

WORKSHOP FOR ONLINE EXPERIMENTS

Go to <u>www.jatos.org</u> and download jatos-2.2.1-beta_[mac/win/linux]_java.zip!



BEFORE WE START: WHO WE ARE

ELISA





JATOS (JUST ANOTHER TOOL FOR ONLINE STUDIES)

ONLINE EXPERIMENTS WORKSHOP

KRISTIAN

COGNITIVE SCIENCE ╋

PROGRAMMING



BEFORE WE START: WHO ARE YOU?

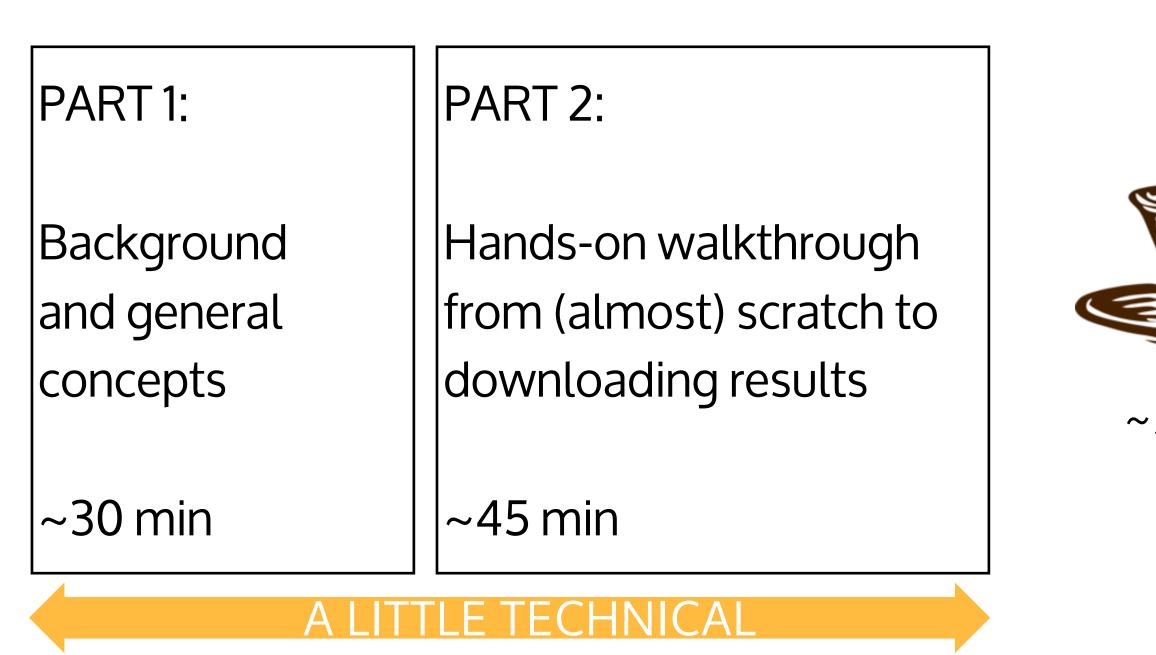


ONLINE EXPERIMENTS WORKSHOP

PREVIOUS CODING EXPERIENCE?

ANYTHING SPECIFIC THAT YOU'D LIKE TO GO THROUGH?

PLAN FOR TODAY



ONLINE EXPERIMENTS WORKSHOP



~30 min

PART 3:

Hands-on Writing JavaScripts from scratch

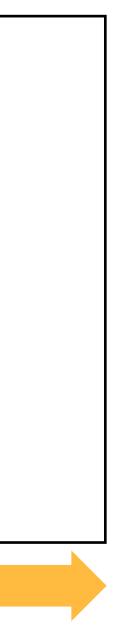
MORE TECHNICAL

PART 4:

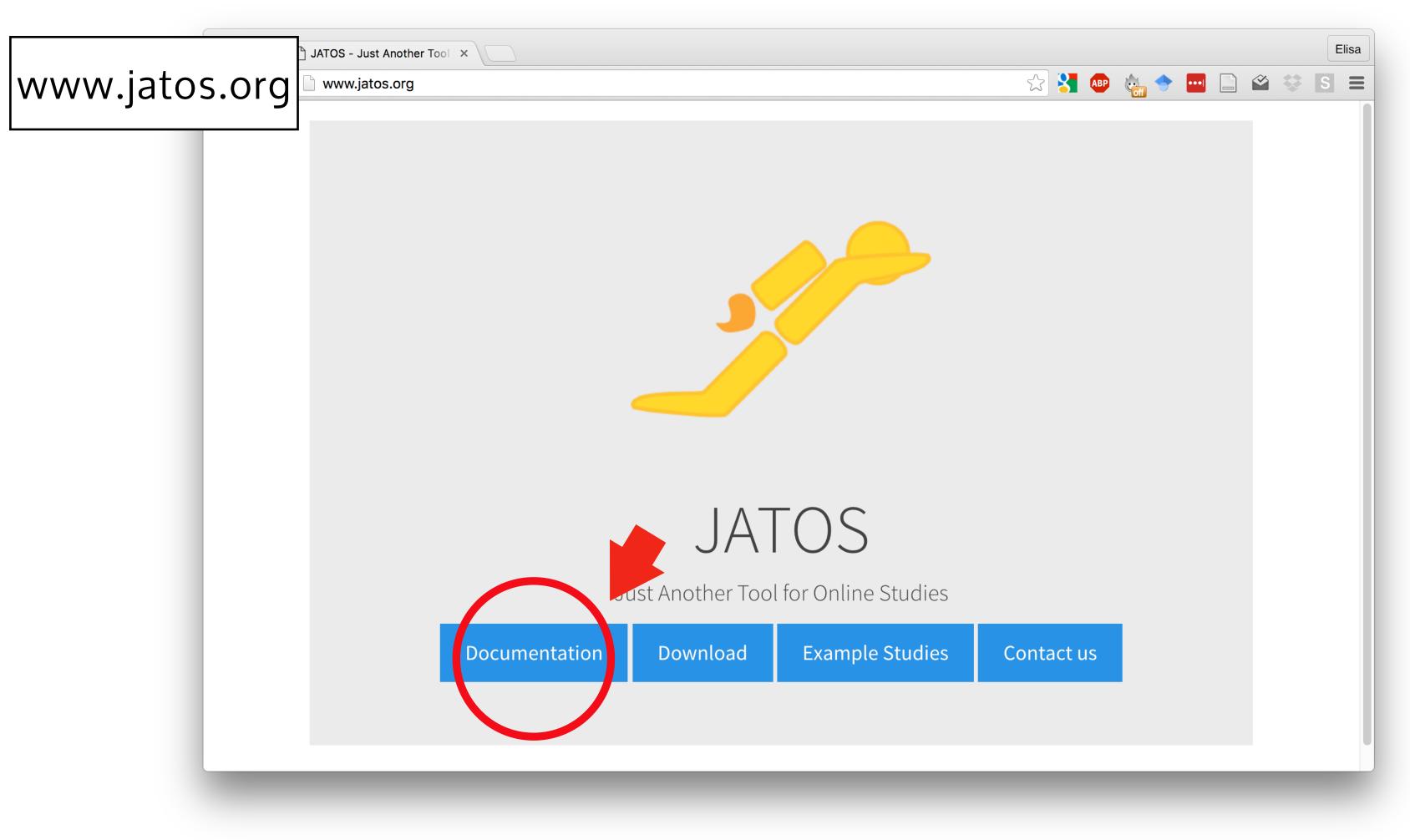
Final notes on ethics and discussion

~90 min

~15 min



ALL THIS (AND MORE!) IS DOCUMENTED





Part 1: a bit of background

ICONS DESIGNED BY FREEPIK (WWW.FREEPIK.COM)



WITH ONLINE EXPERIMENTS YOU CAN:

COLLECT MORE DATA

ONLINE EXPERIMENTS WORKSHOP

(MUCH) FASTER



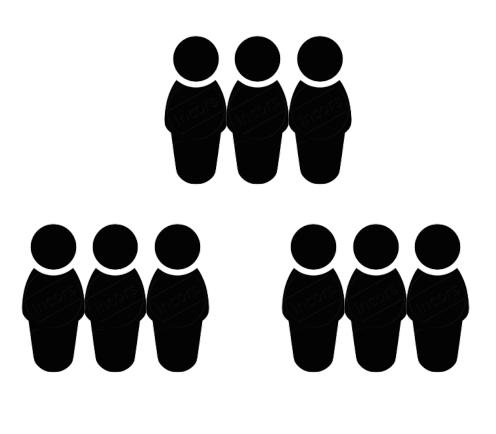




ONLINE TOOLS AVALABLE

WITH ONLINE EXPERIMENTS YOU CAN:

COLLECT MORE DATA



TEST GROUPS



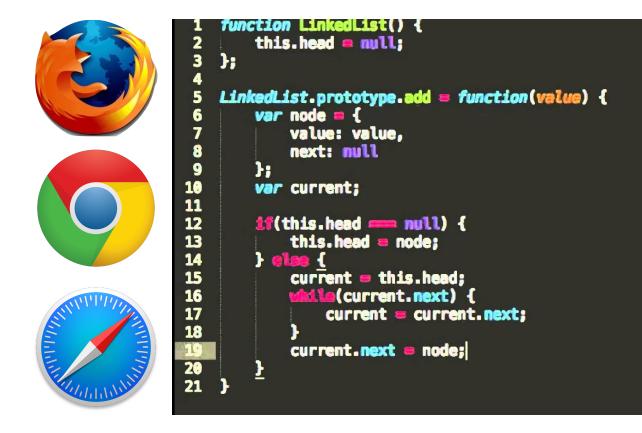
ONLINE EXPERIMENTS WORKSHOP

(MUCH) FASTER





USE (MANY!) JAVASCRIPT LIBRARIES EXPERIMENTS RUN EVERYWHERE



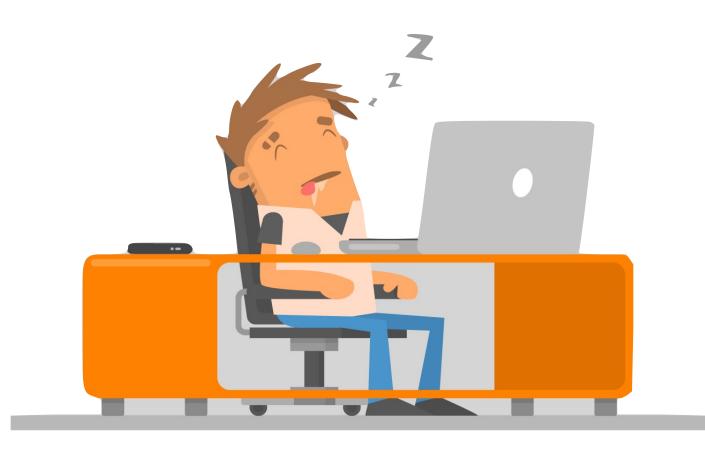


AT THE "ONLY" COST OF:

LOWER EXPERIMENTAL CONTROL







lost focus, catch trials, ...

pool data from many participants

ONLINE EXPERIMENTS WORKSHOP

SHORTER EXPERIMENTAL DURATION

LOOSER CONTROL OF TIMING AND LUMINANCE

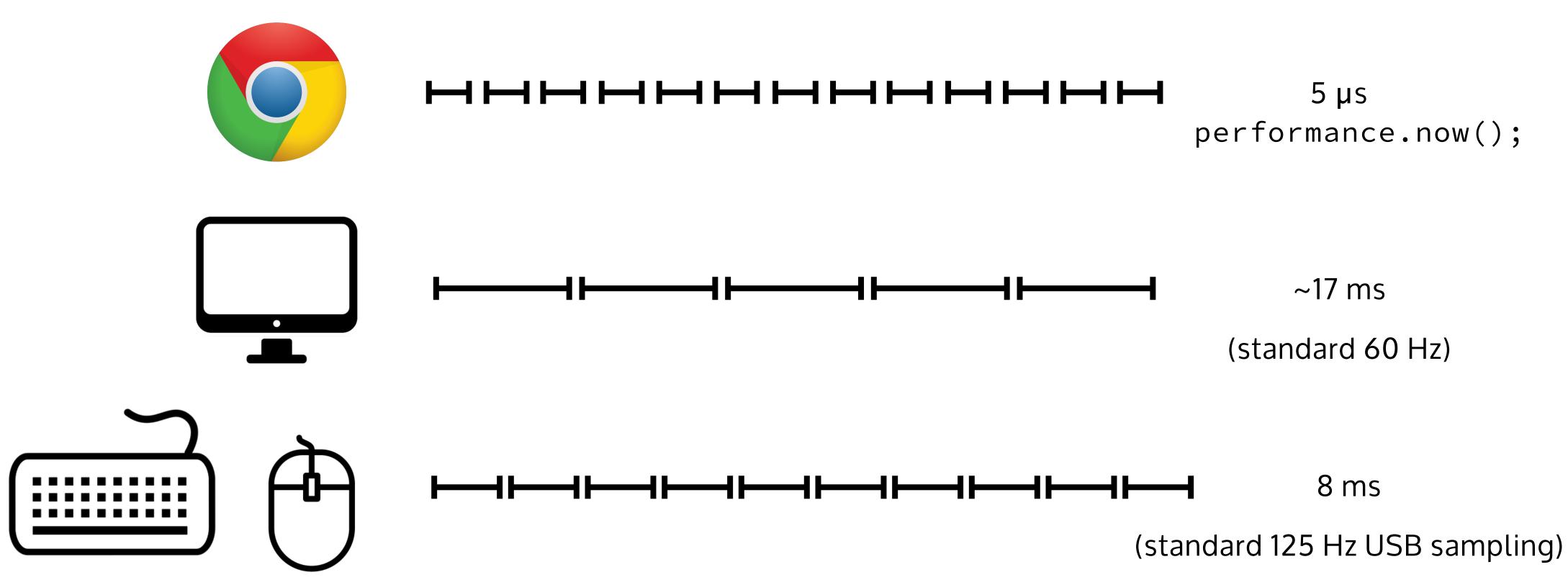


ICONS DESIGNED BY FREEPIK (WWW.FREEPIK.COM)

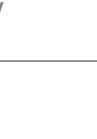




TIME PRECISION DEPENDS ON EACH WORKER'S SYSTEM

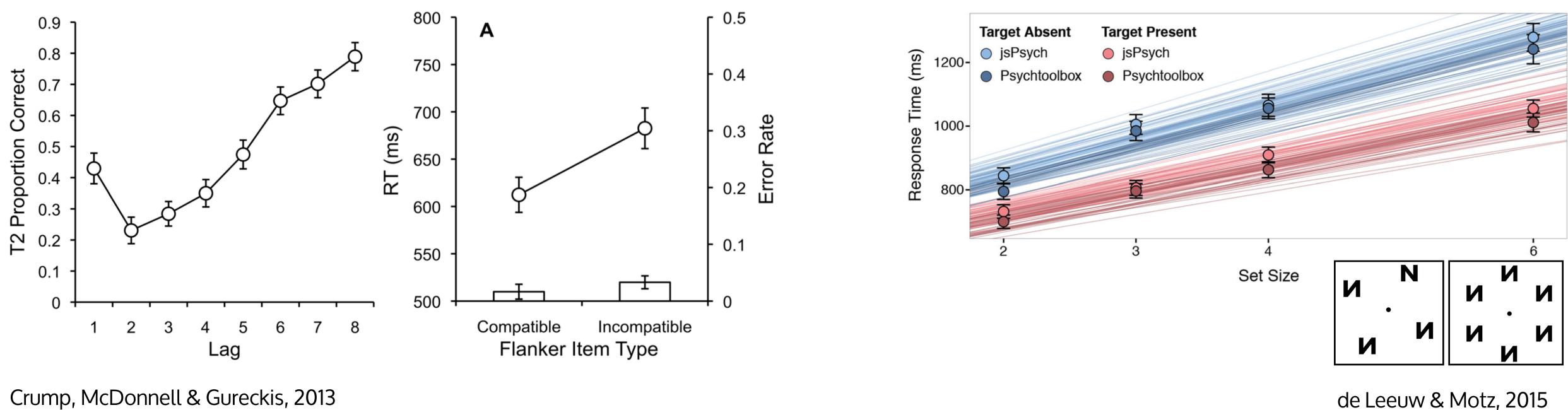


ONLINE EXPERIMENTS WORKSHOP

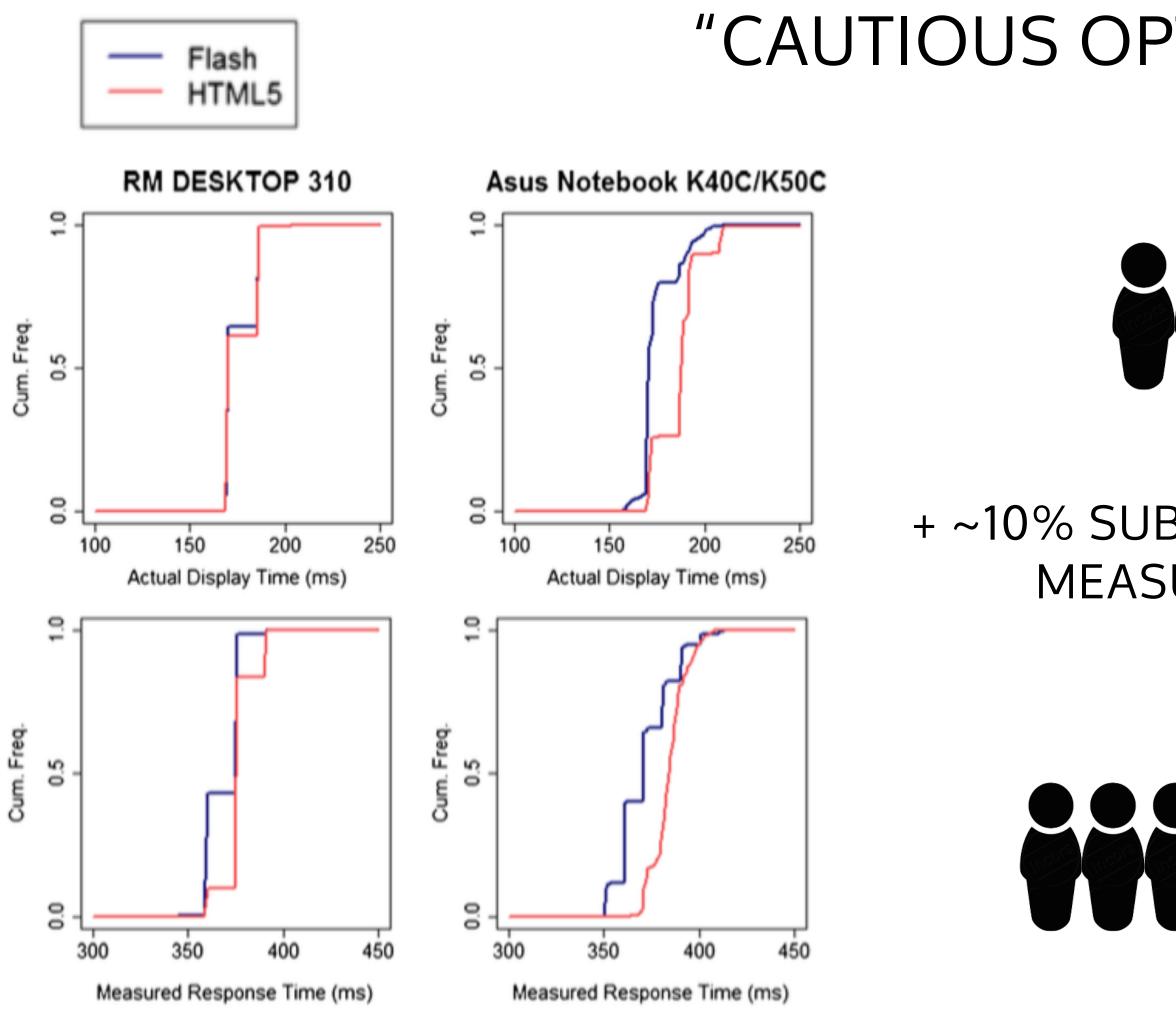


)

BUT "GOOD ENOUGH" TIMING IS POSSIBLE performance.now();



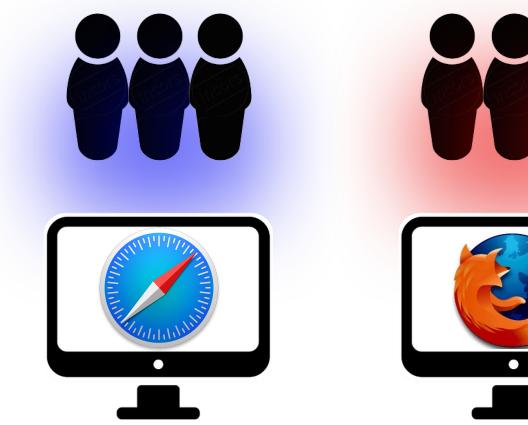
Crump, McDonnell & Gureckis, 2013



ONLINE EXPERIMENTS WORKSHOP

"CAUTIOUS OPTIMISM" ON TIMING

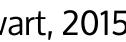
+ ~10% SUBJECTS COMPENSATES MEASUREMENT NOISE



BE CAUTIOUS WITH BETWEEN-SUBJECTS OR LONGITUDINAL DESIGNS

Reimers & Stewart, 2015

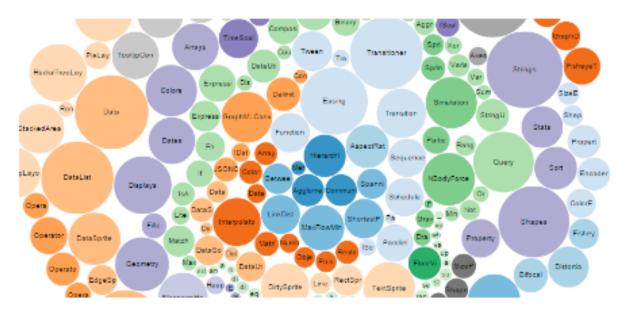






EyesDecide

Eye-Gaze



Balloon Pop

Calibration, Demo (Eye Gaze), Eye-

Gaze

ONLINE EXPERIMENTS WORKSHOP

MORE TO COME!



