





Experimentos Linguísticos com a plataforma PCIBEX



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AULA 1

Panorama do Curso

- 1) O que é a plataforma PCIBEX?
- 2) Iniciação à plataforma PCIBEX.
- 3) Criando um script para experimento de Leitura Automonitorada.
- 4) Criando um repositório no GitHub.
- 5) Criando um script para um Teste Auditivo.
- 6) Criando um Teste de decisão lexical com imagens.

O que é a plataforma

PCIBEX?



A sigla PCIBEX

PC = PennController



lbex =
Internet Based
EXperiments





Plataforma Ibex Farm

- Criada originalmente por Alex Drummond.
- Permite rodar experimentos psicolinguísticos de forma remota, em navegadores da internet.
- Inicialmente criada para rodar dois tipos de experimento: leitura automonitorada e julgamento de aceitabilidade.
- Link: https://spellout.net/ibexfarm/



PennController for IBEX

• Extensão do IBEX desenvolvida e gerenciada por Jeremy Zehr e prof. Florian Schwarz na Universidade da Pensilvânia (Upenn).









PennController for IBEX

- Plataforma gratuita, versátil e amigável.
- Permite criar experimentos dinâmicos e interativos.
- Permite criar diferentes tipos de estímulos:
 - Escritos
 - Imagens
 - Aúdios
 - Vídeos
- O PennController é atualizado de tempos em tempos.



PennController for IBEX

- A plataforma usa JavaScript e HTML.
- Interface com códigos simplificados: não é necessário ter conhecimento de JavaScript para programar os experimentos.
- Compatível com: Google Chrome, Firefox, Internet Explorer, Safari e
 Opera.
- Os comandos dos experimentos são escritos na linguagem Python.



Python

- Linguagem de programação de alto nível.
- Permite escrever em linguagem de script.

conjunto de instruções para que uma função seja executada em determinado aplicativo.



Python

Um exemplo:

```
hello.py x

#!/Library/Frameworks/Python.framework/Versions/3.7/bin/python3

print('Hello World')
print(5 + 4)
name = 'John'
print(name)

Line 7, Column 1

Tab Size: 4
```

Imagem retirada de Mackie, 2019



Experimentos no PCIBEX

- Vejamos alguns exemplos de experimentos feitos no PCIBEX:
 - Leitura Automonitorada

https://expt.pcibex.net/ibexexps/minicursolec/leitura_automonitorada/experiment.html

Teste Auditivo

https://expt.pcibex.net/ibexexps/minicursotesteauditivo/Teste_Auditivo/experiment.html

Teste de Imagens

https://expt.pcibex.net/ibexexps/asilva91/tuto/experiment.html

Iniciação à plataforma

PCIBEX



PCIBEX

A página incial: https://www.pcibex.net/

PpcIBEX Experiment Farm (new) Experiment Farm (expt) Documentation

PennController for IBEX

As of February 2021,

the PCIbex website has moved to:

doc.pcibex.net

the new PCIbex Farm is at:

→ farm.pcibex.net

Learn more

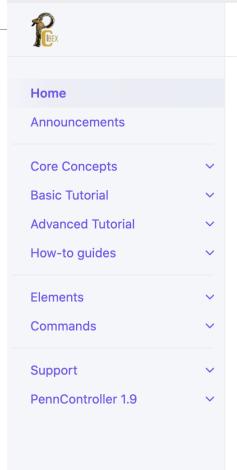
(Note: new account setup required! Existing accounts and projects from expt.pcibex.net are not automatically transferred, but will remain accessible at the old url)





PCIBEX: Documentation

The new PCIbex Farm is here! Be sure to check out all of its new features and changes.



PennController for IBEX

A free, open-source, versatile, and user-friendly online experiment builder.

