Daten adet

auction

Real effort tas

Part VIII

Advanced programming examples

Advanced programming examples

Dutch auction – fully graphical version the background the graphical clock other elements

Exercise: graphical version of an English auction

A real effort task: pick the right color background main stage

Dutch auction

exercise: English

Advanced programming examples

Example: dutch_auction_advanced.ztt



Dutch auction

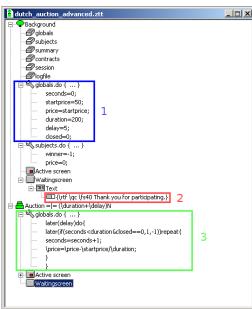
Dutch auction

the background the graphical

clock

other element

exercise: English



Dutch auction

the background

the graphical clock

other elemen

Exercise: English auction

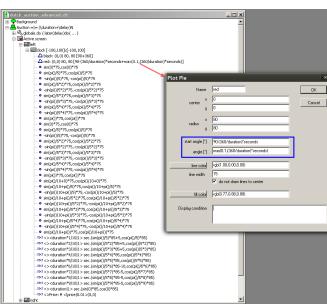
Real effort task

1. define the **global variables**

2. set the message for the waiting screen

- 3. let the clock run, using
 - the later()do statement
 - and the later()repeat statement

Dutch auction - the graphical clock I



Advanced programming examples

Dutch auction

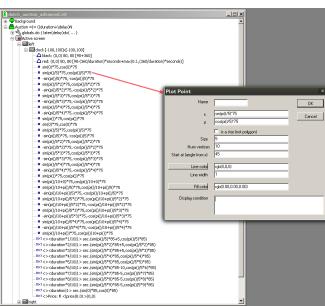
the background

the graphical clock

other elements

xercise: English uction

Dutch auction - the graphical clock II



Advanced programming examples

Dutch auction

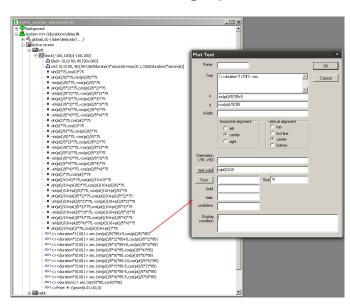
the background

the graphical

other elements

exercise: English action

Dutch auction - the graphical clock III



Advanced programming examples

Dutch auction

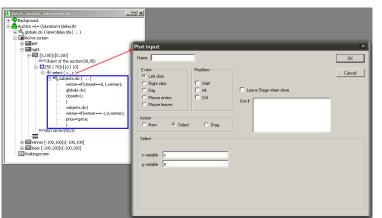
the background

the graphical clock

other elements

exercise: English nuction

- 1. Transform a Rectangle in a button, by adding a plot input.
- 2. Add a program to trigger the consequences of the subject's action.



Dutch auction

the graphical clock

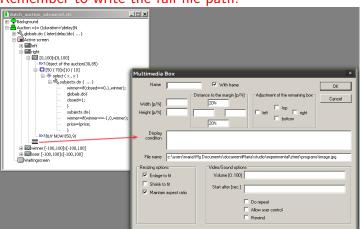
other elements

Exercise: English auction

Dutch auction - the figure

Use a Multimedia box to insert the picture of the object of the auction.

Remember to write the full file path.



Dutch auction

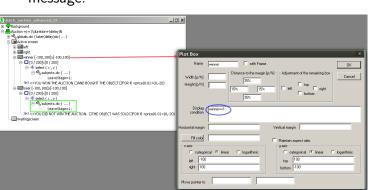
the background

the graphical clock

other elements

Exercise: English auction

- Use the Display condition to show different messages to the winner of the auction and to the other subjects.
- With a program within a plot input, you let the subjects leave the stage when they click on the final message.



Dutch auction the background

clock

other elements

Exercise: English auction

Exercise: English auction



solution: english_auction_advanced.ztt

Advanced programming examples

Dutch auction

Exercise: English auction

(Car Chort tas



1. price **increases** in time

2. subject's action: leave the auction

3. **plot** on the right, showing the number of remaining participants, and the time when each of the others left the auction ⇒ how to implement it?

Dutch auction

Exercise: English auction

Exercise: what changes?

1. price **increases** in time

Dutch auction

Exercise: English auction

Real effort tasl

2. subject's action: **leave** the auction

- 3. plot on the right, showing the number of remaining participants, and the time when each of the others left the auction ⇒ how to implement it? Suggestions:
 - save the number of remaining subjects at each point in time in a user defined table or in the contracts table
 - plot the content of this table using a graph, which is one of the plot items



The task

- 1. correctly answer as many questions as possible
- 2. in a given time interval (60 seconds)

Two different questions:

- 1. click on the color of the word written on the screen
- 2. click on the color corresponding to the word written on the screen

To **answer**, the subject must click on one of eight alternative colors, presented in random order on the screen.

Example: Colors.ztt

Dutch auction

Exercise: English auction

Real effort task background main stage



Remaining time: 55.30 seconds. click on the color named below **BLACK**

Dutch auction

Exercise: English auction

Real effort task background main stage

Remaining time: 47.80 seconds. click on the color of the word written below

Dutch auction

Exercise: English auction

Real effort task background main stage

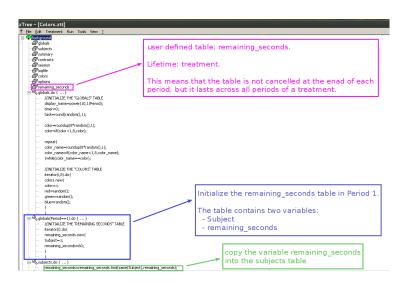
1. different timer for Remaining time: 47.80 seconds. different subjects click on the color of the word written below 2. two alternative tasks 3. options in random order 4. randomization of the color, and of the color's name.