Ant attack Calibration, Demo (Eye Gaze), Eye-Gaze, Games (Eye-Gaze)



FAST NO DATA PRIVACY!

SIMPLE



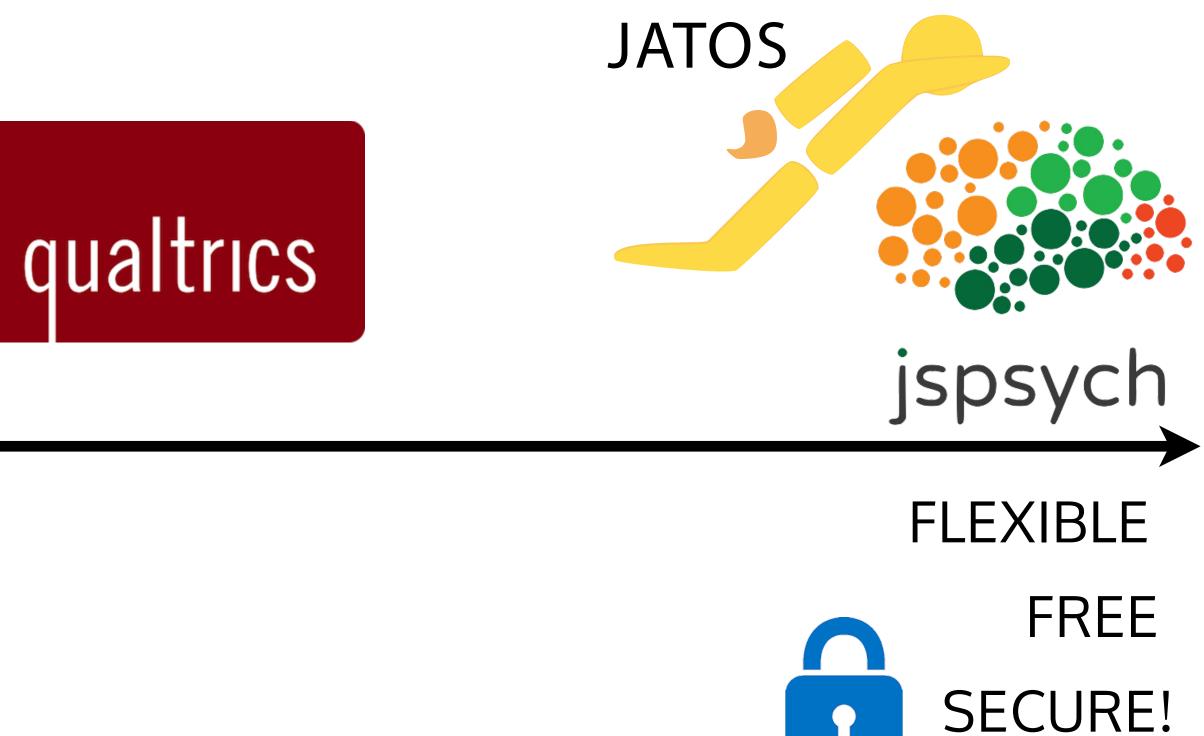


MULTIPLE OPTIONS TO COLLECT DATA ONLINE

PROS AND CONS

ONLINE TOOLS AVALABLE

GENERAL WORKFLOW







U

THE BROWSER REALLY IS FLEXIBLE

		localhost		Ċ		
I don't notice the effects o	of my actions until it's too late.					
 Strongly disagree 	Somewhat disagree	 Neutral 	 Somewhat agree 	 Strongly agree 		
I put off making decisions	ы.					
Strongly disagree	 Somewhat disagree 	 Neutral 	 Somewhat agree 	 Strongly agree 		
It's hard for me to notice w	when I've 'had enough' (alcohol	, food, sweets).				
 Strongly disagree 	 Somewhat disagree 	Neutral	 Somewhat agree 	 Strongly agree 		
				• • • <u>2048</u>	×	
I have trouble following th	nrough with things once I've ma	de up my mind t.	o do something.	← → C 🗋 localhost:9000	0/publix/3/7/start	ବ୍ 😭 🚼 💩 🍓
 Strongly disagree 	 Somewhat disagree 	 Neutral 	 Somewhat agree 	C		
					2048	SCORE BEST 0 0
I don't seem to learn from	my mistakes.				Join the numbers and get to the 2048 tile !	New Game
 Strongly disagree 	 Somewhat disagree 	 Neutral 	 Somewhat agree 	C		End Game
					4 2	
					4 2	
					HOW TO PLAY: Use your arrow keys to mo	ve the tiles. When
					two tiles with the same number touch, the	
					Created by Cabriela Cirulli, Record on 102	4 hu Venue Chudia
					Created by <u>Gabriele Cirulli.</u> Based on <u>102</u> and conceptually similar to <u>Threes by Ash</u>	



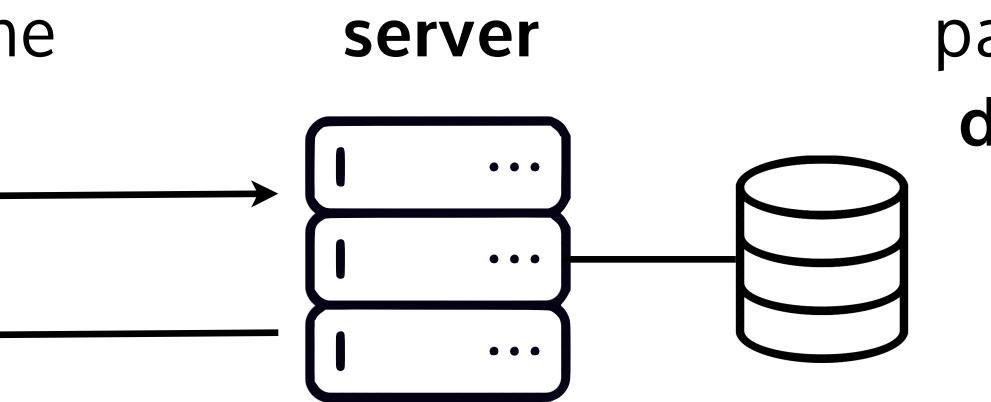
INTERNET 101

The client(s) send requests to the



The server sends a response with scripts + assets (images, audio, etc)

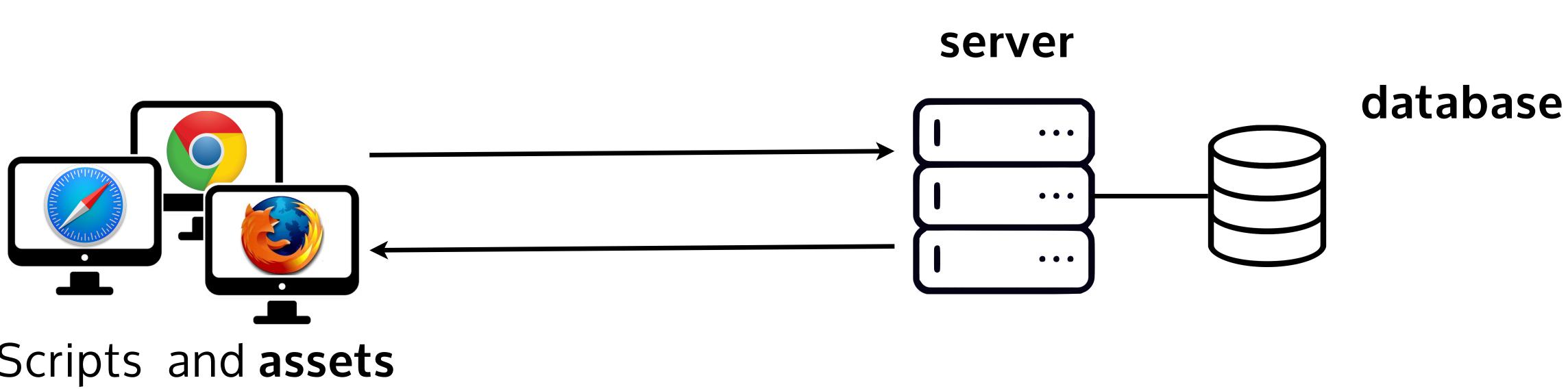
ONLINE EXPERIMENTS WORKSHOP



paired to a database



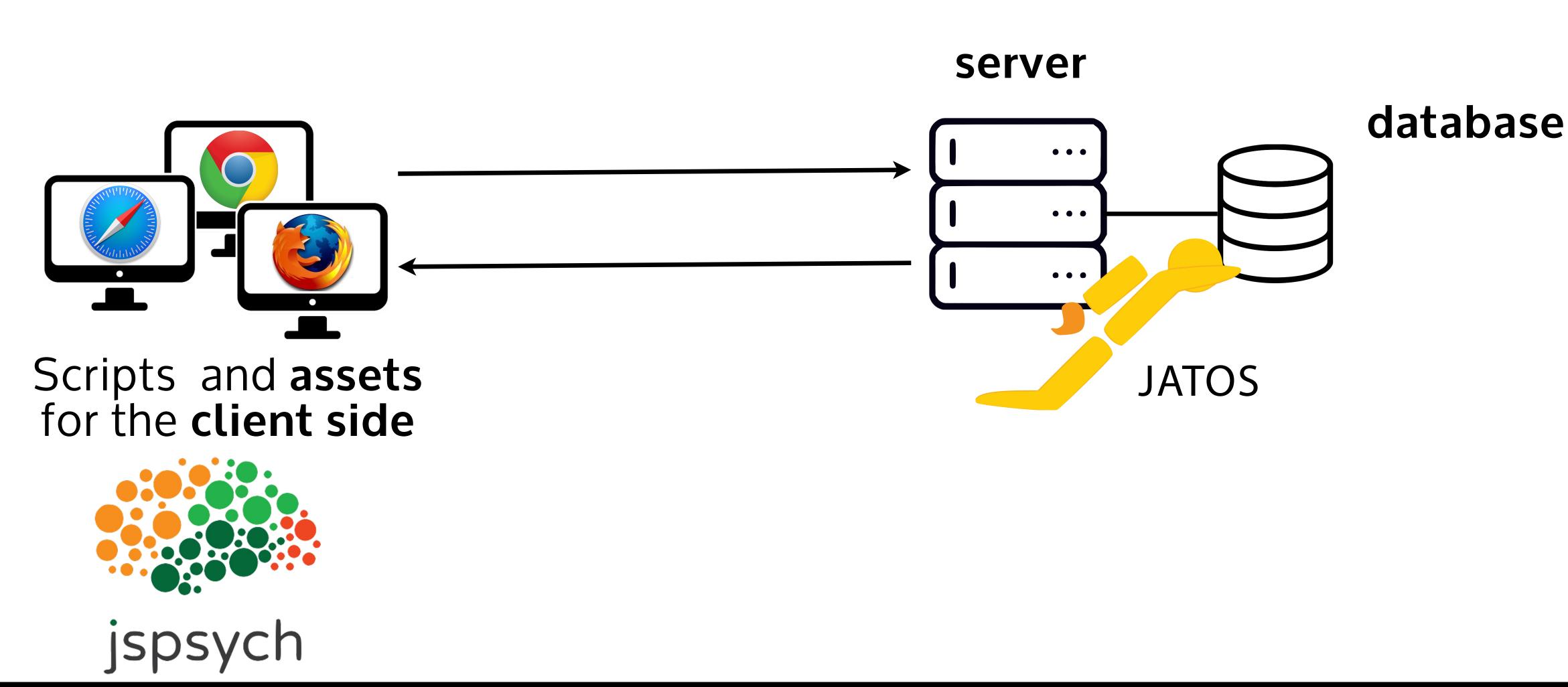
SO TO SET UP AN EXPERIMENT ONLINE YOU'LL NEED:



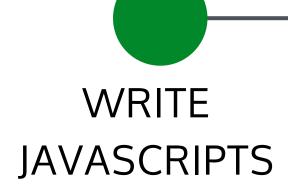
Scripts and assets for the client side



SO TO SET UP AN EXPERIMENT ONLINE YOU'LL NEED:





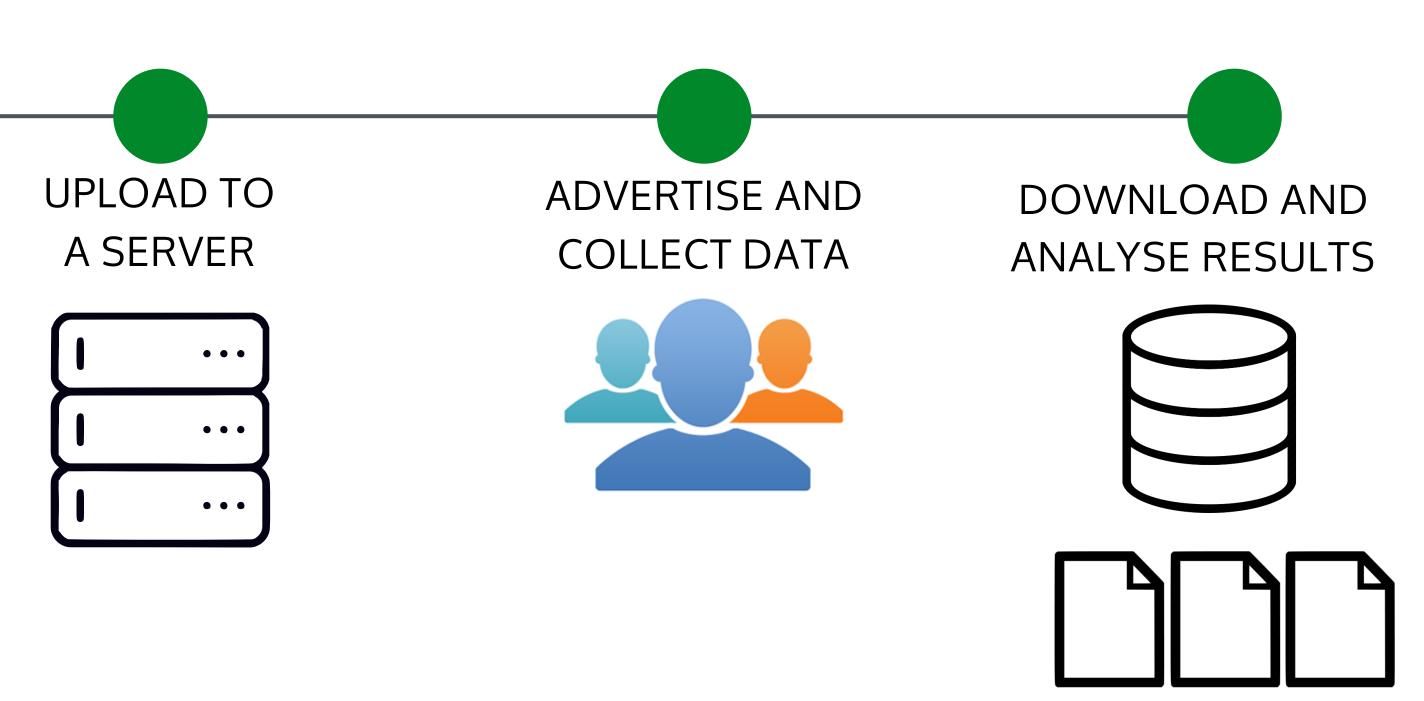


1	<pre>function LinkedList() {</pre>
2	this.head = null;
3	};
4	
5	<pre>LinkedList.prototype.add = function(value) {</pre>
6	var node = {
~	value: value,
2	next: null
2 3 4 5 6 7 8 9	
y	};
10	var current;
11	
12	<pre>if(this.head === null) {</pre>
13	this.head = node;
14	} else {
15	current = this.head;
16	while(current.mext) {
17	current = current.next;
18	
19	current.next = node;
20	
21	