TRY A DEMO

Q Search PCIbex Documentation

GET STARTED

TAKE THE TUTORIAL

Go to the PCIbex Farm

About

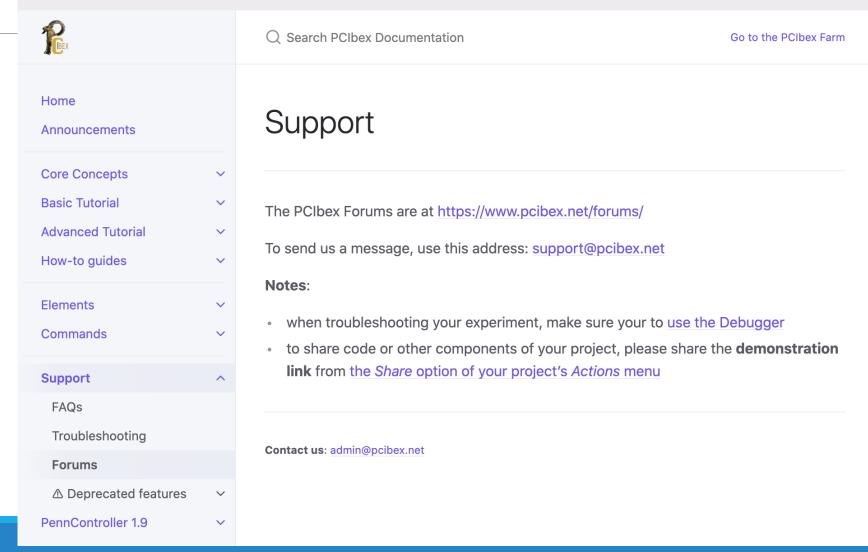
PennController for Internet Based Experiments ("PennController" or "PClbex" for short) provides the tools to build and run online experiments, from familiar paradigms like self-paced reading to completely custom-designed paradigms.

The PCIbex Farm's interface comes with many features to help you design and run your experiments, including:

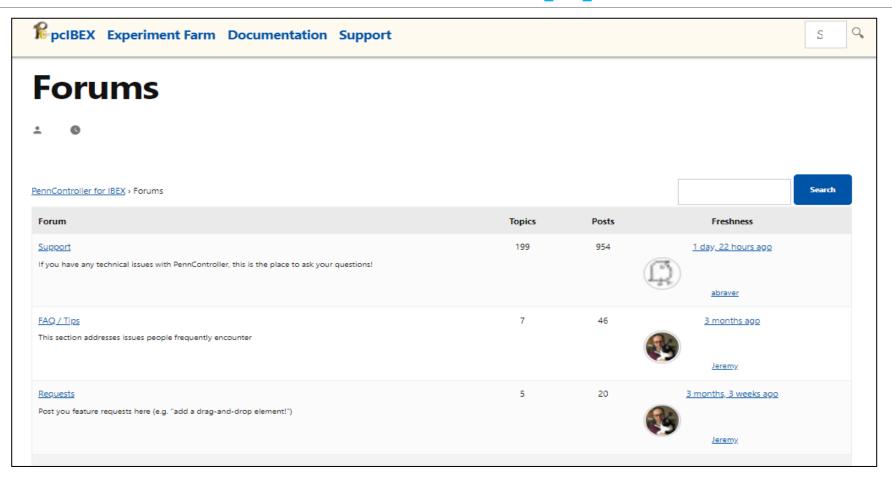
- a streamlined editor, with a preview window
- the possibility to share and copy projects in a single click (try it!)
- and many more



The new PClbex Farm is here! Be sure to check out all of its new features and changes.

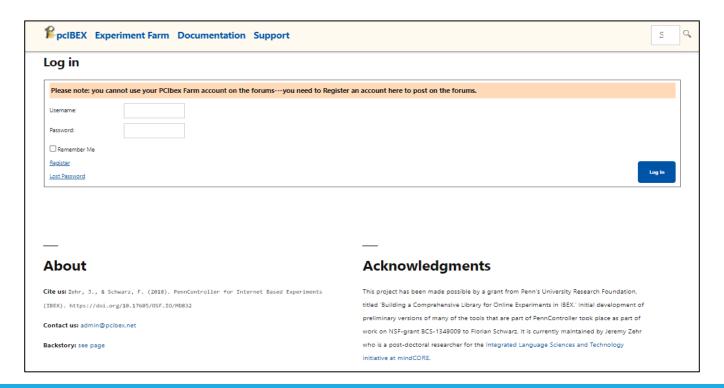








• Observação: é preciso criar conta tanto para elaborar experimentos quanto para postar no fórum.





