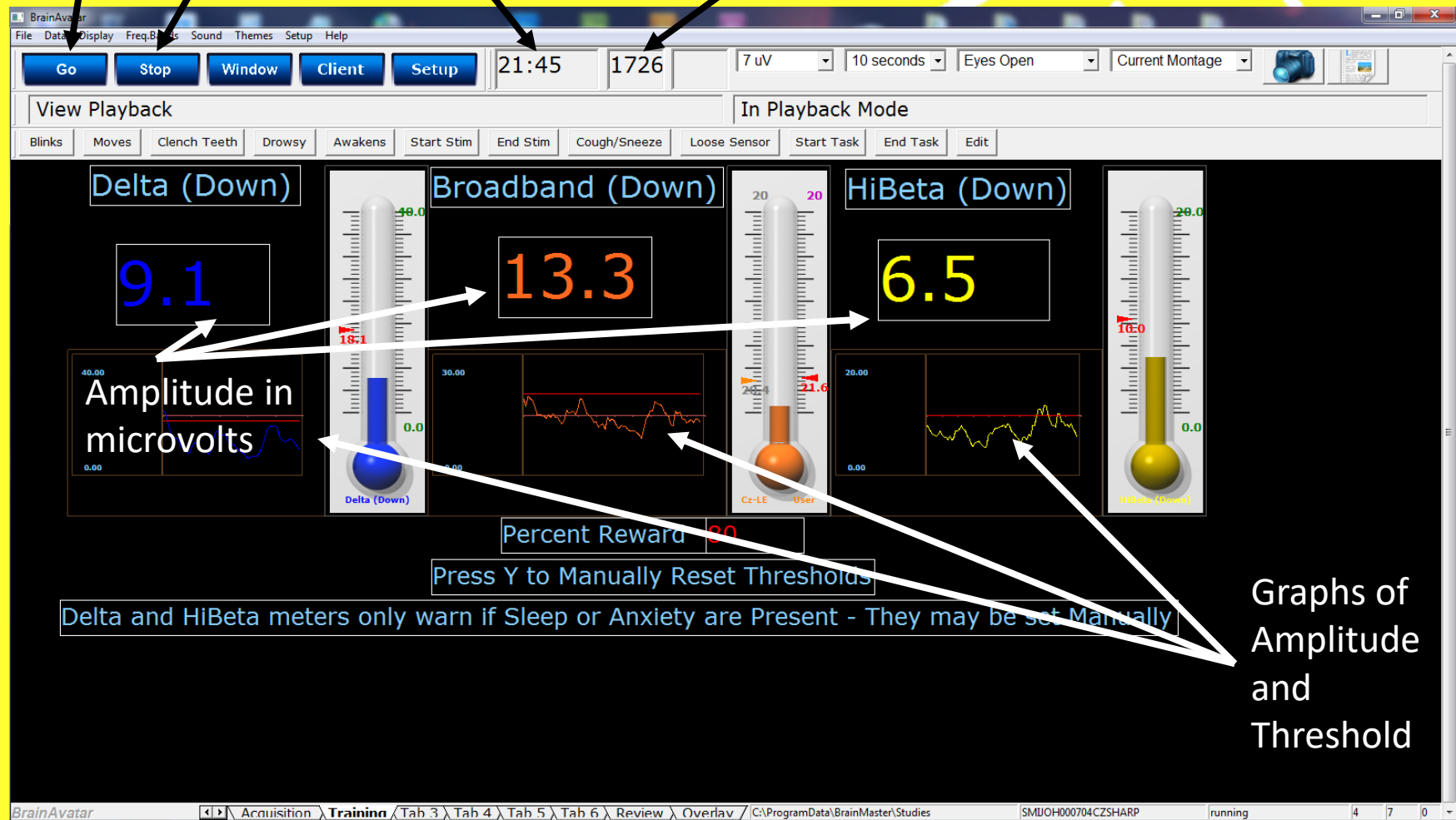
Sharp



Your screen should now look something like this.

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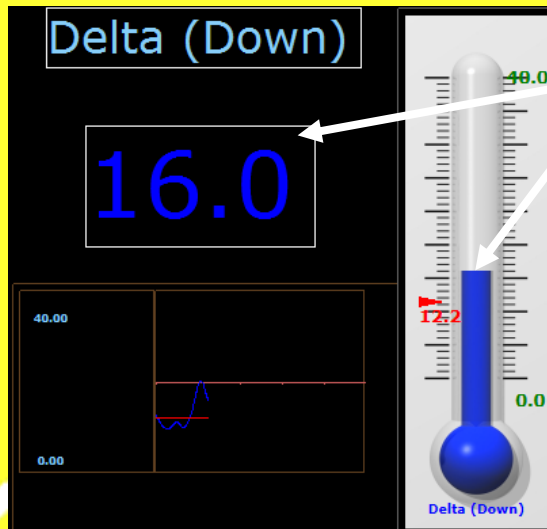
Start Session Stop Session Countdown Timer started at 30 min Points scored when all criteria have been met



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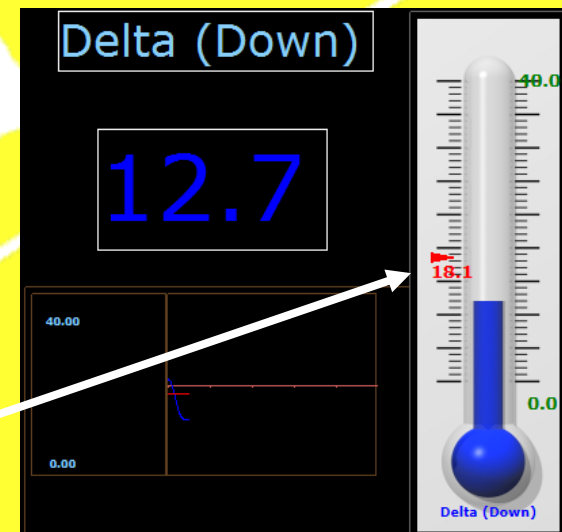
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To set the Delta Thermometer



Locate a high amplitude of Delta (16 microvolts)

Adjust the threshold to a point slightly above the amplitude observed above (18 microvolts)



