Building experiments in



By Johnny Lau Modified on 26 Mar, 2019

PsychoPy – Exercise Stroop task

Task1 (~15mins)

- Familiarising with the software
- Basic control

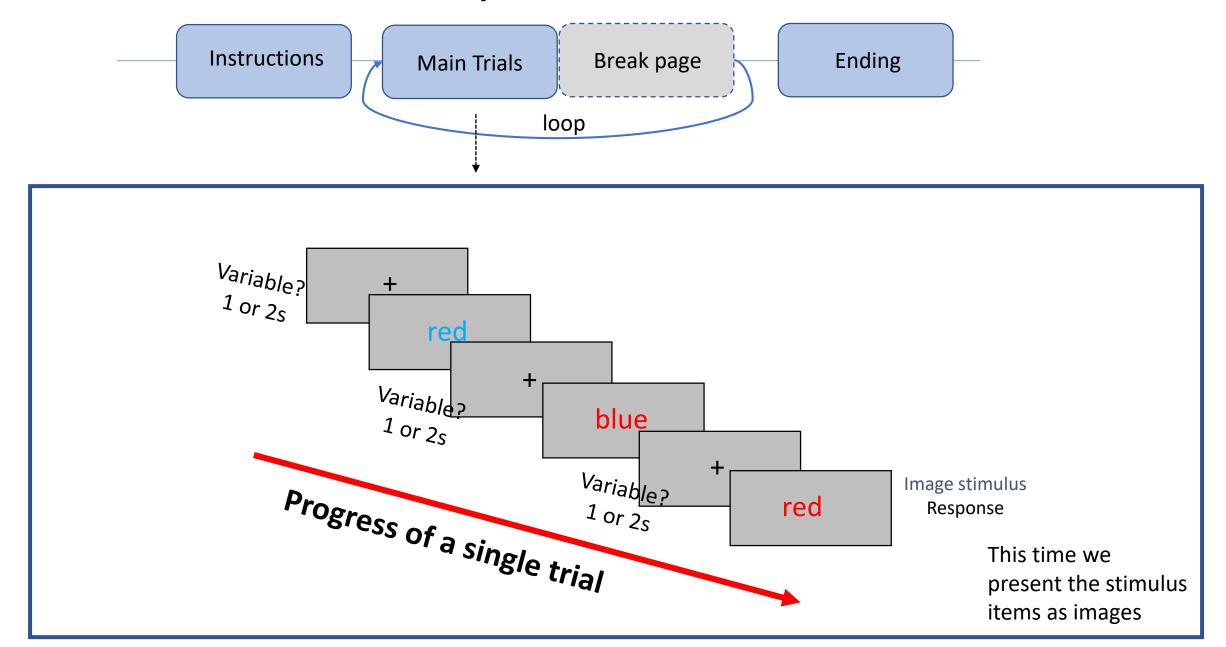
Task 2 (~25mins)

- Exploring other features
- Coding

Task 2

- Exploring other components (Image)
- Simple coding
- Introduce breaks in the experiment