Você também pode mandar e-mails para tirar dúvidas:

admin@pcibex.net



PCIBEX: Experiment Farm



Reopen last unsaved experiment

Start a new project

✓ Empty project
✓ Masked Priming
✓ Stroop Task
✓ Self-Paced Reading
✓ Covered Box Experiment
✓ Mouse Tracking
✓ MediaRecorder
✓ EyeTracker

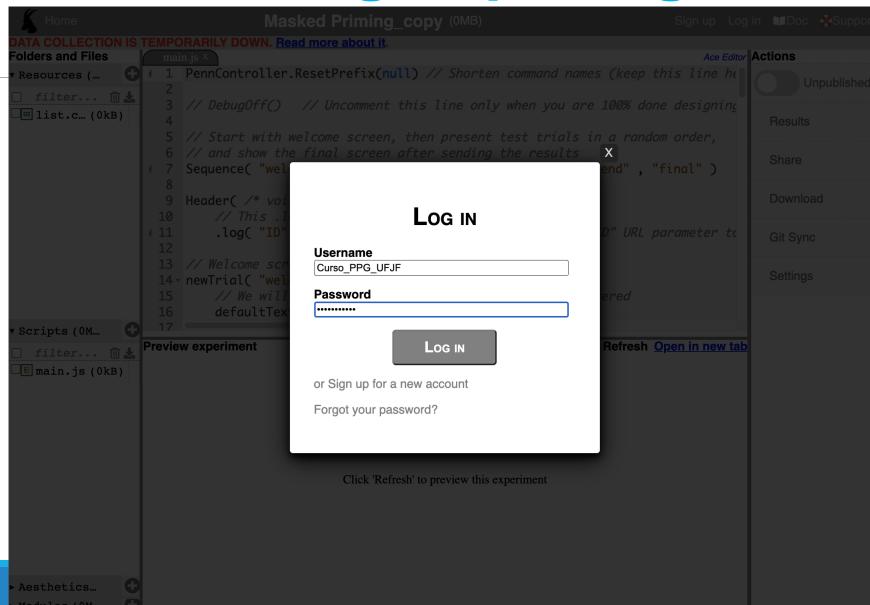


PCIBEX: Sign up / Login

Home	Masked Priming_copy (0MB)	Sign up Log it	n II Doc S Support
	TEMPORARILY DOWN. Read more about it.		
Folders and Files	main.js x	Ace Editor	ctions
▼ Resources (i 1 PennController.ResetPrefix(null) // Shorten command names		
☐ filter ÎÎ 🕹	3 // DebugOff() // Uncomment this line only when you are 4 5 // Start with 6 // and show th 7 Sequence("wel 8 9 Header(/* voi 10 // This .1 11 .log("ID" 12 13 // Welcome scr 14 newTrial("wel 15 // We will 15	X a random order, end" , "final") D" URL parameter to	
▼ Scripts (0M filter main.js (0kB) Aesthetics	Preview experiment Password confirmation Email address why Sign up or Log in with an existing account	Refresh Open in new tab	
Modules (OM			



PCIBEX: Sign up / Login





Exemplos de experimentos/ scripts



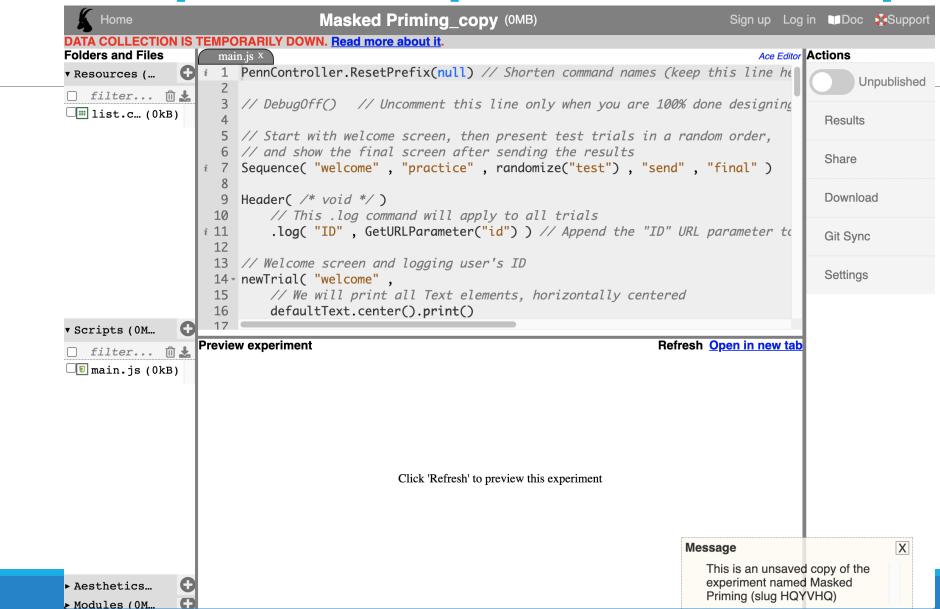
Reopen last unsaved experiment

Start a new project

☑ Empty project
☑ Masked Priming
△ Stroop Task
A prime word is shown for 40-50ms before being replaced with a text that participants report as word or non-word
☑ Self-Paced Reading
☑ Covered Box Experiment
☑ MediaRecorder
☑ EyeTracker



