

A Very Brief Introduction to PsyToolkit

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#2 | **THE WORD LAB**
SESSIONS

www.talktothewordlab.com/sessions

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- 2. How do I get started?

Setting Up an LDT

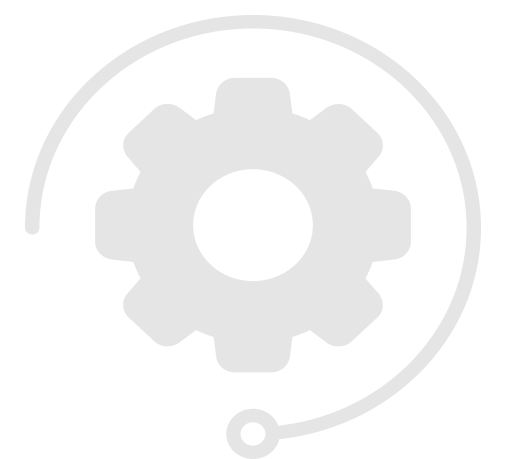
- 5. Stimuli & Tables
- 6. Other parameters

WHAT IS PSYTOOLKIT?

**A toolkit for programming and running cognitive-
psychological experiments and surveys**

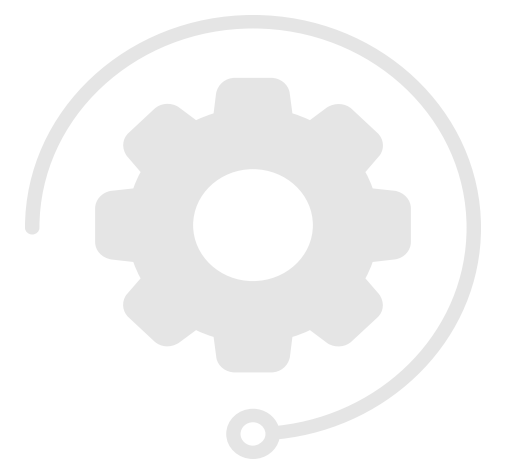
- Browser-based + Offline
- Non-commercial & Free
- Reliably hosted
- Comparable to E-prime (Kim et al., 2019)

(Stoet, 2010, 2017)



Getting Started

1. Go to: <https://www.psytoolkit.org/>
2. Click on **Web-based/Login**
3. **Sign up** to create your account
3. Password sent by email
4. **Sign in** to start your first experiment!



Version 3.1.1

PsyToolkit Server Login

https://www.psytoolkit.org/c/3.1.1/

PsyToolkit on the web

Personal

- Login
- Register new account
- Forgot password

General

- About
- Term & Conditions
- Help
- PsyToolkit main page

Follow PsyToolkit on Twitter for updates.

Login to your PsyToolkit account

email:

password:

Login

[Like 837](#) [Share](#)

Overview of the main new features of version 3.1.1

- Completely overhauled easy mode for survey creation
- Improved download of survey answers
- Easier way of dealing with SONA (new SONA support option in settings)
- Improved coding for bitmap and sound loading in experiments
- Option to create random letter number strings with **set** in surveys
- [Click here for detailed list of what is new](#)

How you can support PsyToolkit

- Follow [PsyToolkit on Twitter](#)
- Like PsyToolkit on Facebook (see like button above)
- [Donate via Paypal](#)

This is PsyToolkit version: 3.1.1 on www.psytoolkit.org | [Click here](#) for previous version 3.1.0

GETTING STARTED

1. Create a new **survey**
2. Create a new **experiment**
3. Get from **library**
4. Use a **shared** experiment

SETTING UP A SURVEY

PsyToolkit Server

https://www.psychtoolkit.org/c/3.1.1/main

Hello Sydelle!

General

- Introduction
- Settings
- Help
- Report a problem
- Logout

Create

- Create new experiment
- Create new survey
- Create table
- Get from library
- Get shares

Actions

- Delete
- Copy
- Rename
- Download
- Share

Edit experiments

- APL_LDT_test
- APL_LDT_treino
- test_idt
- ldt_treino_aval
- go-no-go
- ldt__1_
- Avallativos
- example

Edit surveys

- APL_LDT_REAL
- AvallativosLDT

Previously you used PsyToolkit version: 3.1.0. Now you use version 3.1.1. Make sure your experiments/surveys work with the current version. The version you worked with previously can still be logged in to, and old versions will be maintained for a long time. [Click here to go to version 3.1.0.](#)

Please [participate in the user survey in a new browser tab](#) (it takes no more than 10 minutes).

Did you know...

that you can automatically counterbalance the order of your blocks? [Read here how this works.](#)

Introduction to PsyToolkit-on-the-web

What it is

PsyToolkit is a software package to program and run psychological surveys and experiments, especially those common in cognitive experimental psychology.

[Video tutorial about setting up online questionnaire](#)
[Video tutorial about setting up experiment and embed it in online questionnaire](#)

What you can do

Through this website, you can do the following:

ANATOMY OF A SURVEY QUESTION

LABEL `l: examplequestion1`
TYPE `t: radio`
QUESTION `q: Which of the following foods do you like best?`
`- Rice`
`- Noodles`
`- Bread`
`- Potatoes` } OPTIONS

DON'T FORGET THE SPACE
BETWEEN THE DASH & YOUR
OPTIONS!