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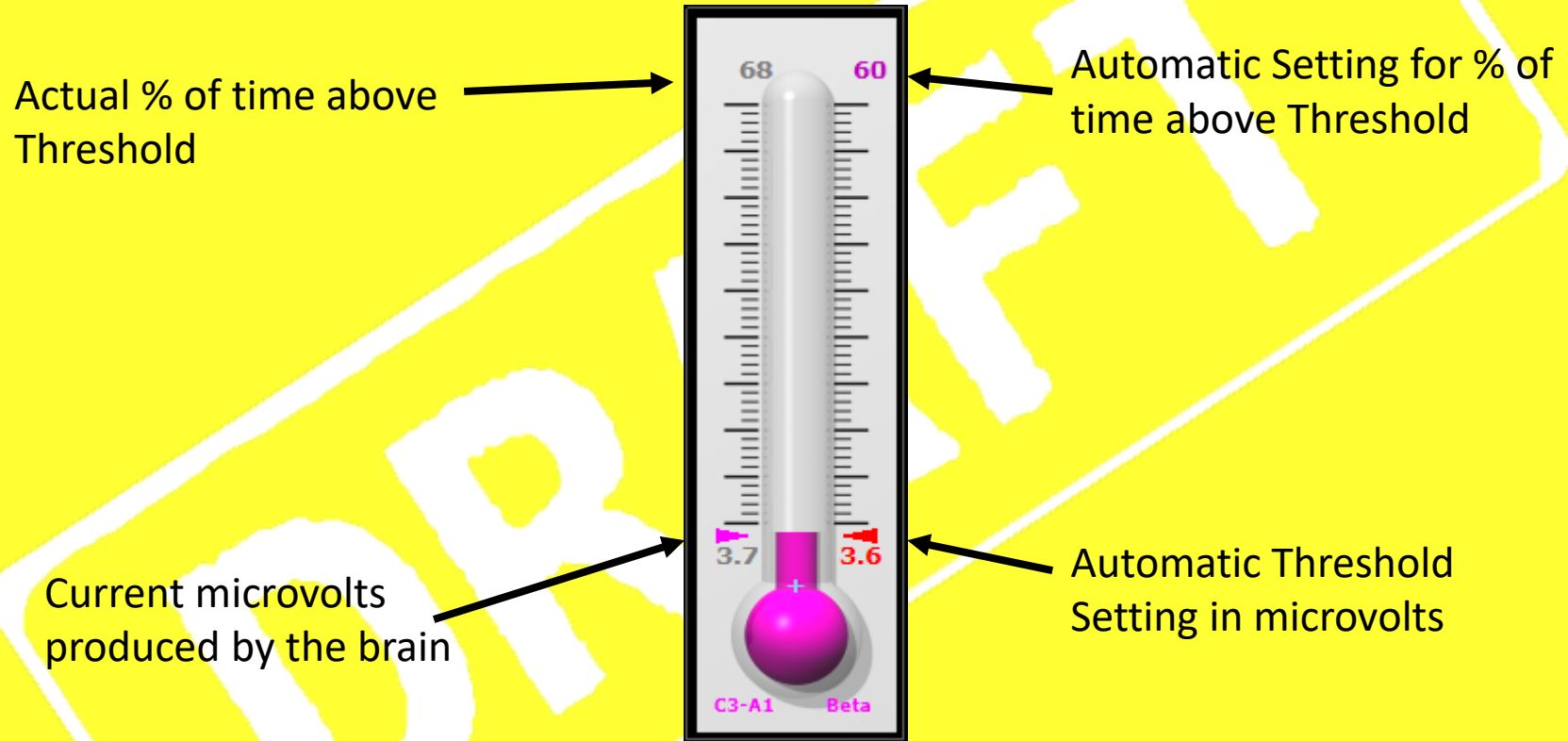
Sharp

TO PRIME THE AUTOMATIC
THRESHOLDING HIT THE “Y” KEY
THIRTY (30) SECONDS AFTER THE
PROGRAM IS STARTED.

If there seems to be a disparity between the automatic thresholding and the actual microvolts, hitting the “Y” key anytime will cause the threshold to equal the actual

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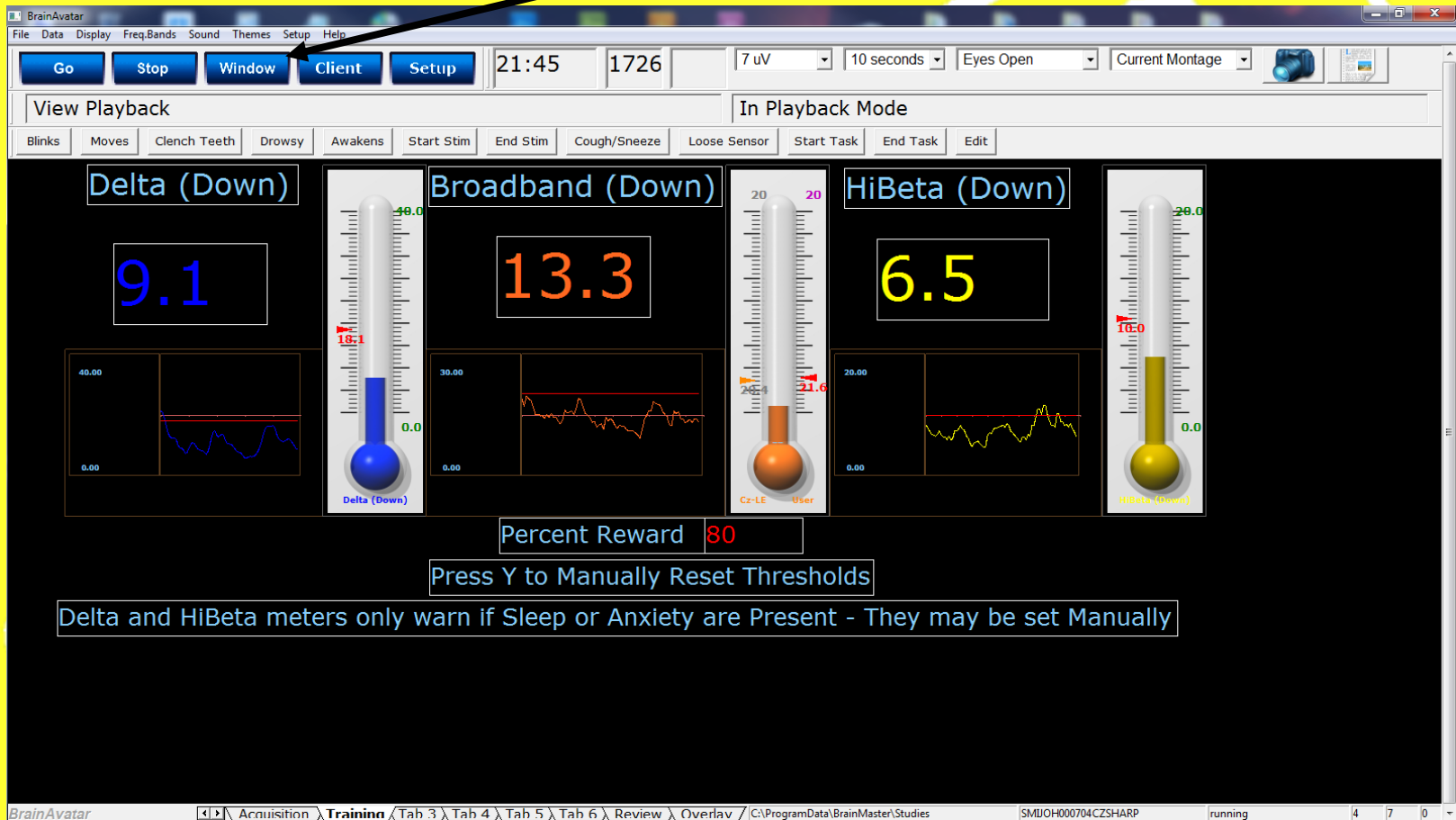
Reading the Thermometer