Exemplos de experimentos/ scripts





Criando um experimento



Reopen last unsaved experiment

Your projects

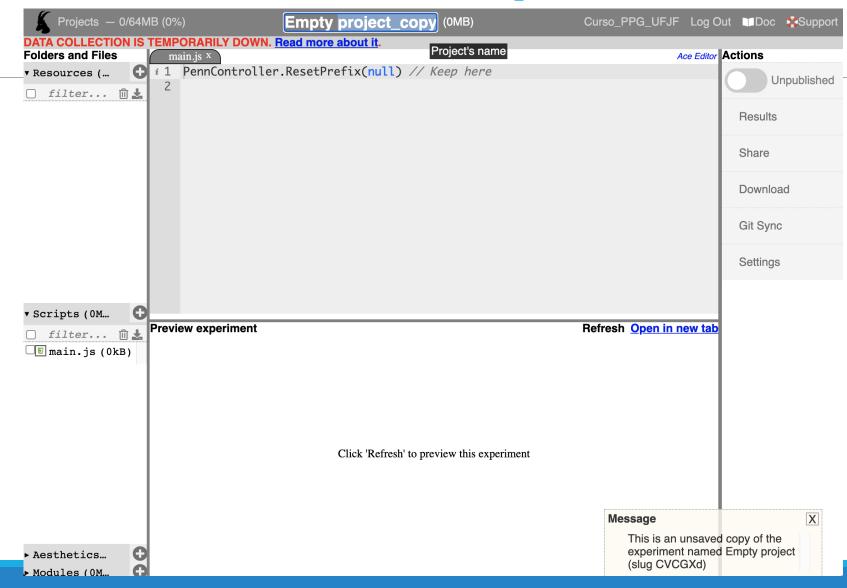
Name must contain...

Start a new project

Empty project
☑ Masked Priming
☑ Stroop Task
Self-Paced Reading
✓ Mouse Tracking
✓ MediaRecorder
☑ EyeTracker