Dutch auction

Exercise: English auction

Real effort task background

Remaining seconds



Dutch auction

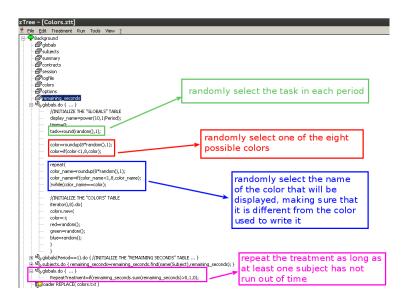
exercise: English

eal effort task

background

nain stage

Randomize the task



Dutch auction

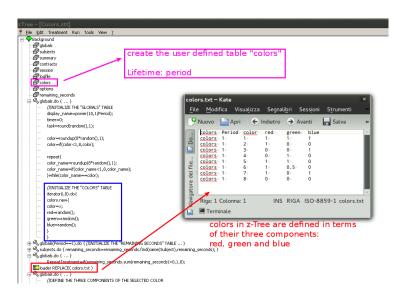
Exercise: English auction

Real effort task

background

nam stage

Define the colors



Dutch auction

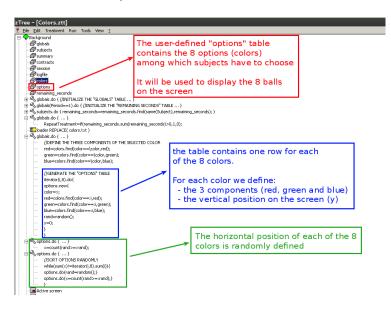
exercise: Englise auction

Real effort task

background

nain stage

Define the options



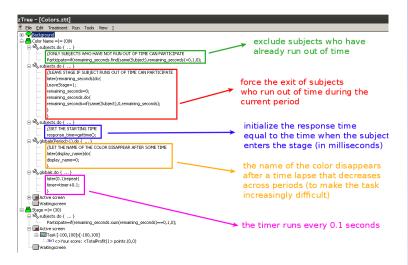
Dutch auction

exercise: English

real effort task

background

Programs

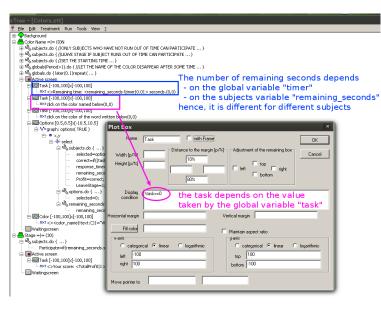


Dutch auction

iction

eal effort ta

Information to be displayed



Dutch auction

auction

Real effort task

Subjects' actions

```
⊞ 

Background
- Color Name - I - (0)01
                                                                                        the options are displayed by means of a graph
   🖟 🔍 subjects.do ( //ONLY SUBJECTS WHO HAVE NOT RUN OUT OF TIME CAN PARTICIPATE ... )
   🗄 🔍 subjects.do { //LEAVE STAGE IF SUBJECT RUNS OUT OF TIME CAN PARTICIPATE ... }
                                                                                       , which contains a point for each element of the
  # Subjects.do ( //SET THE STARTING TIME ... )
   globals(Period>1).do { //LET THE NAME OF THE COLOR DISAPPEAR AFTER SOME TIME ... }
                                                                                        "options" table.
  Active screen
    ☐ Task [-100,100]x[-100,100]
                                                                                        when the subject clicks on
         LIDIT <> Remaining time: <remaining_seconds-\timer(0.01 > seconds.(0,0)
                                                                                        one of the options, the program
     ■ Task [-100,100]√[-100,100]
          TEXT click on the color named below(0.0)
                                                                                          - checks if the answer is correct
     ⊞  Task [-100,100]x[-100,100]
                                                                                          - force the subject to leave the stage
     □ Soptions [0.5,8.5]x[-10.5,10.5]
                                                                                          - updates the number of remaining seconds
        FI-V*graph; options( TRUE )
           À- 0 x.v.
              in All subjects do ( ... )
                        selected-entions find(v==round(selected 1) color):
                        correct=f((task==05selected==\color name))(task==15selected==\color),1.0);

    response time=gettime()-response time;

                    remaining seconds-remaining seconds-response time:
                     LeaveStage=1:
                 - A ontions do ( ... )
                    - calartari-0:
                 remaining seconds do ( ... )
                    remaining seconds=subjects.find(same(Subject),remaining seconds):
         Lited <> <color name | text: [] = "WHITE"; [] z= "RED"; [] 3= "BLUE"; [] 4= "GREEN"; [] 5= "YELLOW"; [] 6= "ORANGE"; [] 7= "VIOLET"; [] 8= "BLACK"; >(0,0)
    Waltingscreen
 A Stage = |= (30)
   Fig. subjects.do { ... }
         Participate=if(remaining_seconds.sum(remaining_seconds)==0,1,0);
   Active screen
     □ Task (-100.100%(-100.100)
         IDCT <>Your score: <TotalProfit[1> points.(0.0)
    Waltingscreen
```

Dutch auction

kercise: Engi iction

Real effort task