Easy Mode

The screenshot shows the PsyToolkit web interface. The browser address bar displays `https://www.psychtoolkit.org/c/3.1.1/newsurvey`. The page title is "Online survey mynewsurvey". A sidebar on the left contains navigation links: Introduction, Settings, Help, Report a problem, Logout, Create (with sub-links: Create new experiment, Create new survey, Create table, Get from library, Get shares), Actions (Delete, Copy, Rename, Download, Share), and Edit experiments (APL_LDT_test, APL_LDT_treino, test_ldt, ldt_treino_aval, go-no-go). The main content area features a text input field with the prompt "Enter/edit in the box below" and a green "easy mode" button. To the right of the input field are two blue buttons: "Scripting help tab" and "survey library tab". The input field contains the following text:

```
# check the large survey-library for ready-to-run examples you can  
# cut and paste here  
  
l: examplequestion1  
t: radio  
q: Which of the following foods do you like best?  
- Rice  
- Noodles  
- Bread  
- Potatoes  
  
l: examplequestion2  
t: check  
q: Select all of the following drinks did you had today?  
- Water  
- Orange juice  
- Tea  
- Coffee
```

Here's what it looks like in easy mode:

https://www.psychtoolkit.org/e/5.1.1/questionmaker

Please participate in the user survey, in a new browser tab (it takes no more than 10 minutes).

Easy mode overview Regular overview Scripting help tab survey library tab

Survey mynewsurvey

Click on one of the links to edit a question. Or click on a + to insert a new question after the one at that position. Click S to see the PsyToolkit script for the question

| Label (l:) | type (t:) | # | Question (q:) | S | + |
|------------------|-----------|---|---|---|---|
| examplequestion1 | radio | 4 | Which of the following foods do you like best? | S | + |
| examplequestion2 | check | 4 | Select all of the following drinks did you had today? | S | + |

+
Define a Likert scale

SETTING UP AN EXPERIMENT

PsyToolkit on the web

Hello Sydelle!

Please [participate in the user survey in a new browser tab](#) (it takes no more than 10 minutes)

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Edit experiments

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- APL_LDT_treino
- test_idt
- Idt_treino_aval
- go-no-go
- Idt__1_
- Avaliativos
- example

Edit surveys

- mynewsurvey
- APL_LDT_REAL
- AvaliativosLDT

Create a new experiment

Note: If you want to do an online questionnaire, you need to create an online survey.

There are three ways of creating a new experiment: [?](#)

- 1) You just give a name, and an 'empty' experiment will be created.
- 2) You upload a PsyToolkit experiment file (must be *zip*, no other format will work).
- 3) Get an experiment from the library (see link in menu on your left)

Method 1: Completely new experiment

Experiment name (spaces and special characters will become underscores):

Method 2: From a PsyToolkit experiment file (zip format)

Experiment name (spaces and special characters will become underscores):

PsyToolkit experiment file: No file chosen

Click to set the name of the experiment as specified on the uploaded file

UPLOADING AN EXPERIMENT FILE

1. Go to **PsyToolkit's Experiment Library**
2. Click on **Lexical Decision Task**
3. Download the **.zip file**
4. Upload to your account

ANATOMY OF AN LDT

BITMAPS: Image files

FONTS: Type & size

TABLE: Stimuli & Conditions

TASK: Experimental set-up

MESSAGE: Display instructions

BLOCK: Test/Training

```
bitmaps
. instructions1
. instructions2
. fixpoint

fonts
. arial 40

table treino
  "banheirinha" "i"      1
  "banheirazinha" "z"   1
  "goteirinha" "i"      1
  "goteirazinha" "z"   1
  "lembrancinha" "i"    1
  "lembrançazinha" "z" 1
  "guerrilinha" "i"     1
  "guerrilazinha" "z"   1

task lexical
  table treino
  keys a 1
  show bitmap fixpoint
  delay 500
  clear 1
  delay 500
  draw off
    show text @1 0 -25 255 255 255
  draw on
  readkey @3 5000
  clear 2
  if STATUS == CORRECT
    delay 500
  fi
  if STATUS != CORRECT
    delay 500
  fi
  save BLOCKNAME TABLEROW @1 @2 @3 RT STATUS

message instructions1
message instructions2

block training
  tasklist
    lexical 8 all_before_repeat
  end
```

COMPILING YOUR LDT

1. **Save** your code
2. Click on **Compile**
3. Click on **Run Experiment** or **Download**
for offline running

SURVEY + EXPERIMENT

1. Gather participant data
2. Run training block
3. Run test block
4. Post-experiment survey
5. Thank you screen

HELPFUL TIPS

1. Read the online documentation
2. Browse through the forum for help
3. Check your spaces!
4. Avoid using CAPS for naming things in your code
5. The learning curve is steep, but worth it!

P.S. Donate to PsyToolkit if you can!

REFERENCES

- Kim, J., Gabriel, U., & Gygax, P. (2019). **Testing the effectiveness of the Internet-based instrument PsyToolkit: A comparison between web-based (PsyToolkit) and lab-based (E-Prime 3.0) measurements of response choice and response time in a complex psycholinguistic task.** PLoS ONE, 14(9), 1–19.
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QUESTIONS?

Obrigada!

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