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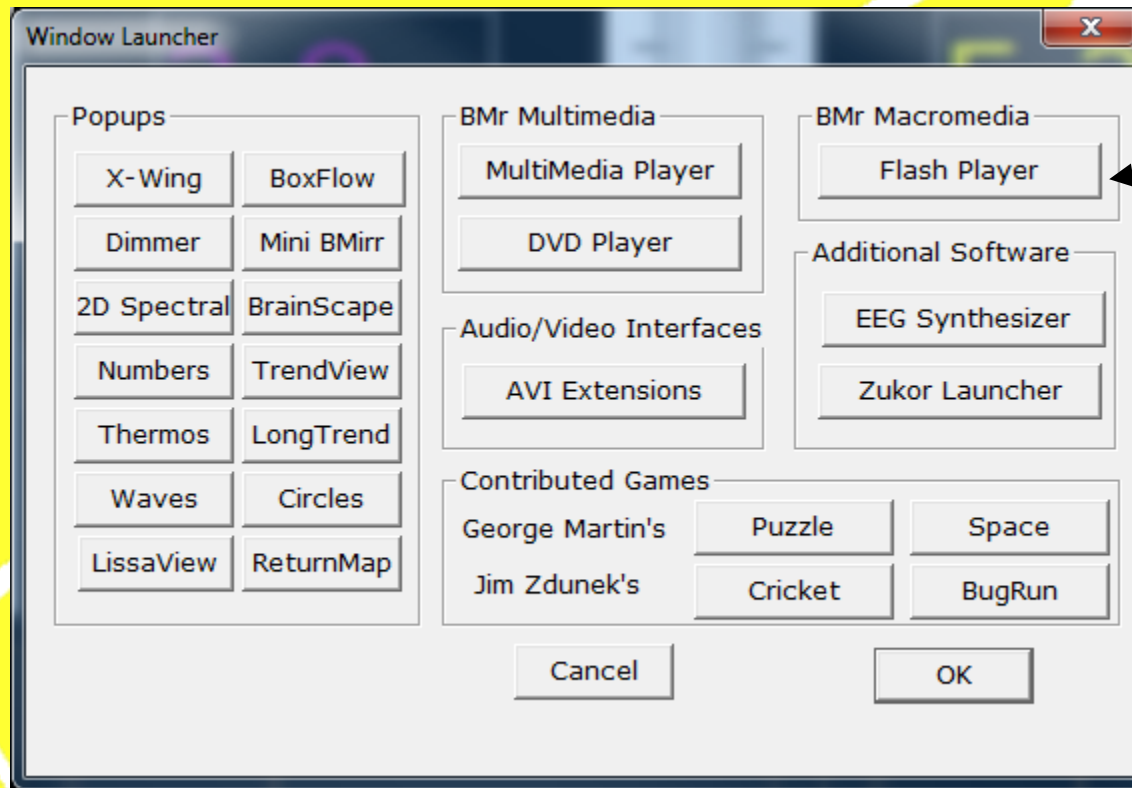
Flash Player for Games

Click "Window"