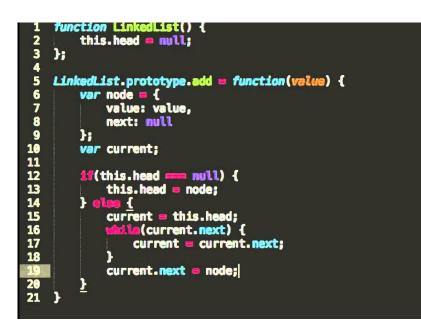
EDIT CODE ON LOCAL COMPUTER

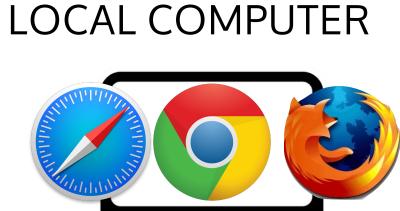






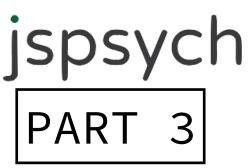
WRITE JAVASCRIPTS

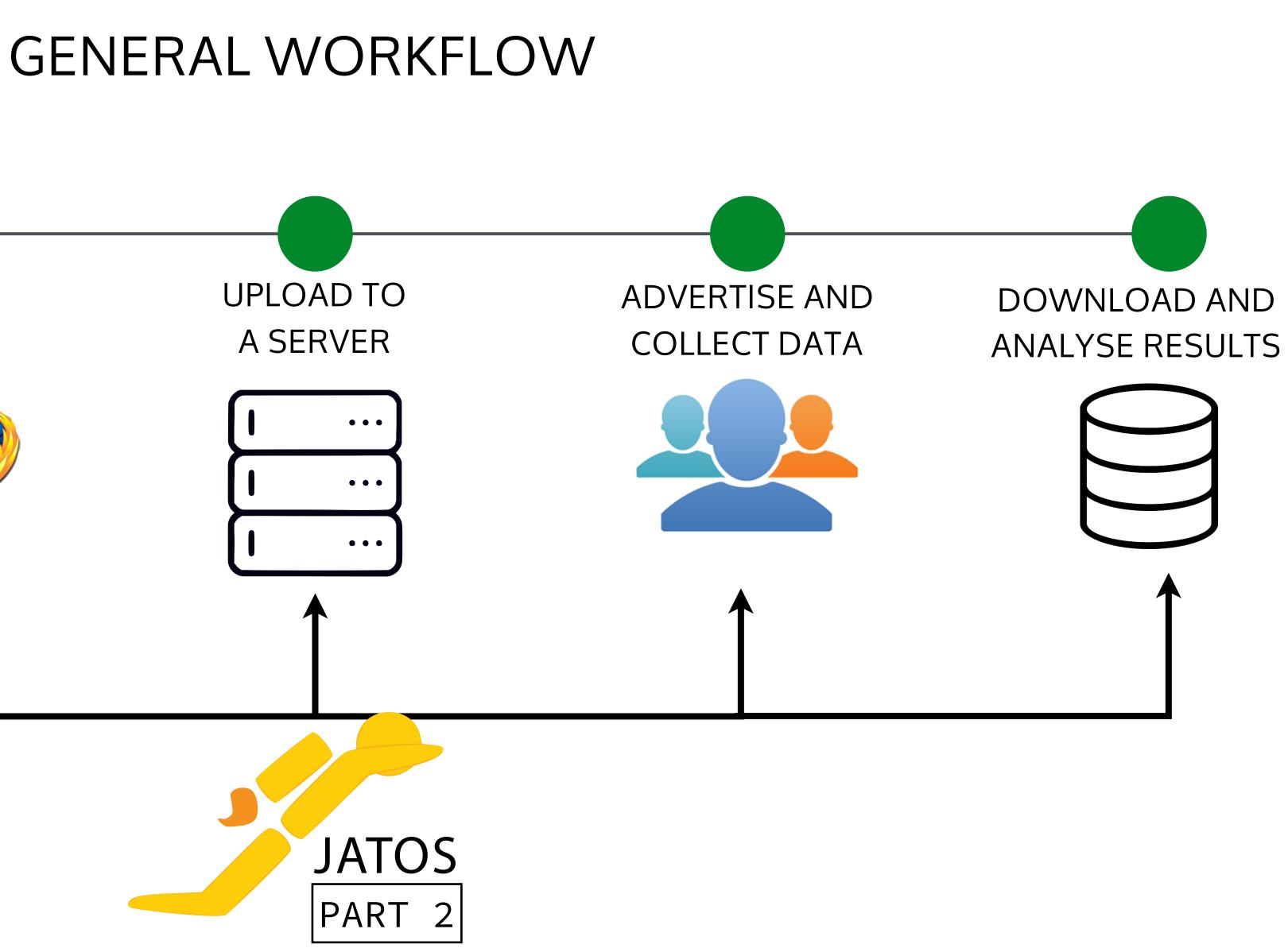




EDIT CODE ON

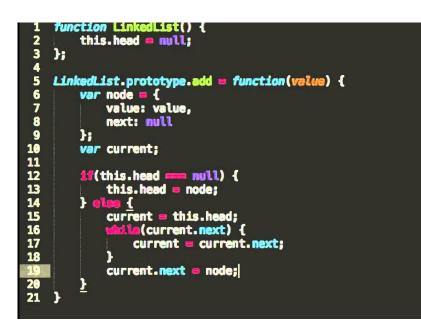


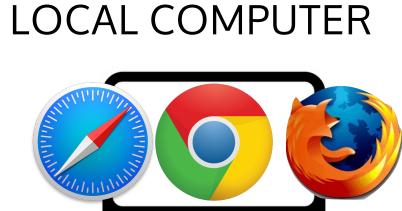




GENERAL WORKFLOW

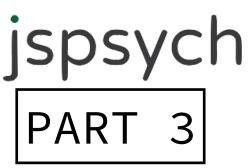
WRITE JAVASCRIPTS

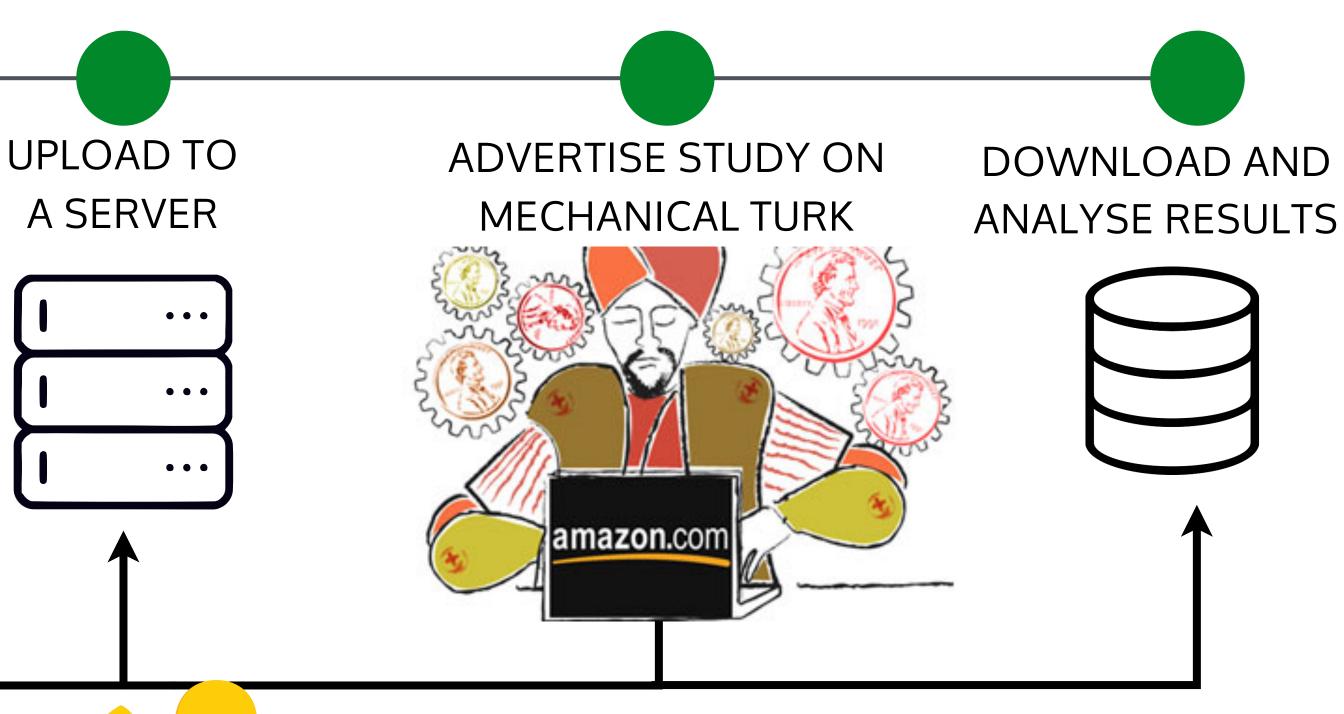




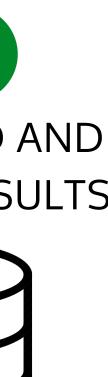
EDIT CODE ON







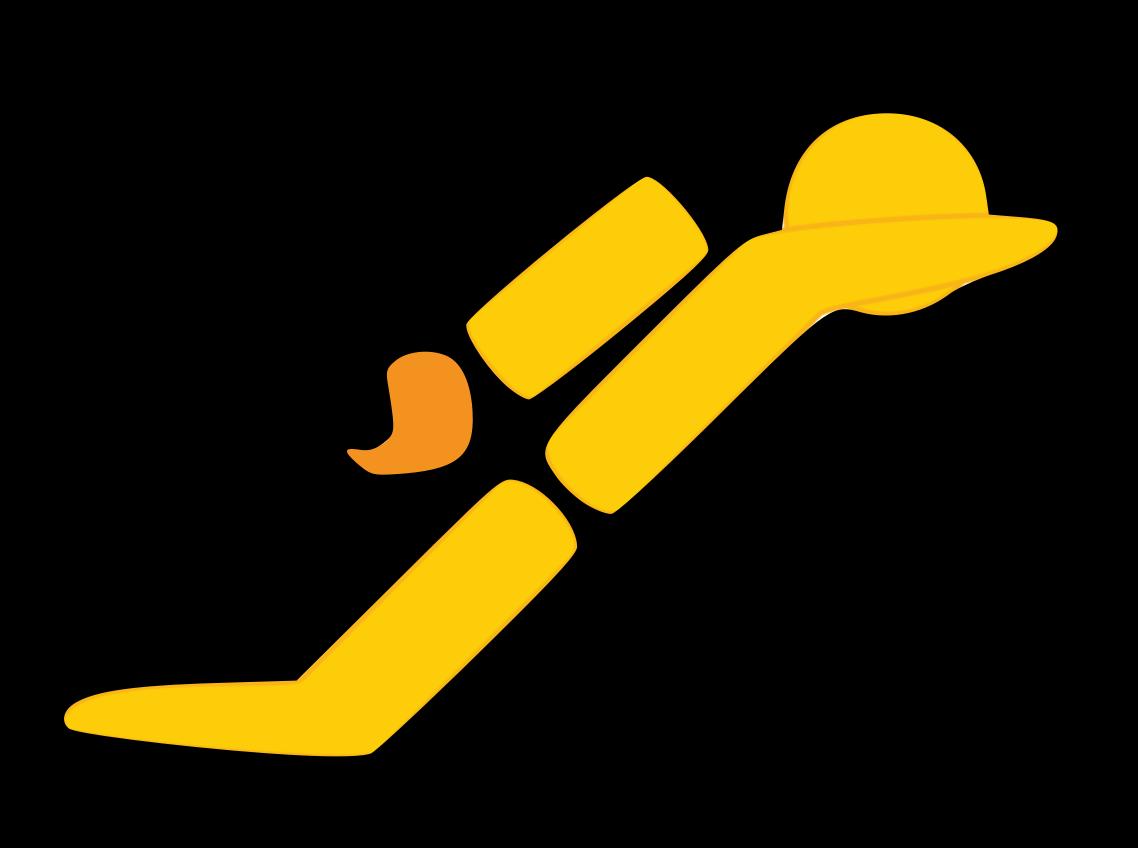




ONLINE EXPERIMENTS WORKSHOP

ANY QUESTIONS?

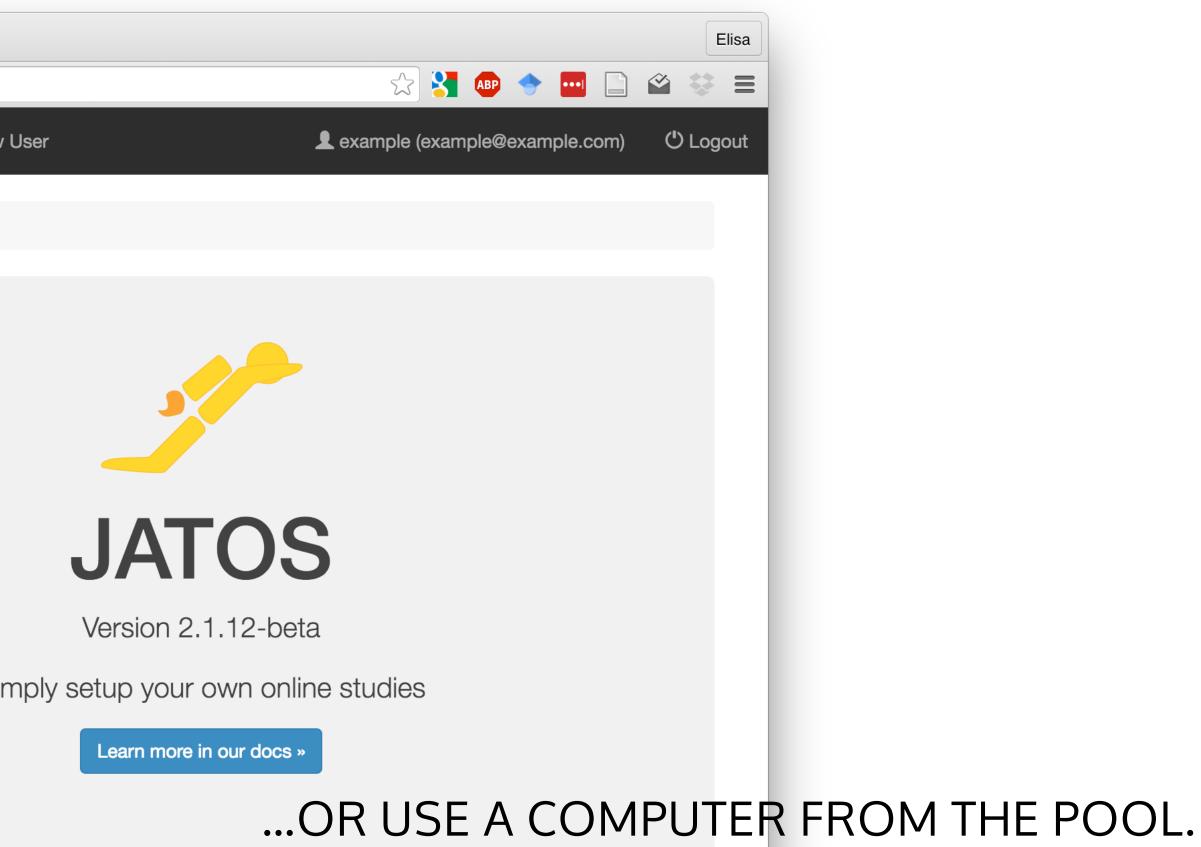




Part 2: Practical walkthrough

BEFORE WE START: ARE YOU READY?