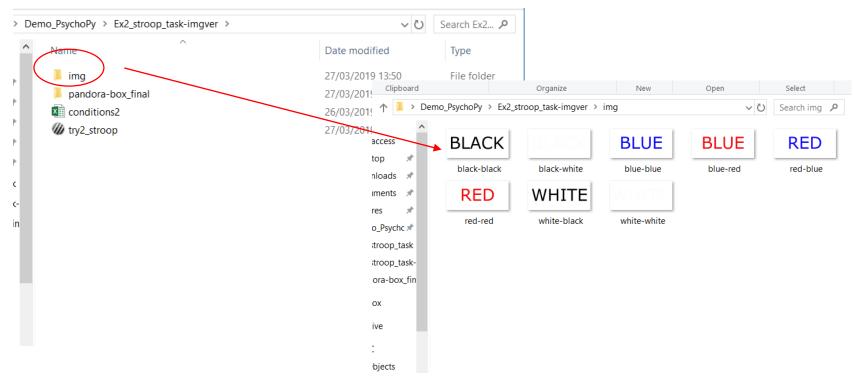
Illustration of the experimental task



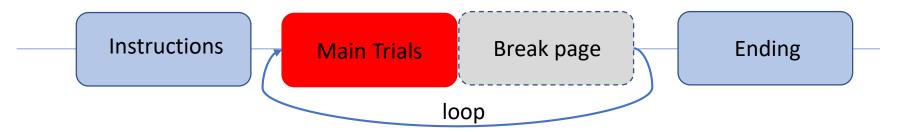
Preparation

To complete this task, you can either modify your programme from Task1 or start fresh by using the folder 'Ex2_stroop_task-imgver'

In the folder 'Ex2_stroop_task-imgver', there is a subfolder 'img' which contains all the image files you need to complete Task 2. There are 8 images altogether.

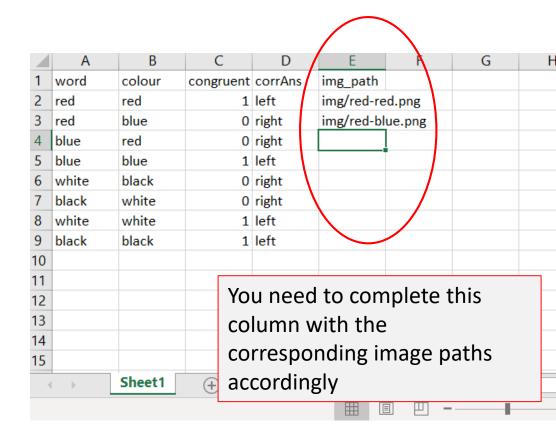


Conditions file

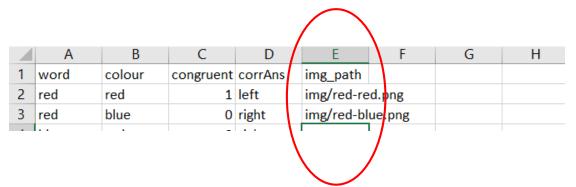


Similar to task 1, you need a conditions file so that the programme would know what stimulus items you are actually presenting

- Now, open the 'conditions2' excel file
- You probably notice the first 4 columns contain exactly the same information as in the conditions file in Task 1 (i.e. word, colour, congruent, corrAns)
- In addition, in this 'conditions2' file, we need an extra column 'img_path' to record where the image files are located



A bit more info. about specifying the path of an image



For example, for the image **red-blue.jpg** (which is the word 'RED' coloured in blue), its path should be written like this in the conditions file:

img/red-blue.png

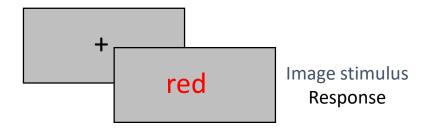
('img' folder is on the same level as your programme file and you will need to specify where your image is located ONLY from this level)

*You don't need to write out its full path (e.g. C:\Username\Desktop\WS3_sempriming\...) because PsychoPy will automatically fill this out for you

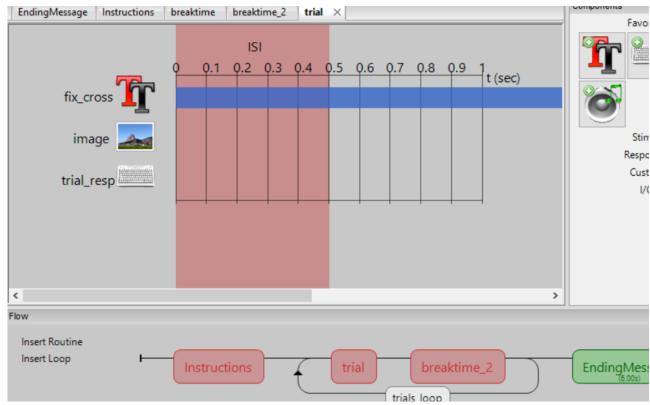
Now, open the 'try2_stroop.psyexp' programme file (builder view) in the folder 'Ex2_stroop_task-imgver'.