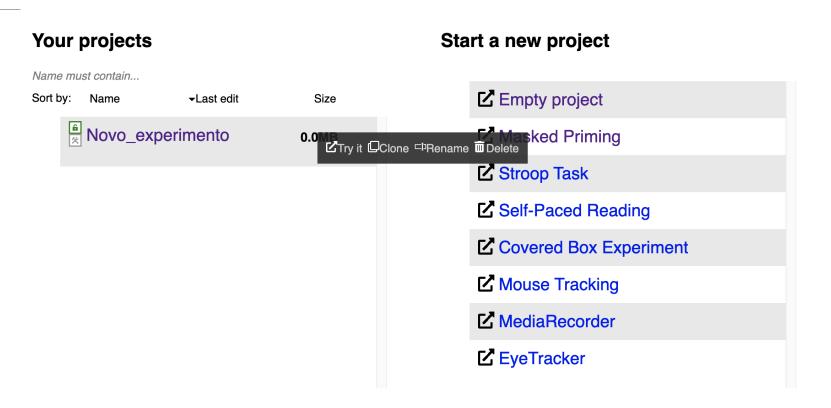
Criando um experimento



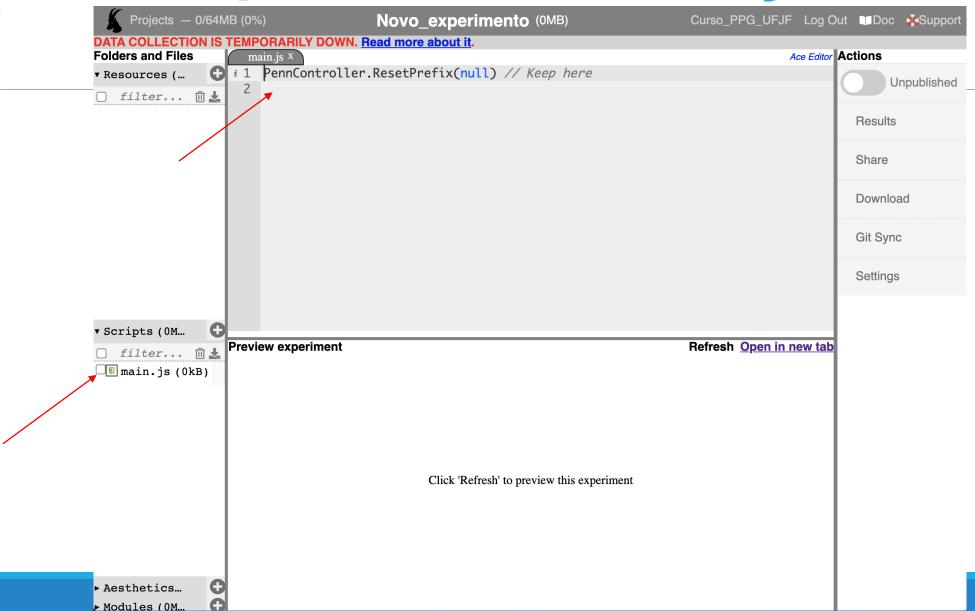


Criando um experimento

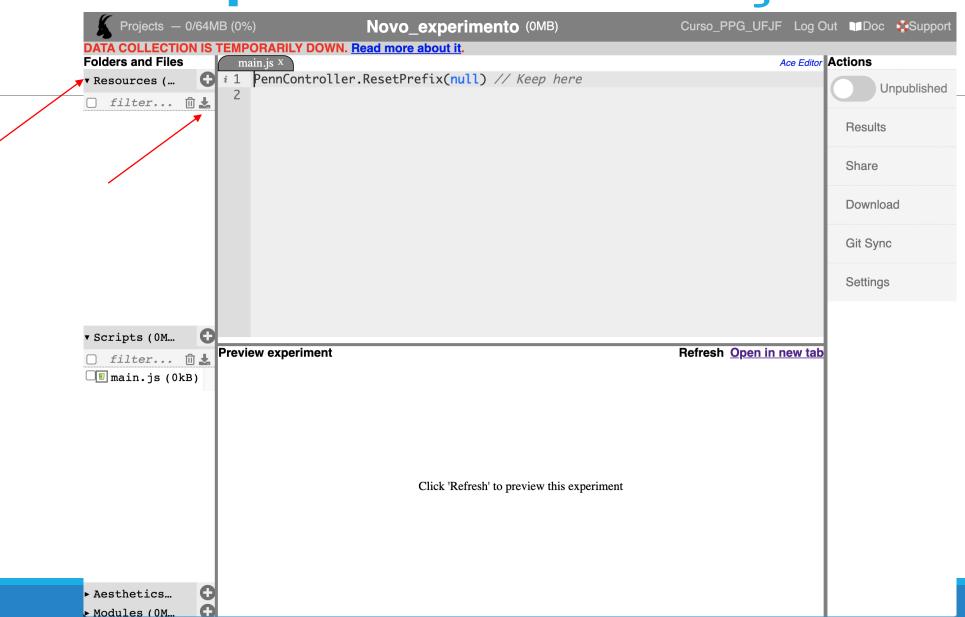








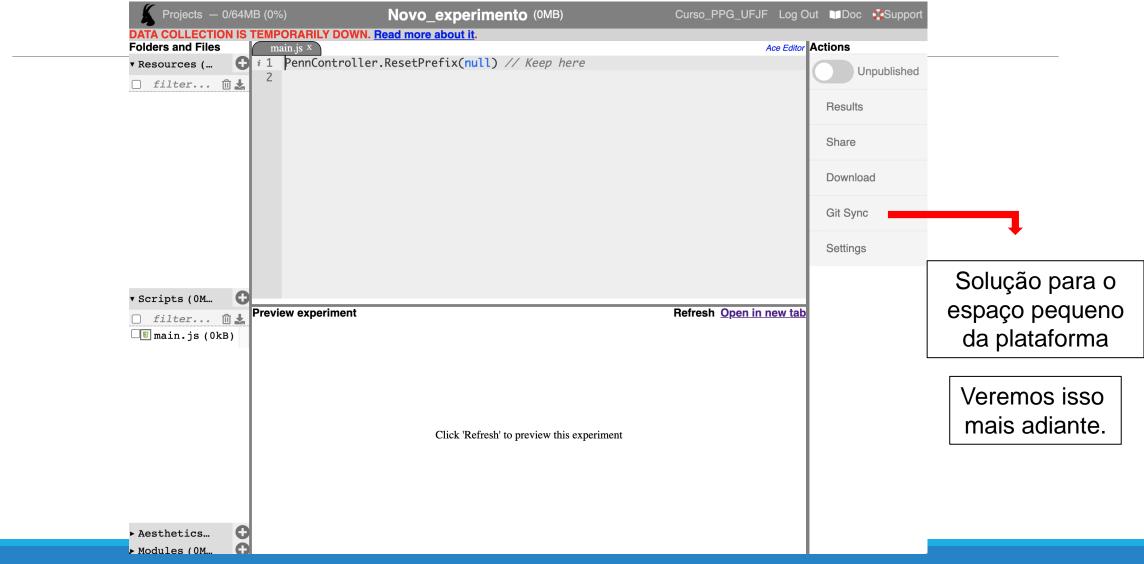




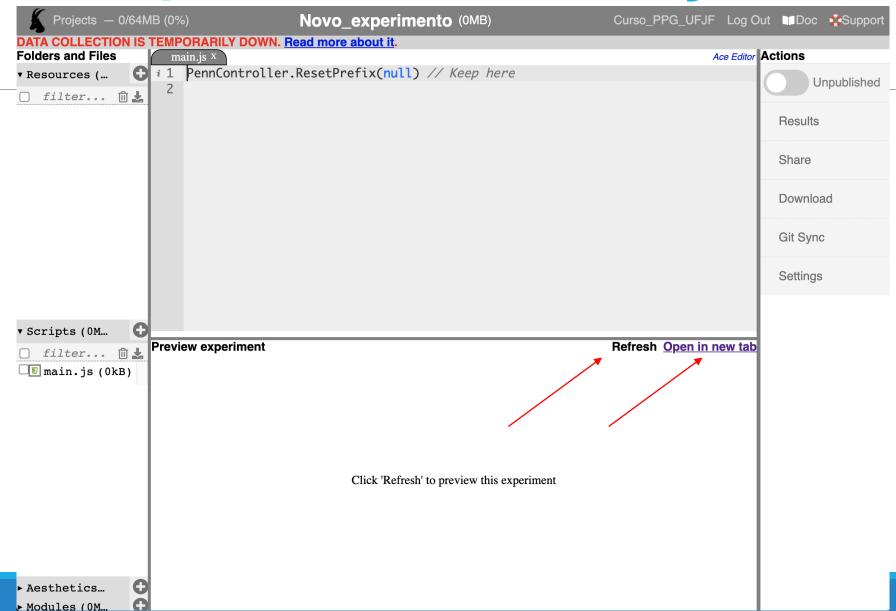




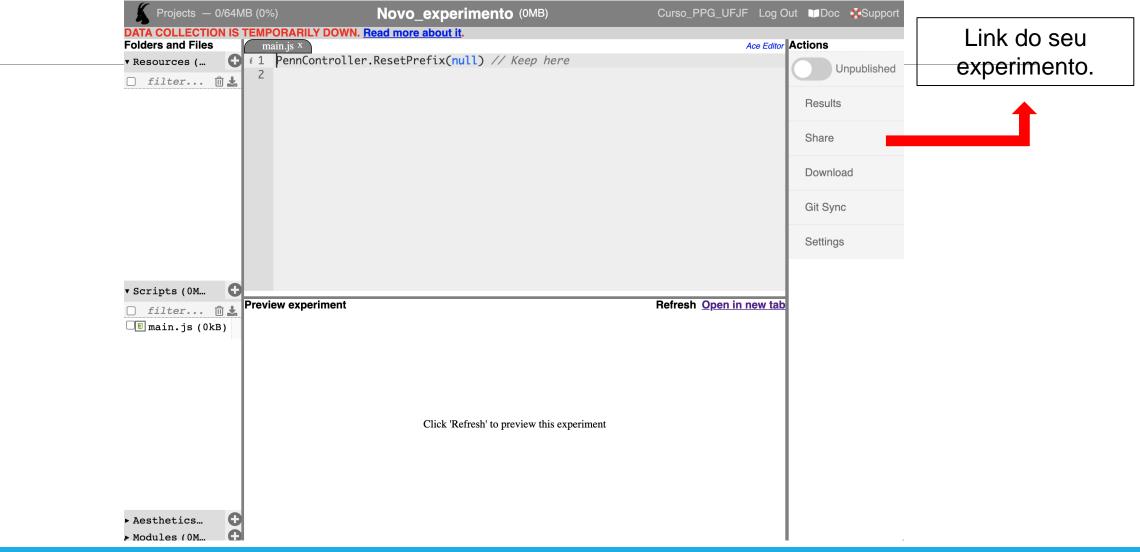




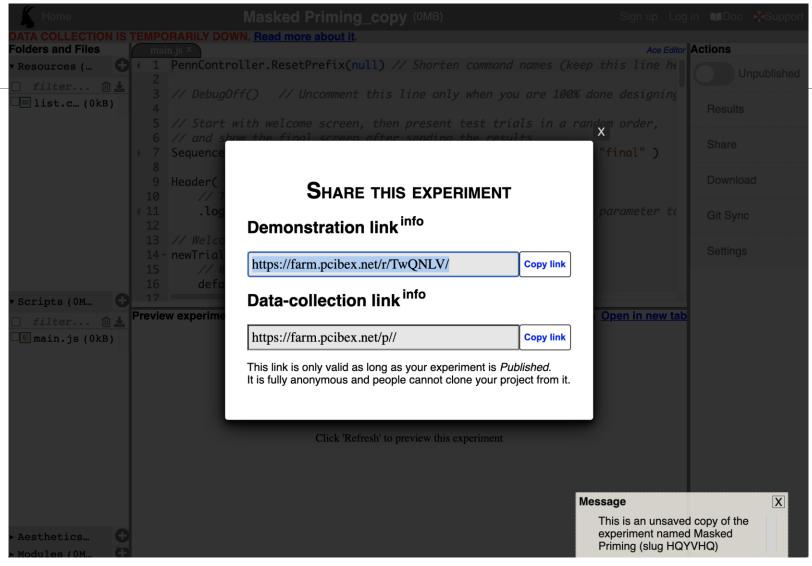










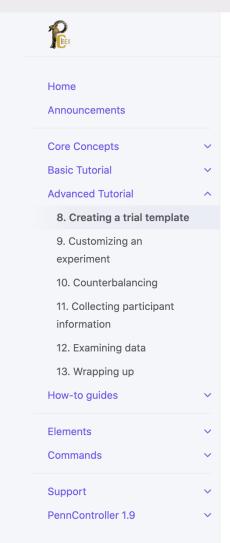


Link do seu experimento.



Criando uma tabela de itens