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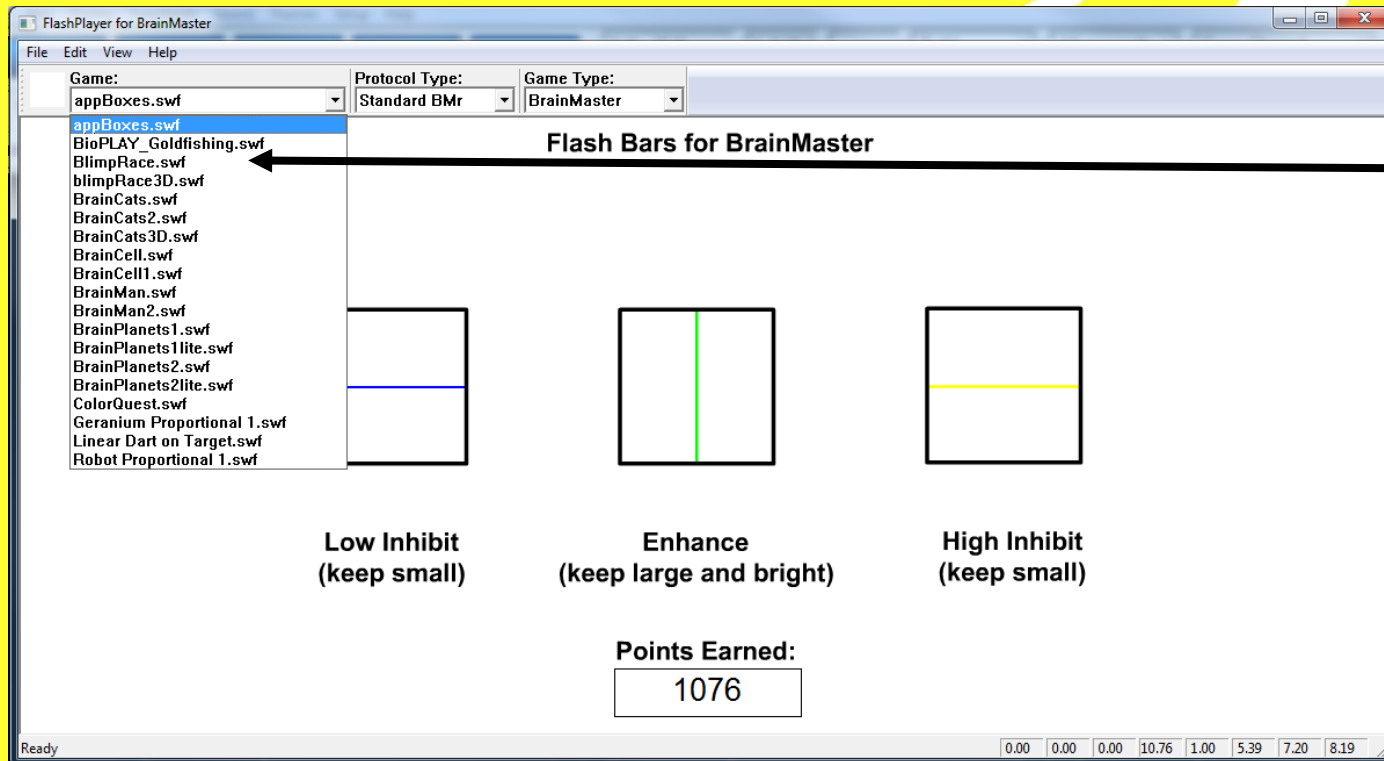
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Click "Flash Player"

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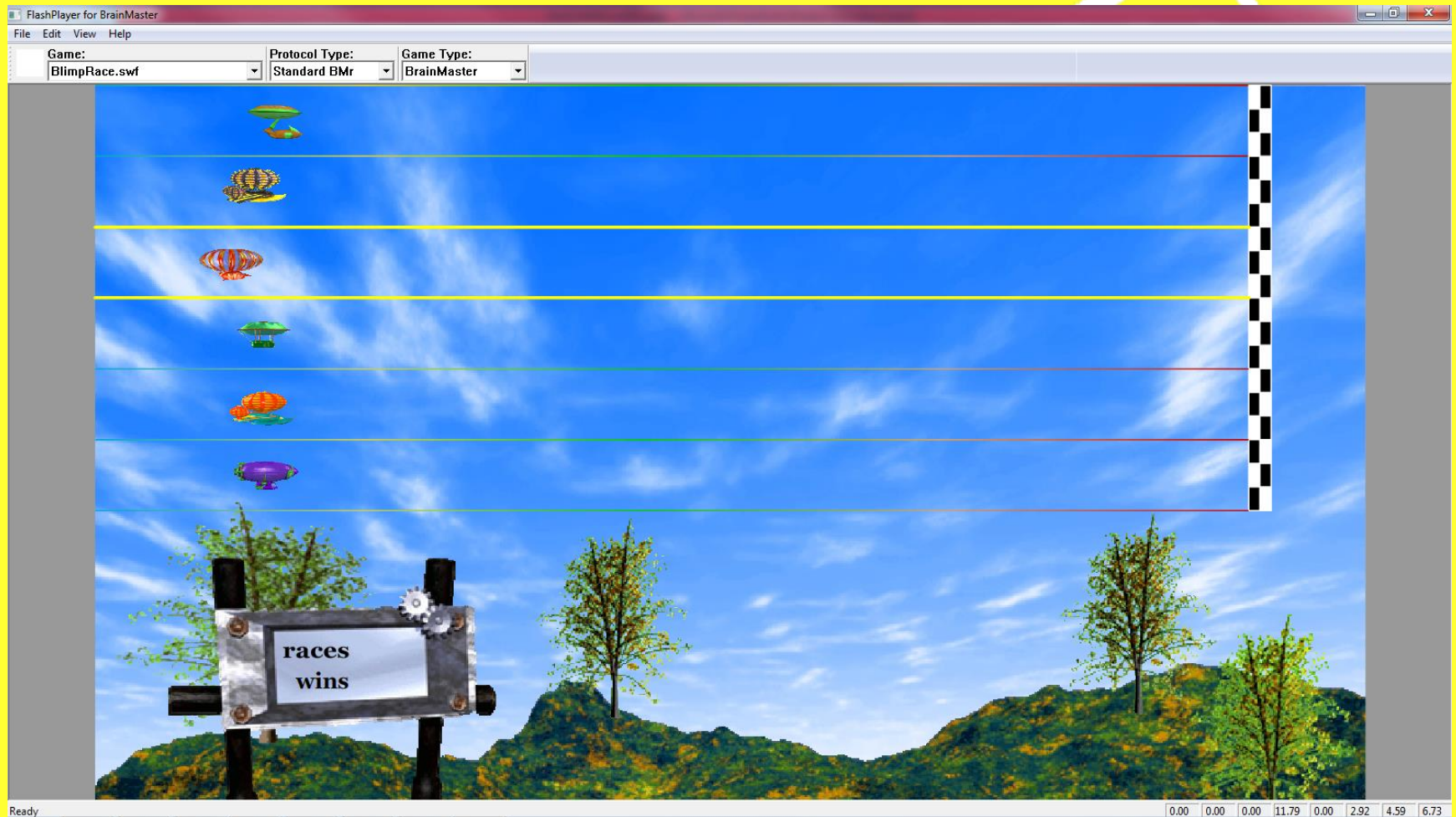
Flash Player for Games



Click "Blimp Race"

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Blimp Race



The blimp advances and the lane flashes yellow each time all three criteria are met