The main trials

Creating the main trials:

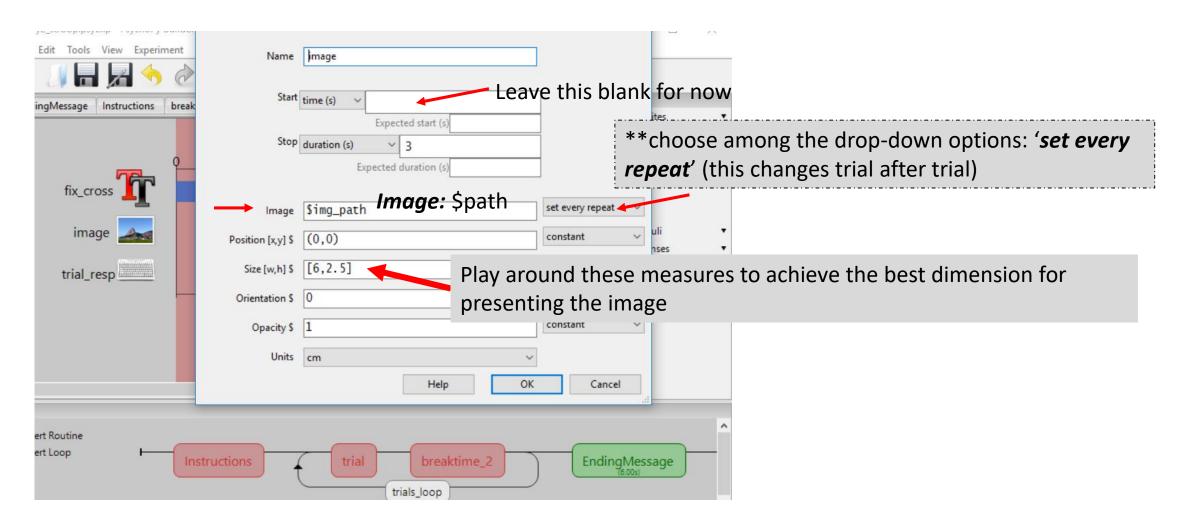


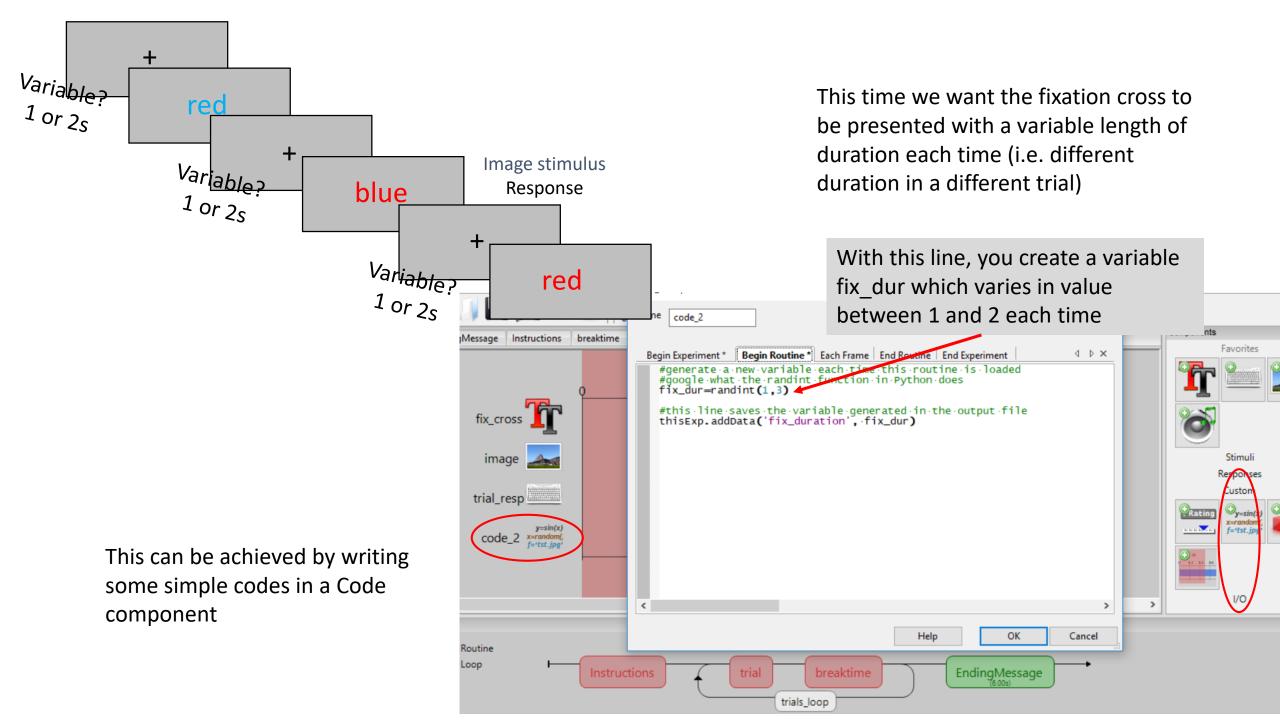
How this would be represented in PsychoPy:

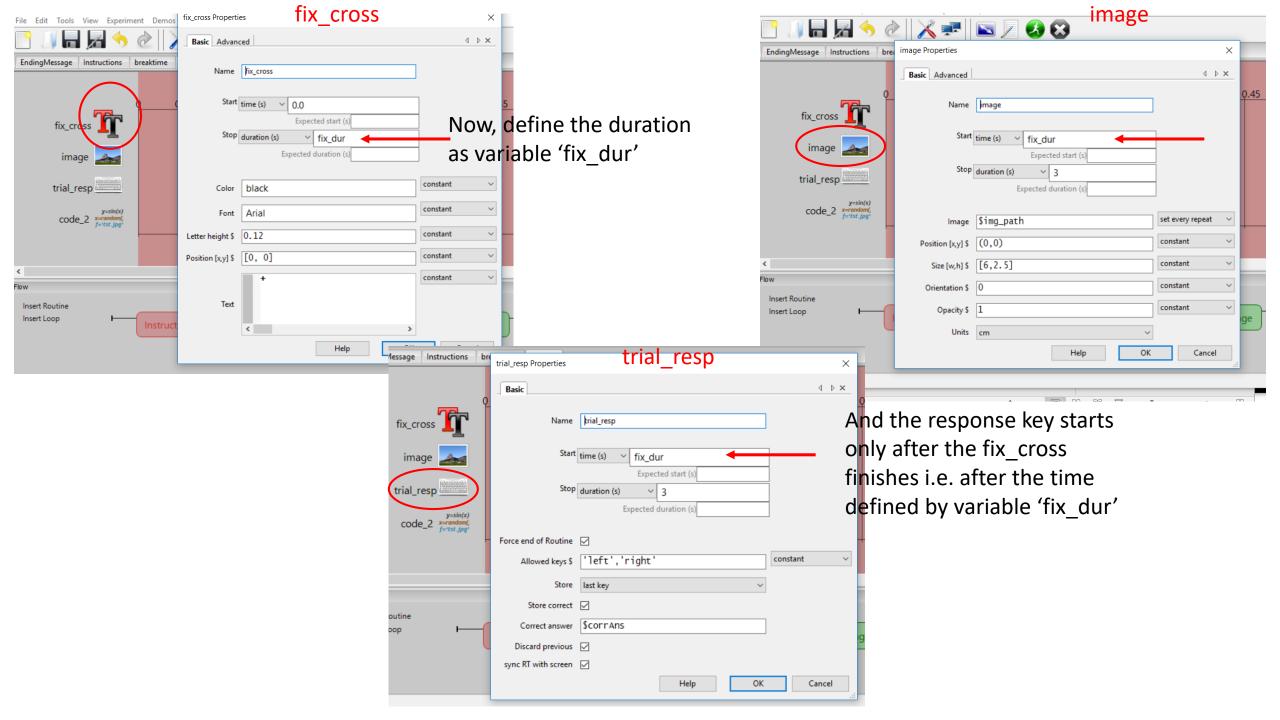


The main trials: Target image

Update the fields in Image Properties as follows





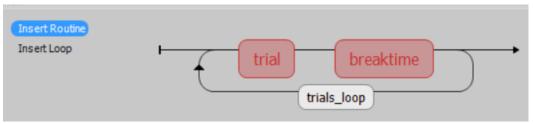


The main trials: Loops

Just similar to the previous example, Task 1

Between trials: give me a break!

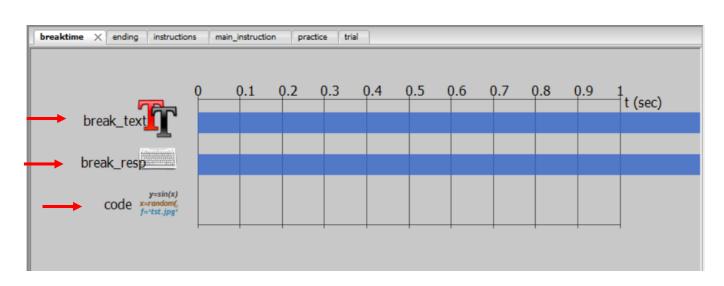