The new PCIbex Farm is here! Be sure to check out all of its new features and changes.



Tables are CSV (comma separated value) files that are either imported into an experiment page's **Resources** folder, or defined within an experiment script.

8.2.1. Using a table

We'll use the items.csv table, which was included during the set up of the BasicTutorial experiment.

Note: You may need to scroll to the right to see all the columns.

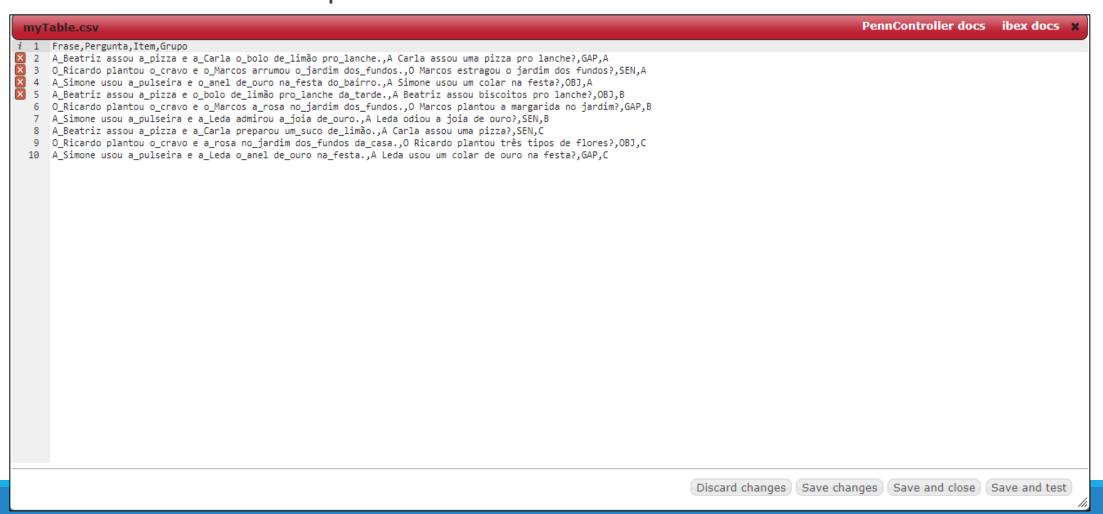
group	item	sentence	inflection
Α	1	The fish swim in a tank which is perfectly round	plural
Α	2	The deer runs in a wood which is extremely dense	singular
A	3	The sheep roam in a pen which is strikingly blue	plural
Α	4	The moose walks in a park which is visibly new	singular
В	1	The fish swims in a tank which is perfectly square	singular
В	2	The deer run in a wood which is extremely sparse	plural
В	3	The sheep roams in a pen which is strikingly red	singular
В	4	The moose walk in a park which is visibly old	plural