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Brain Cats 2

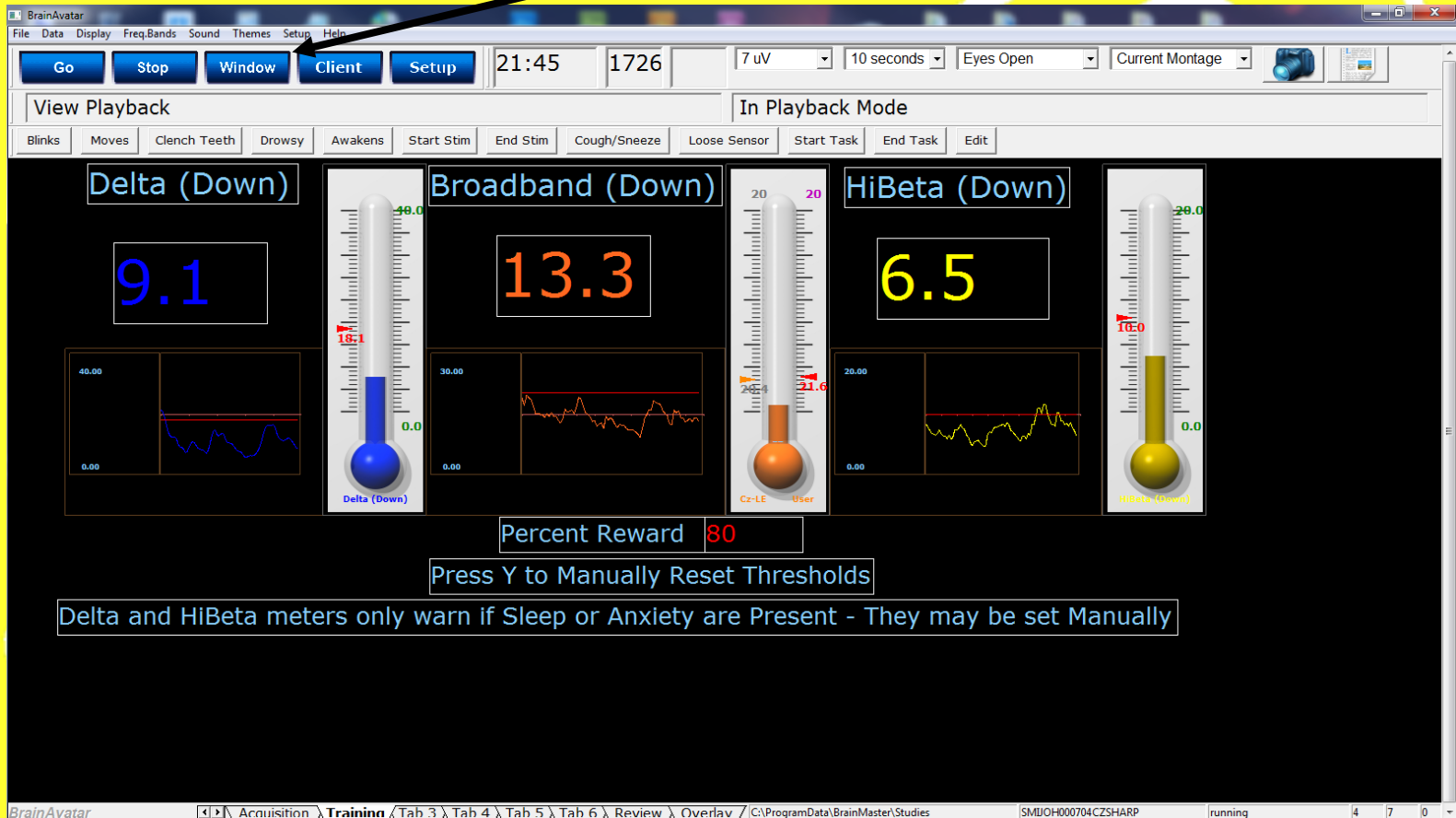


The Cat advances and the lane flashes yellow each time all three criteria are met

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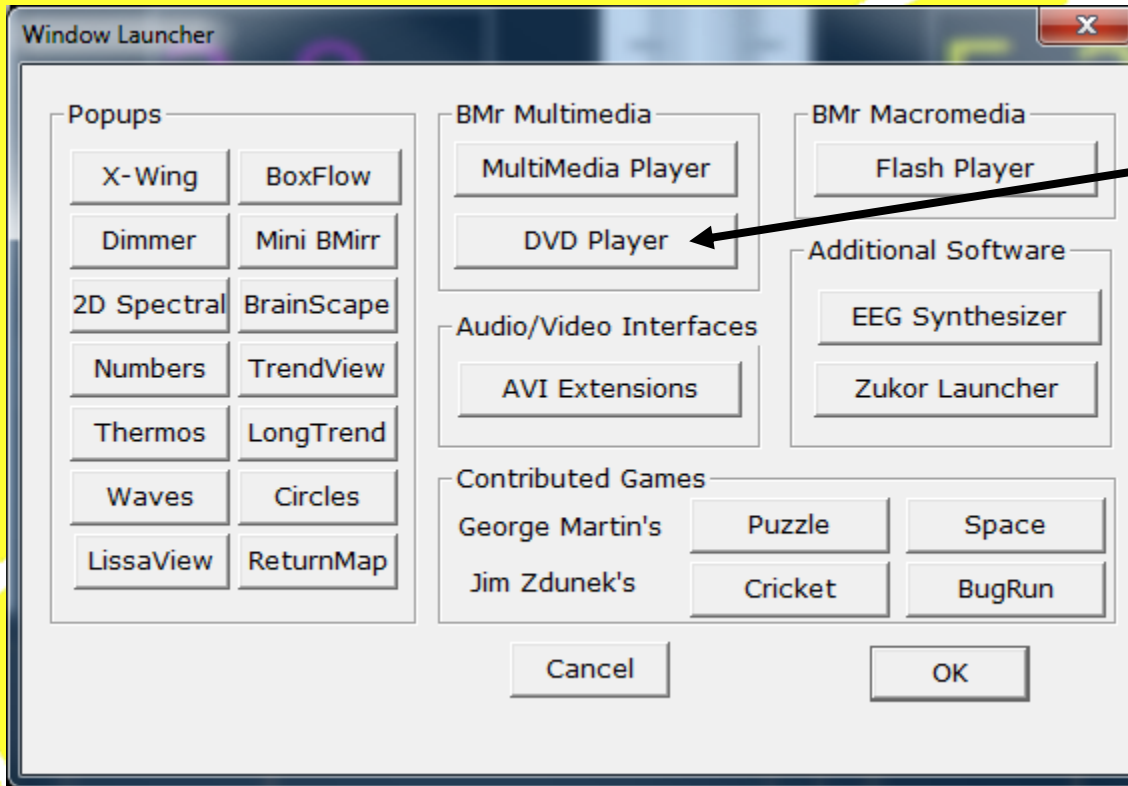
DVD's