Inserting breaks between trials



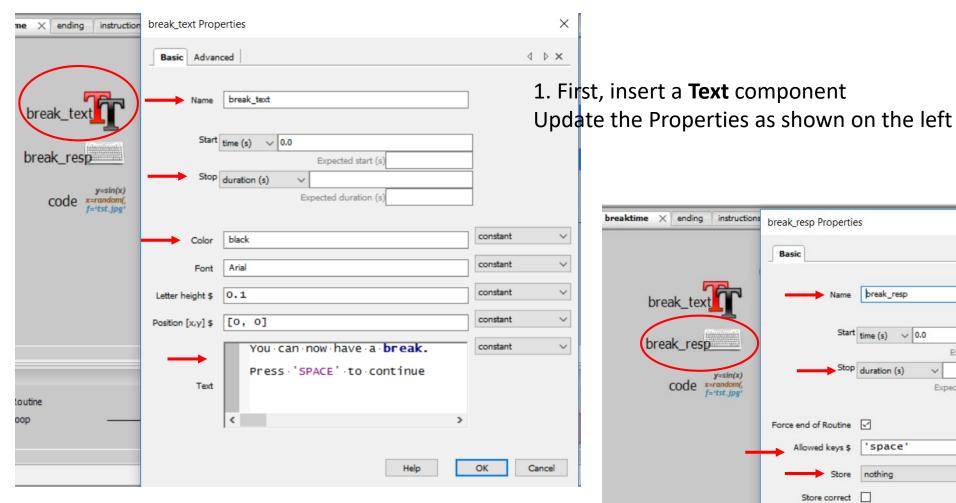
- Introducing breaks among trials = splitting the trials into various parts
- You will need to create a new routine and perhaps name it 'breaktime'. This 'breaktime' routine should also be wrapped around inside the trials loop.