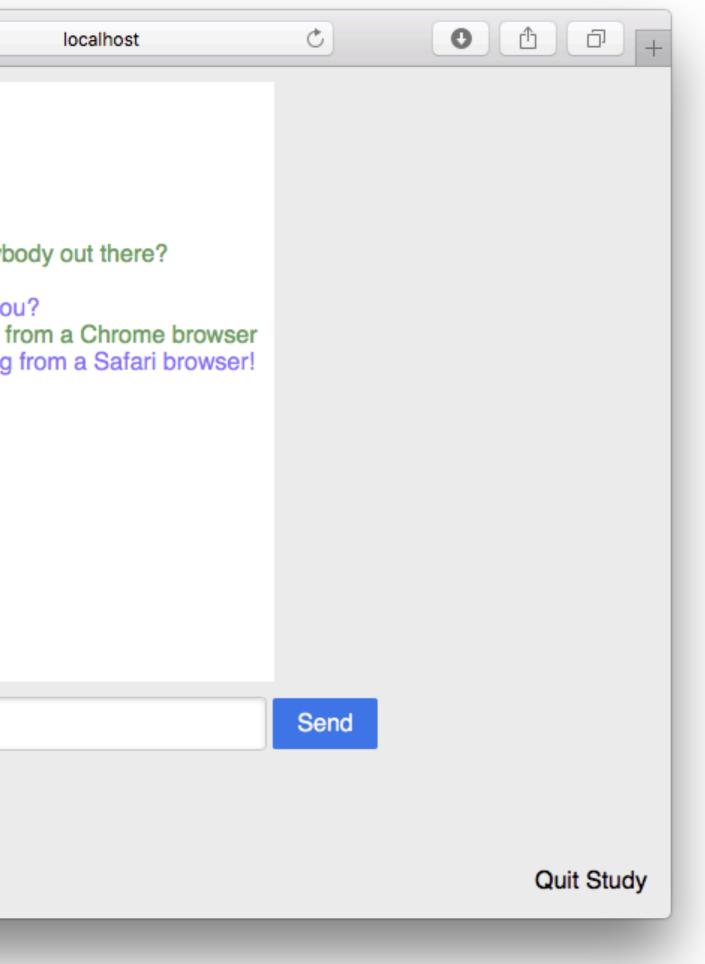
localhost:	9000 JATO	s calhost:9000	× D/jatos	
		+ New S	tudy I Import Study	+ New
				Sir



You are connected. A new member joined: 35 15:49:06 GMT+2 - 35: Hello 15:49:12 GMT+2 - 35: Hello? 15:49:20 GMT+2 - 35: Is there anylo 15:49:23 GMT+2 - You: I am here 15:49:27 GMT+2 - You: Who are you 15:49:37 GMT+2 - 35: I am writing for 15:49:46 GMT+2 - You: I am writing for 15:49:46 GMT+2 - You: I am writing for
Your message
End Study

ONLINE EXPERIMENTS WORKSHOP

LET'S HAVE A LITTLE CHAT :)