Click "Window"



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DVD's



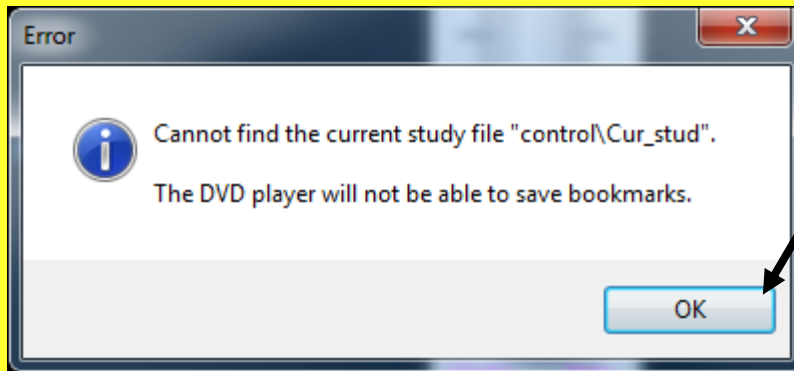
Place a DVD in the DVD Player

When the default DVD Player engages "CLOSE IT"

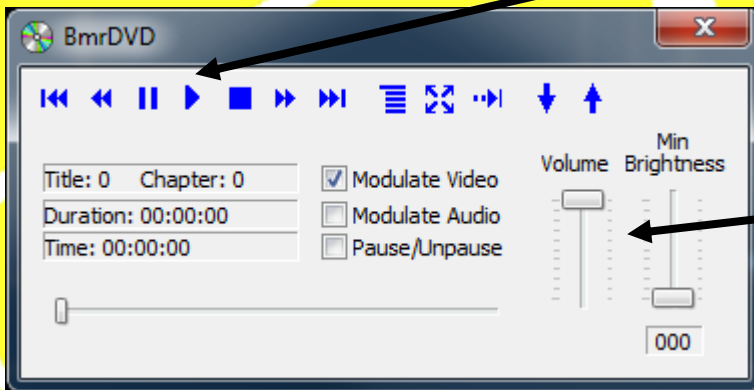
Click "DVD Player"

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DVD's



If this error message pops up simply click OK



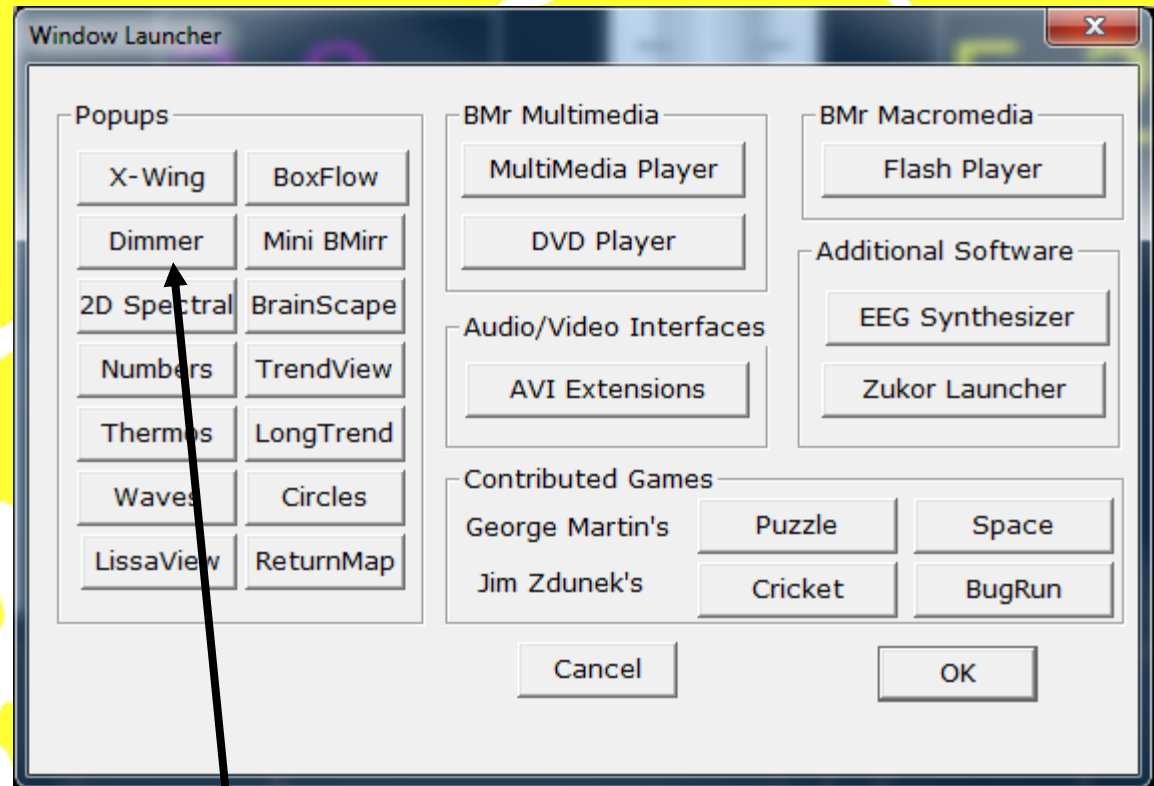
Next this typical DVD control box will appear. Hit the play button to start the DVD

The DVD will brighten and get louder when criteria are met. Adjust the volume and brightness with the sliders.