- Click Insert Routine > (new)
- Type 'breaktime'
- Place it after trial routine and make sure it is wrapped within the loop

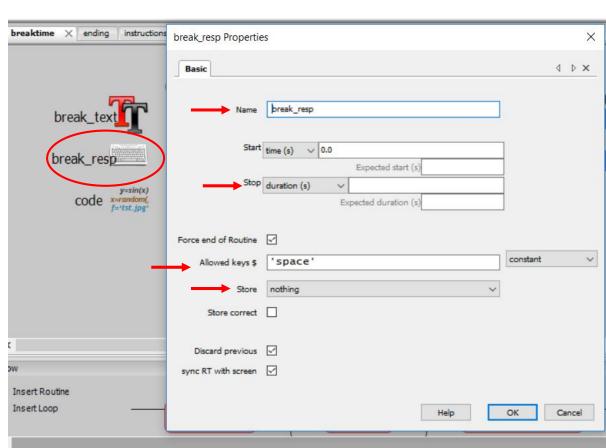
Inside the breaktime routine, you will need these components



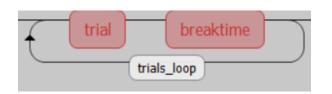
Breaks

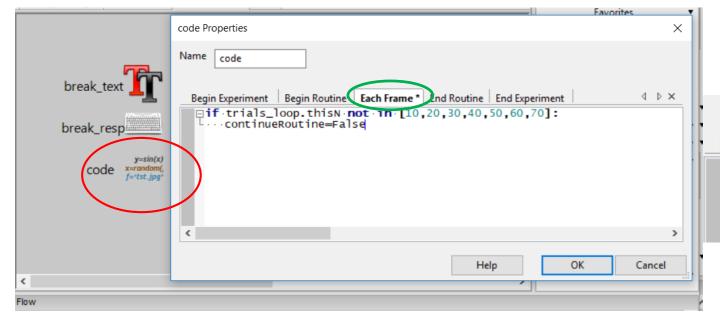


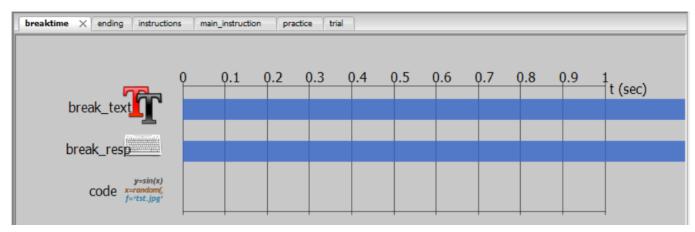
2. Then, use a Keyboard component so that the participant can respond to restart the experiment at their own pace
Update the Properties as shown on the right



Breaks

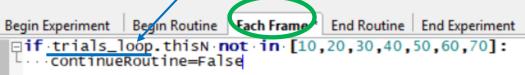






3. Finally, you need to use a 'code' component On 'Each Frame' tab, type these codes:

Make sure this part here is exactly the same as the name of the loop (i.e. trials_loop) you've created



We will have in total 80 trials (i.e. 8 items x 10 repetitions).

Here, we want to introduce seven breaks (after each 10 trials)

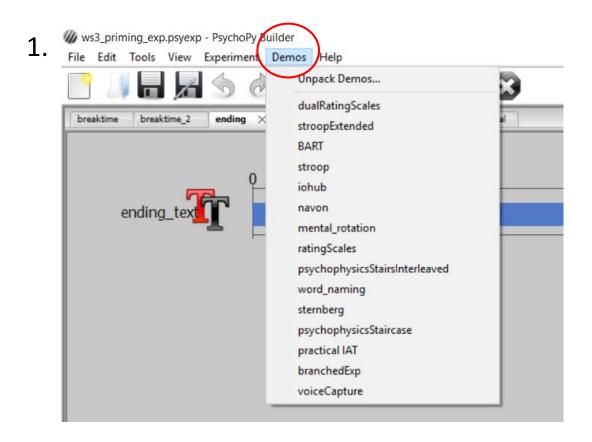
At the end, your 'breaktime' routine panel should look like this.

Also, it's important to place the **code** component at the very bottom among all

Now test your programme!



Other resources



- 2. Official website:
- http://www.psychopy.org/
- 3. Forum:
- https://discourse.psychopy.org/
- 4. Google!

PsychoPy Online

https://www.psychopy.org/online/fromBuilder.html

Sync your files with Pavlovia.org

https://www.pavlovia.org/