If a table contains a column named group or row, PennController will automatically alternate which group of items is run! In this case, there are two groups, so every odd-numbered participant will only see the 4 items from the A group, and every even-numbered participant will only see the 4 items from the B group (or vice versa).



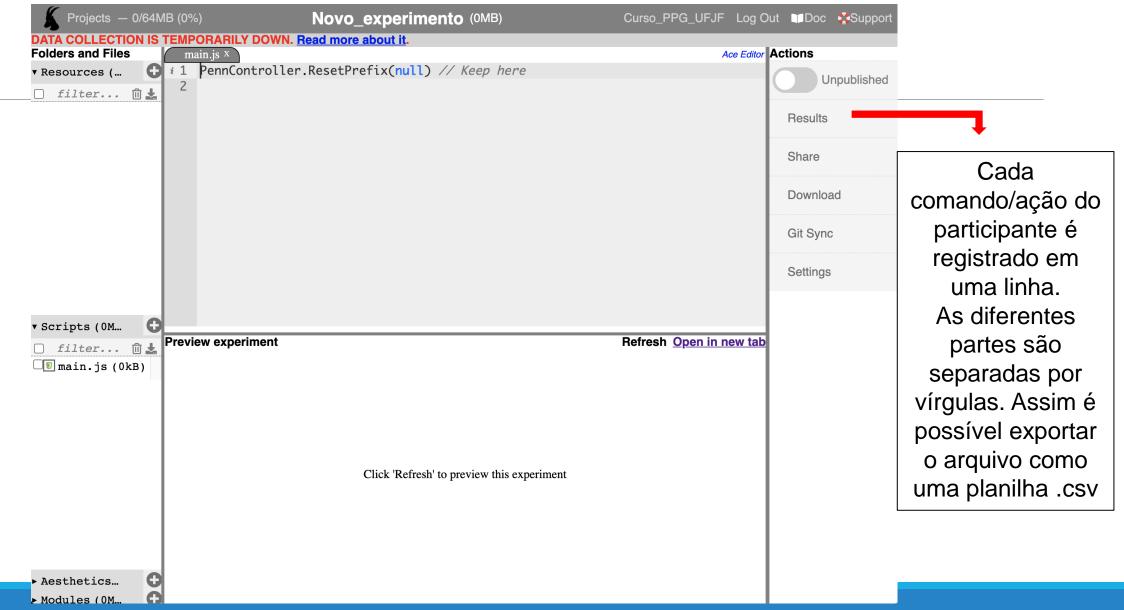
itens.csv

 Um comando pré-estabelecido no script apontará para cada linha da tabela ao rodar o experimento.





Os resultados





Recados

- Para as próximas aulas:
 - Lembrete: guardem os dados da conta que você criou no PCIBEX Farm.
 - Dica para as Aulas 2, 3 e 4: assistir a aula em outro dispositivo (celular, tablet) e usar o computador para mexer na plataforma.
 - Usaremos na Aula 2 os arquivos da pasta "Aula 2/ Leitura Automonitorada"
 - Certifiquem-se de baixar os materiais no repositório do GitHub:
 https://github.com/julia-greco/Curso_Livre_PClbex

Referências

HUNT, J. A Beginners Guide to Python 3 Programming. Brighton, UK: Springer Publishing Company, 2019.

ZEHR, J.; SCHWARZ, F. PennController for Internet Based Experiments (IBEX). 2018. < https://doi.org/10.17605/OSF.IO/MD832 > Acesso em 25 de abril de 2021.

Por hoje é só!