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The Dimmer

The Dimmer is a device which may be used with any DVD, Media Player, internet app or YouTube to provide feedback to the client from any BrainAvatar Setting.



Before clicking “Dimmer” choose an media source.

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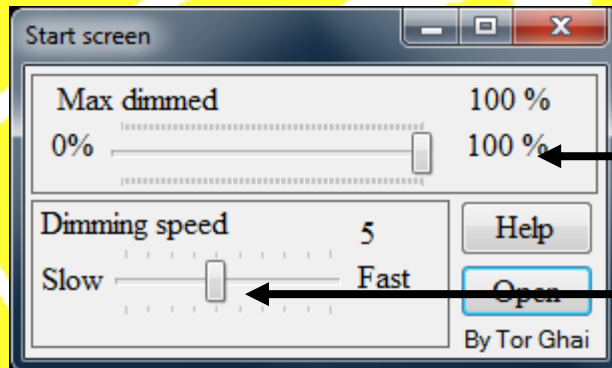
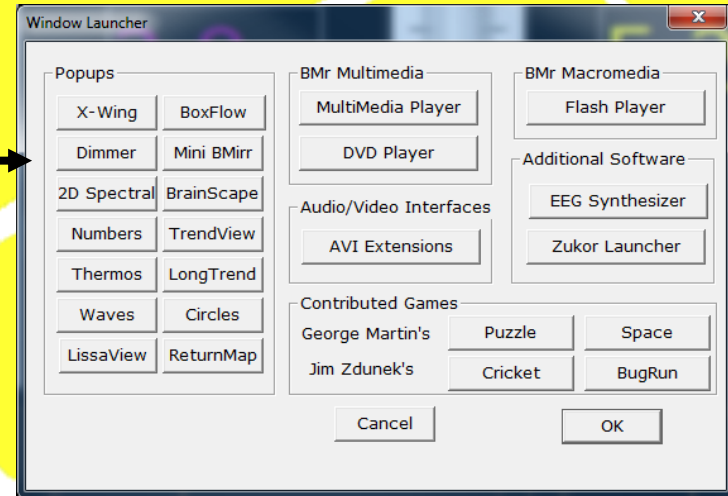
Choose a media source – in this case “YouTube”



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The Dimmer

Click “Dimmer”



The Start Screen Window Opens

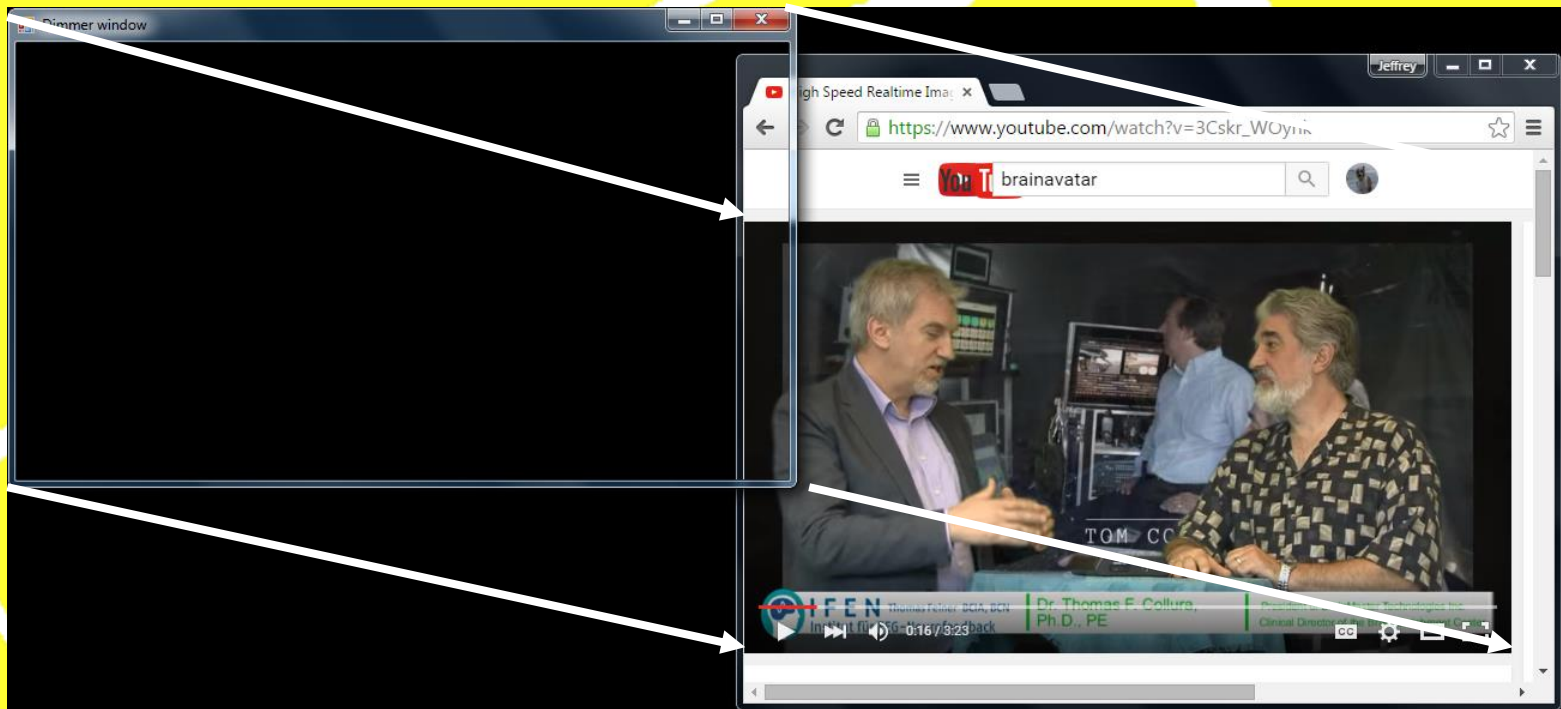
Maxed dimmed sets whether the media disappears or simply dims