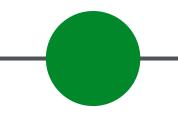




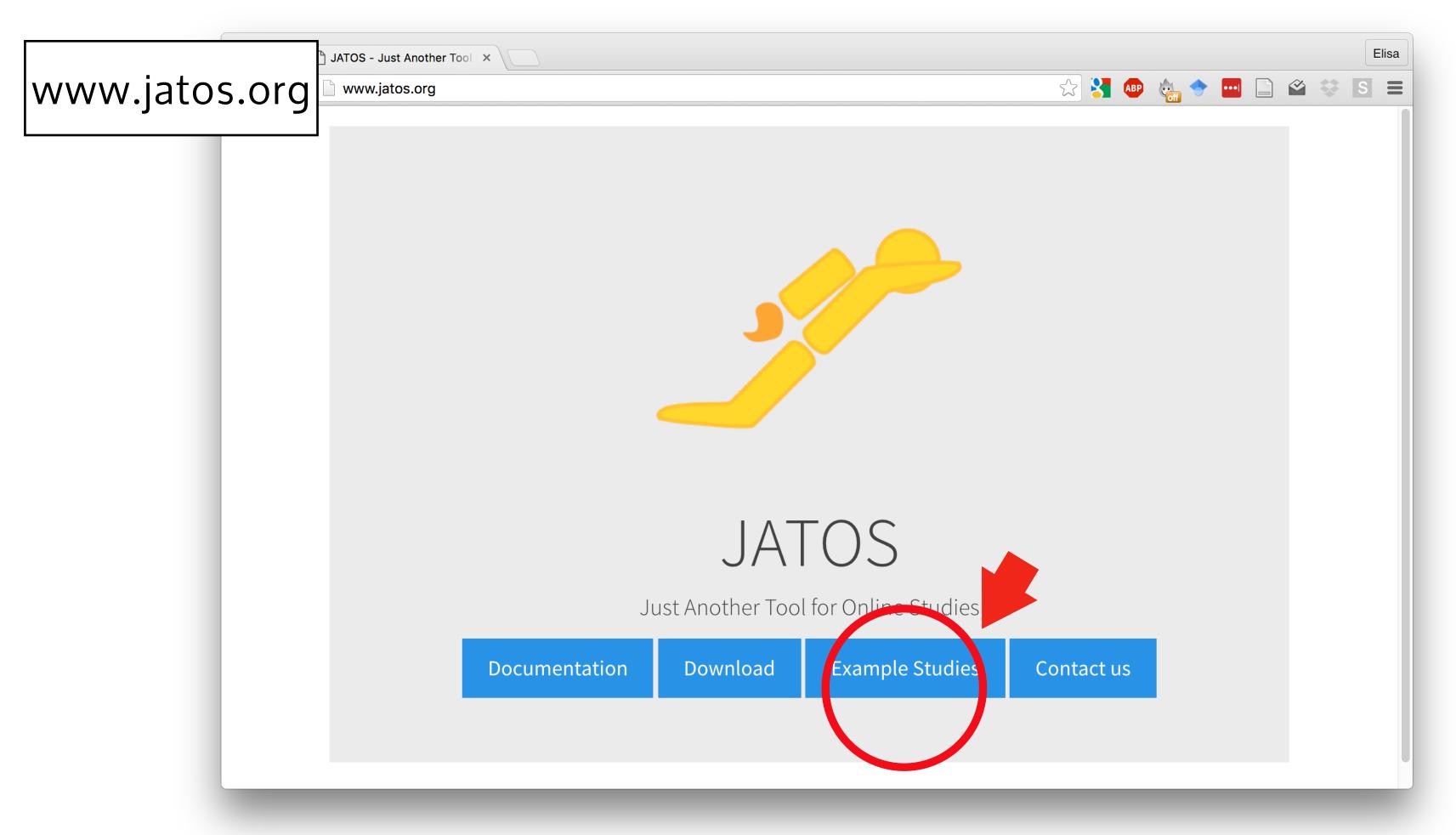






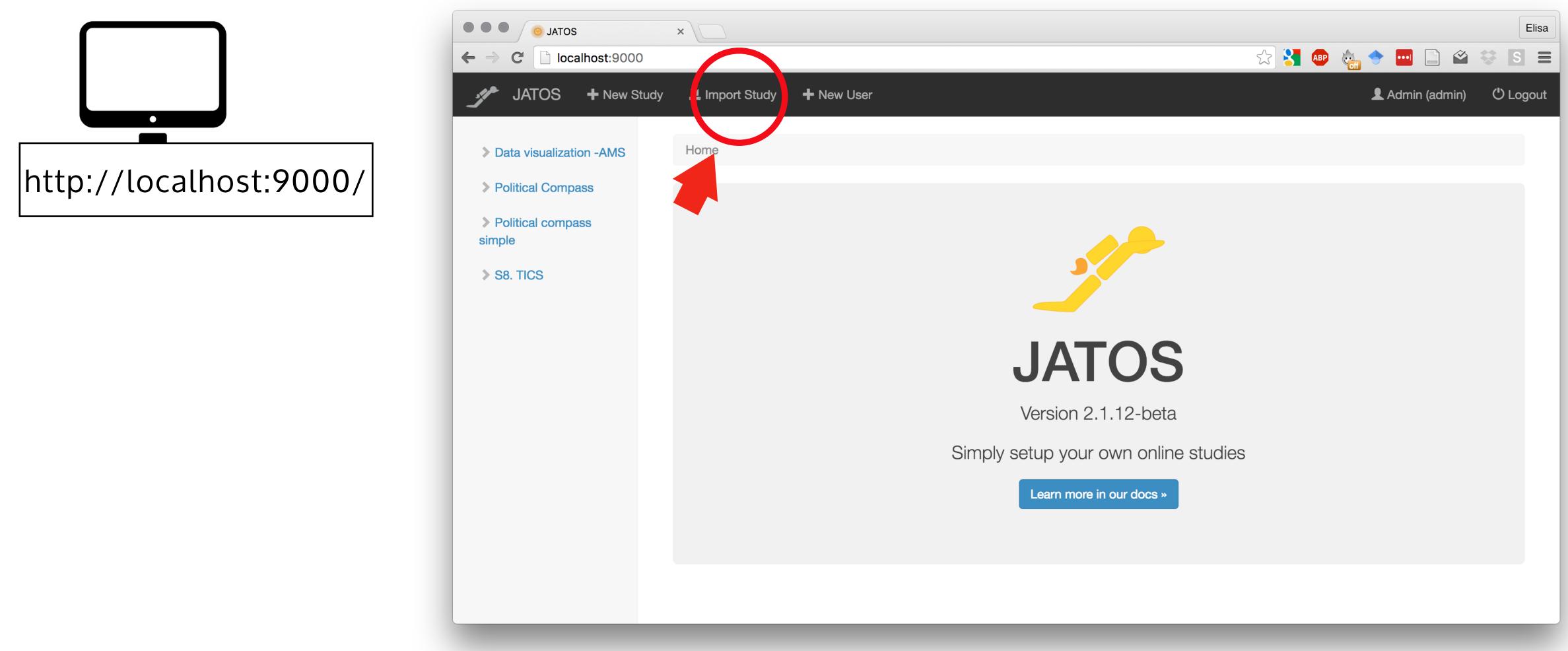


DOWNLOAD STUDY



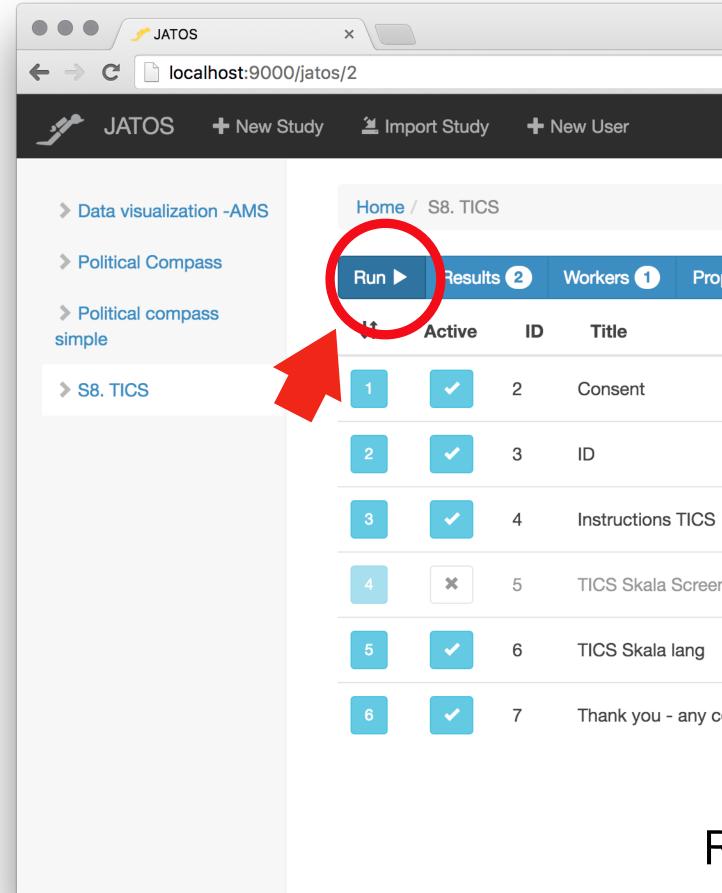


IMPORT STUDY TO YOUR LOCAL INSTALLATION





RUN AND MODIFY YOUR STUDY



ONLINE EXPERIMENTS WORKSHOP

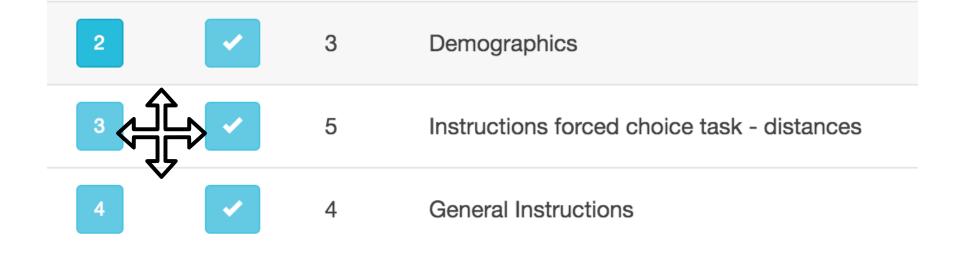
								Elisa
				☆ 🚼		-		SE
						👤 Admin (a	admin) じ	Logout
roperties :	More -	Unlocked	Components -	Batch	Manager			
			Ru	n 🕨 Res	sults 1	Properties	More -	
			Ru	n ► Res	sults 0	Properties	More -	
6			Ru	n 🕨 Res	sults 0	Properties	: More -	
ening			Ru	n 🕨 Res	sults 0	Properties	More -	
			Ru	n 🕨 Res	sults 1	Properties	More -	
comments			Ru	n 🕨 Res	sults 0	Properties	More -	

RUN THE WHOLE STUDY OR SINGLE COMPONENTS



EXPLORE THE GUI

1. MODIFY COMPONENT ORDER (DRAG AND DROP)



2. ACTIVATE/DEACTIVATE COMPONENTS

2	~	3	Demographics
3	×	5	Instructions forced choice task - distances
4	~	4	General Instructions

ONLINE EXPERIMENTS WORKSHOP

3. LOCK STUDIES TO PREVENT CHANGES

N	lore -	Unlocked	Components -
	More -	Locked	Components -

4. CHANGE USERS FOR EACH STUDY

 JATOS	New Study	🚄 Import S	itudy 🚽	New Use
		Properties :	More -	Unlocke
			🚢 Expoi	
			L Chan	ge Users
	(cs	× Delet	e



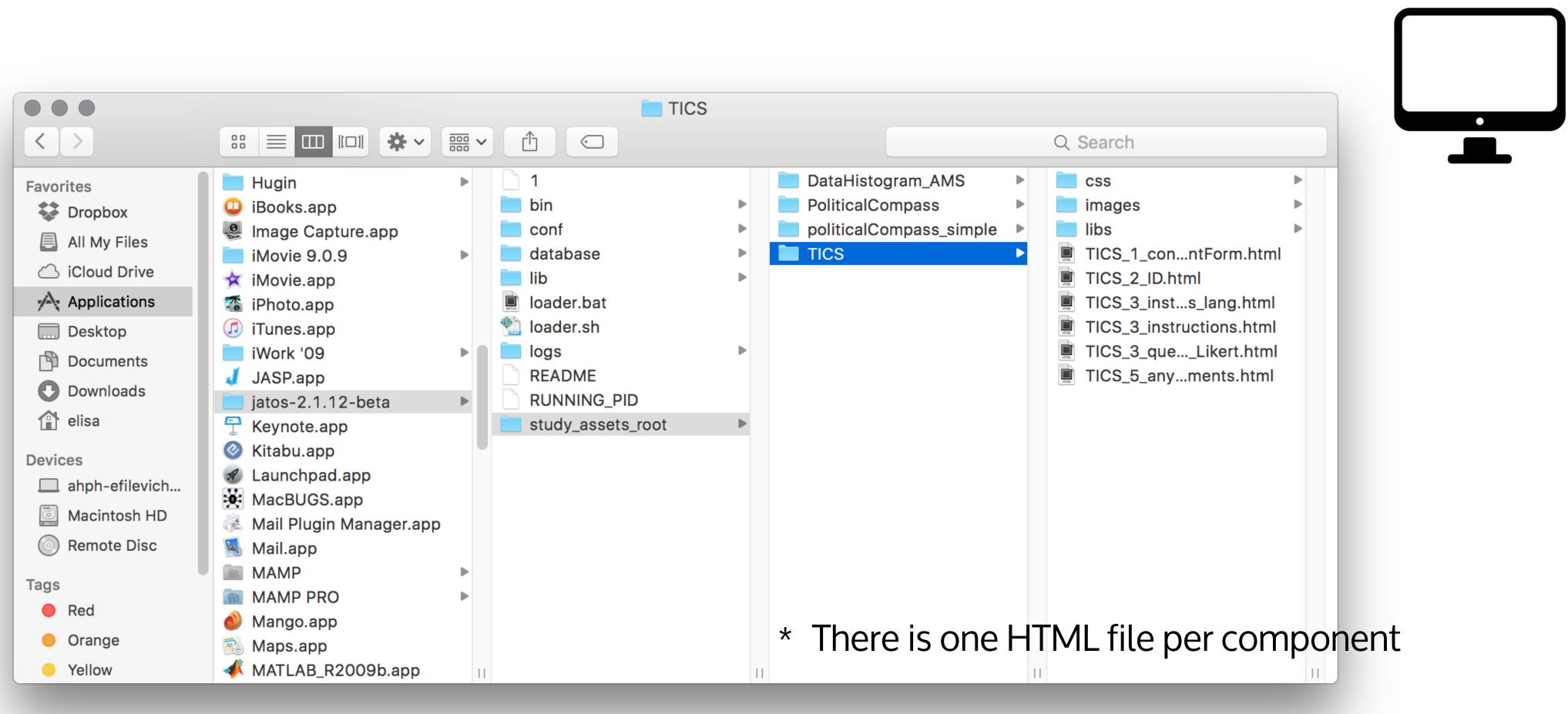




WRITE IMPORT **JAVASCRIPTS**

EDIT CODE ON LOCAL COMPUTER

EXPLORE THE (LOCAL) FILE SYSTEM



ONLINE EXPERIMENTS WORKSHOP

* The location of the study_assets_root can be changed in jatos-x.x.xx/conf/production.conf

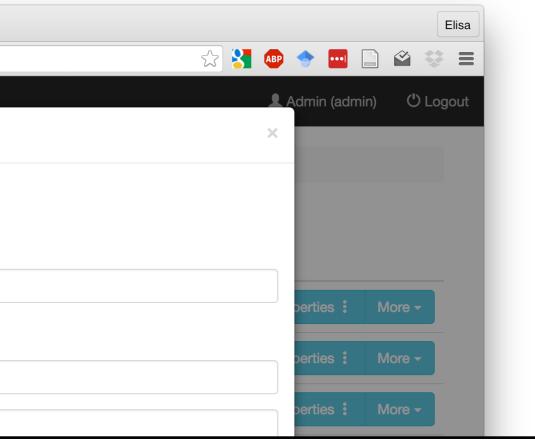




MODIFY THE STUDY PROPERTIES

 → C → Iocalhost:9000/jatos/4 		☆ 🔧 💩 🔶 🔜 🗋 🗳 🚍
✓ JATOS + New Study [™] Impor Edit Compone		오 Admin (admin) 〇 Logout
 Data visualization -AM Political Compass Political compass simple S8. TICS 	10 ed290ca2-1490-4a52-bae3-6c25f476b89b Pregunta Mapa	perties : More -
HTML file path 3	/PoliticalCompass/ pregunta_mapa.html Your comments	perties : More - perties : More -
JSON input 3	<pre>{ "provincias": ["seleccionar", "C.A.B.A.", "Buenos Aires", "Catamarca", "Chaco", "Chubut", "Córdoba", "Corrientes", "Entre Ríos", "Formosa", "Juiuv".</pre>	AVASCRIPT OBJECT N
	Cancel	Save & Run

ONLINE EXPERIMENTS WORKSHOP



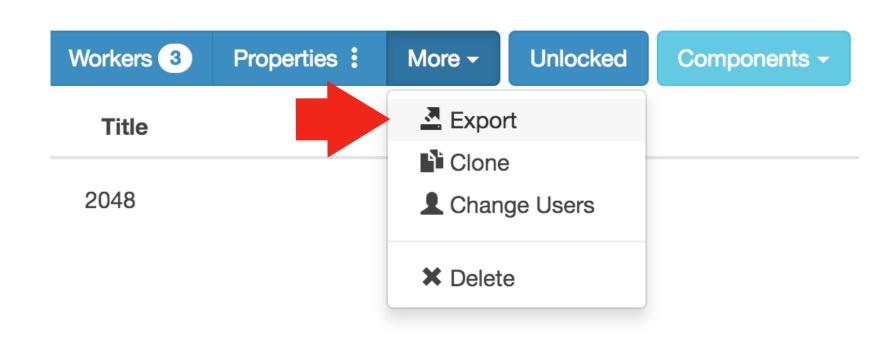
TATION)