Dimming speed sets how quickly the screen disappears

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The Dimmer

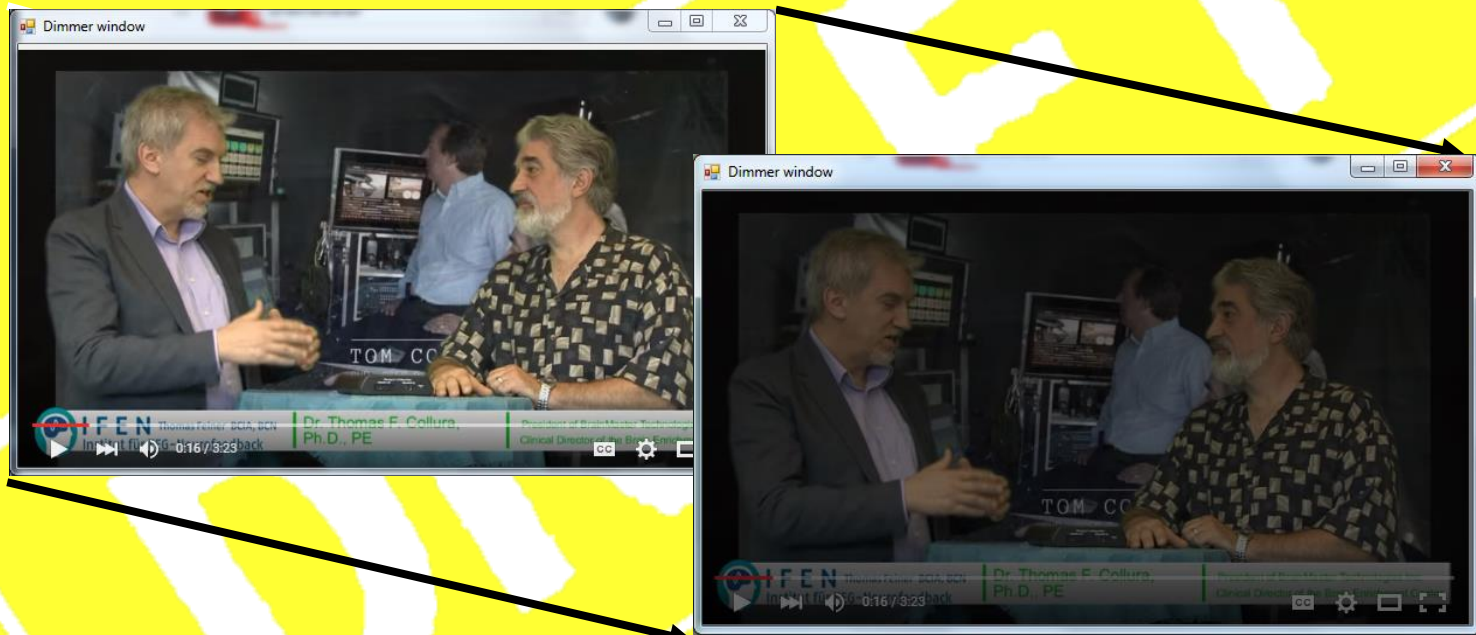
The Dimmer Window shall open which should be sized over the media that is presented to the client.



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The Dimmer

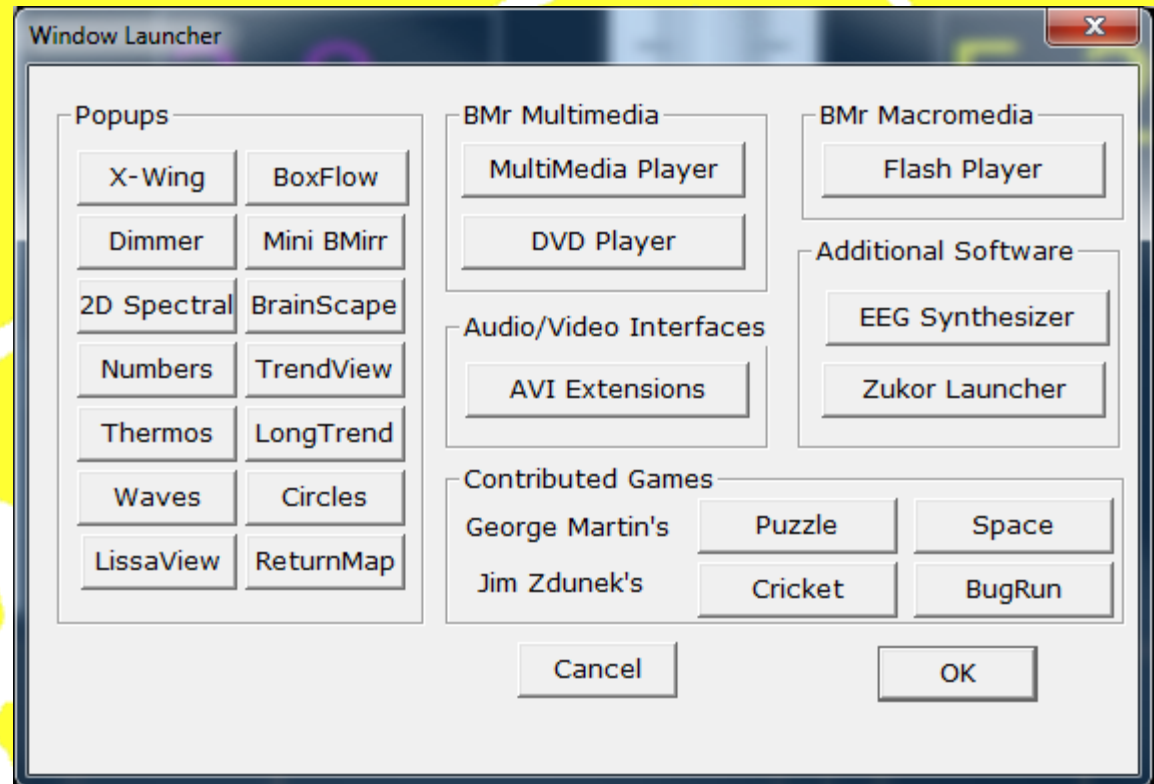
YouTube is illuminated when criteria are met and dims when they aren't



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Other Media

As you can see there are a myriad of media choices available so please feel free to try all of these to your client's content. For a more extreme experience contact BrainMaster Sales and inquire about the Zukor Games. If you have already purchased one or more of the Zukor Games their use will be covered in Level 2 and beyond.



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