DEPLOY YOUR STUDIES TO YOUR SERVER

EXPORT STUDY

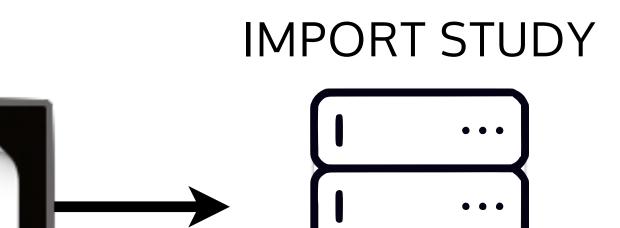
localhost:9000



ONLINE EXPERIMENTS WORKSHOP

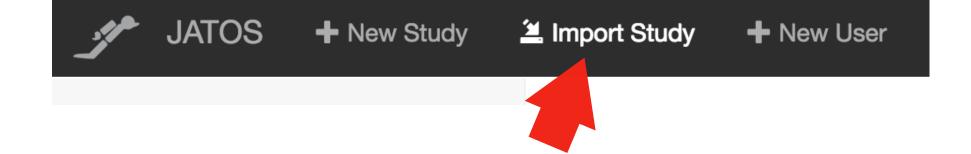
WRITE IMPORT

JAVASCRIPTS



http(s)://ourAWS-domain/jatos

• • •

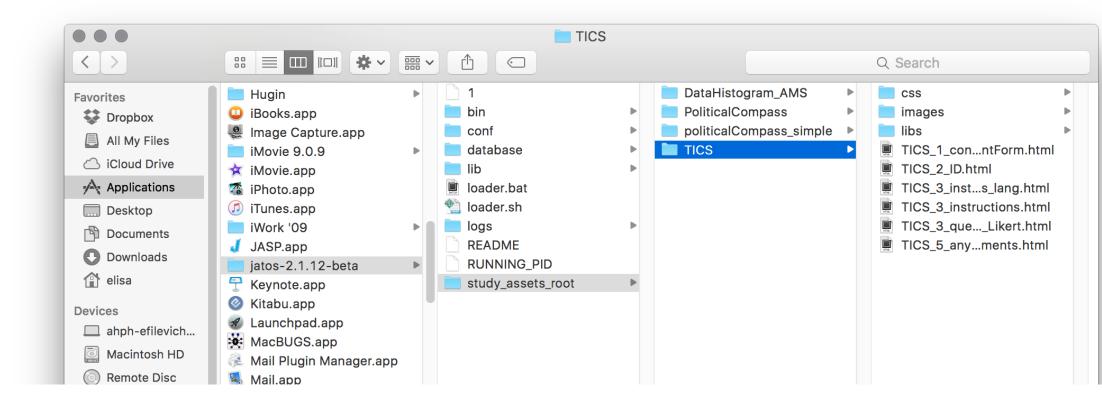




DEPLOY YOUR STUDIES TO YOUR SERVER

EXPORT STUDY

localhost:9000

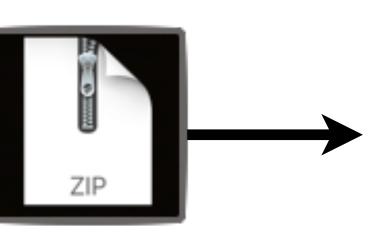


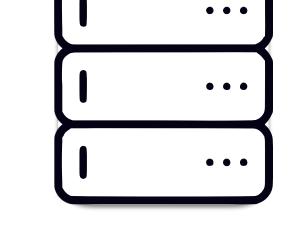
ONLINE EXPERIMENTS WORKSHOP

WRITE IMPORT

JAVASCRIPTS

IMPORT STUDY



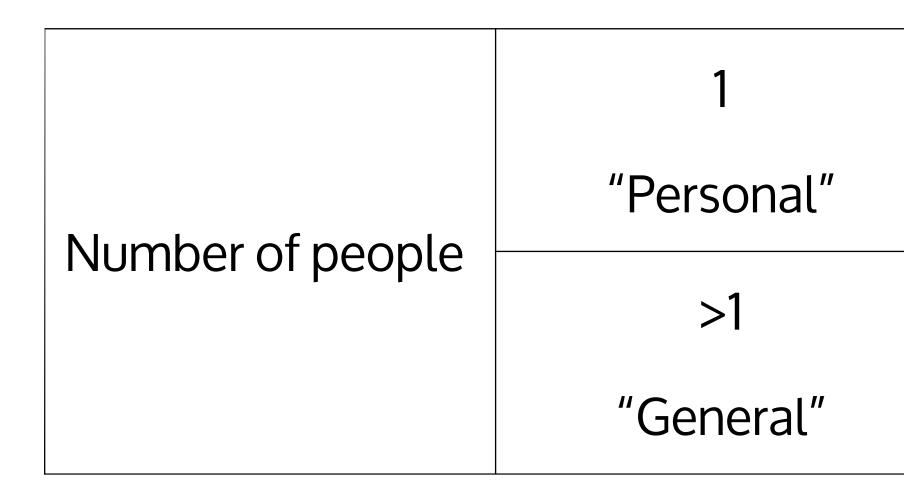


http(s)://ourAWS-domain/jatos

	elisa — -bash — 80×24	-
-	n Oct 9 10:07:10 on ttys000	E
frees	urfer-Darwin-lion-stable-pub-v5.3.0	
Setting up env	ironment for FreeSurfer/FS-FAST (and FSL)	
FREESURFER_HOM	E /Applications/freesurfer	
FSFAST_HOME	/Applications/freesurfer/fsfast	
FSF_OUTPUT_FOR	MAT nii.gz	
SUBJECTS_DIR	/Applications/freesurfer/subjects	
MNI_DIR	/Applications/freesurfer/mni	
FSL DIR	/usr/local/fsl	
\$		



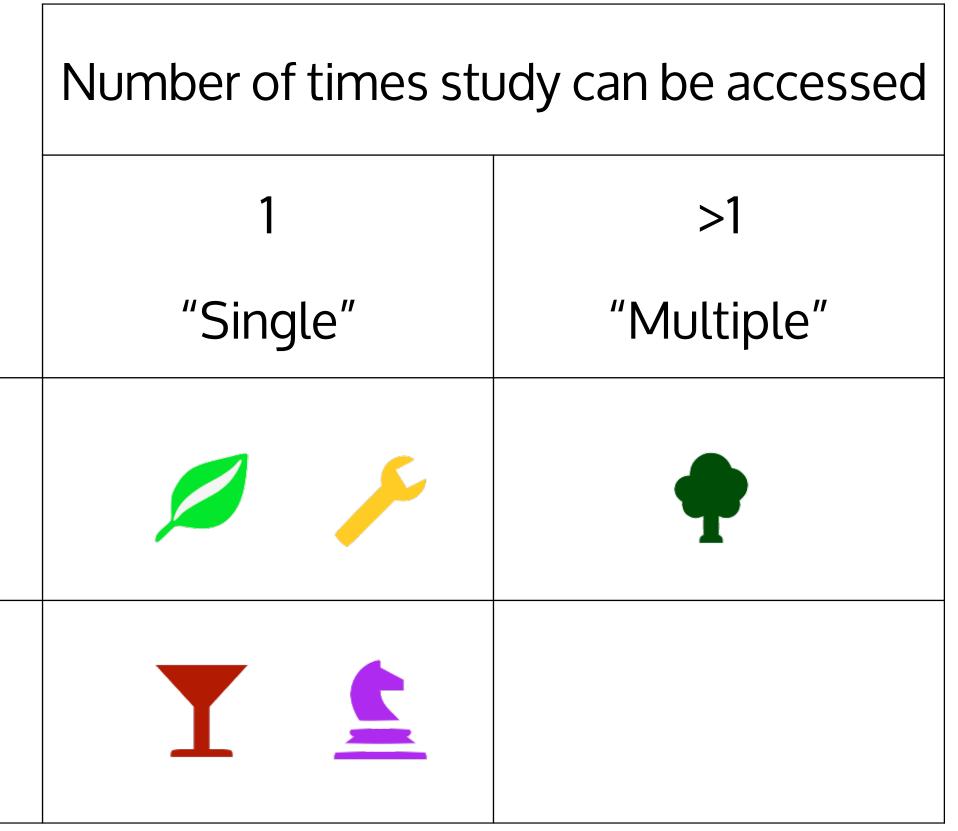
WORKER (PARTICIPANT) TYPES



ONLINE EXPERIMENTS WORKSHOP

WRITE IMPORT

JAVASCRIPTS

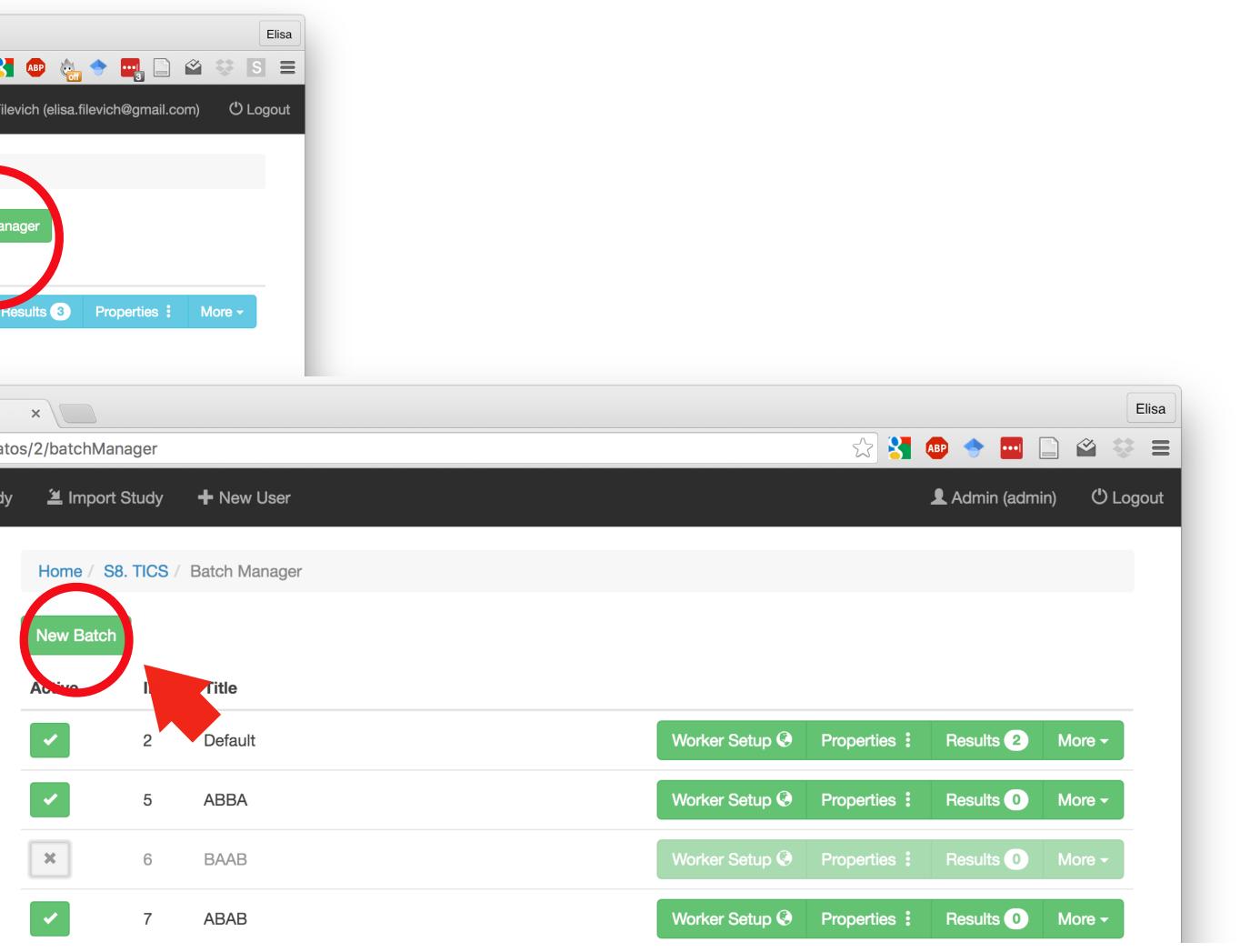


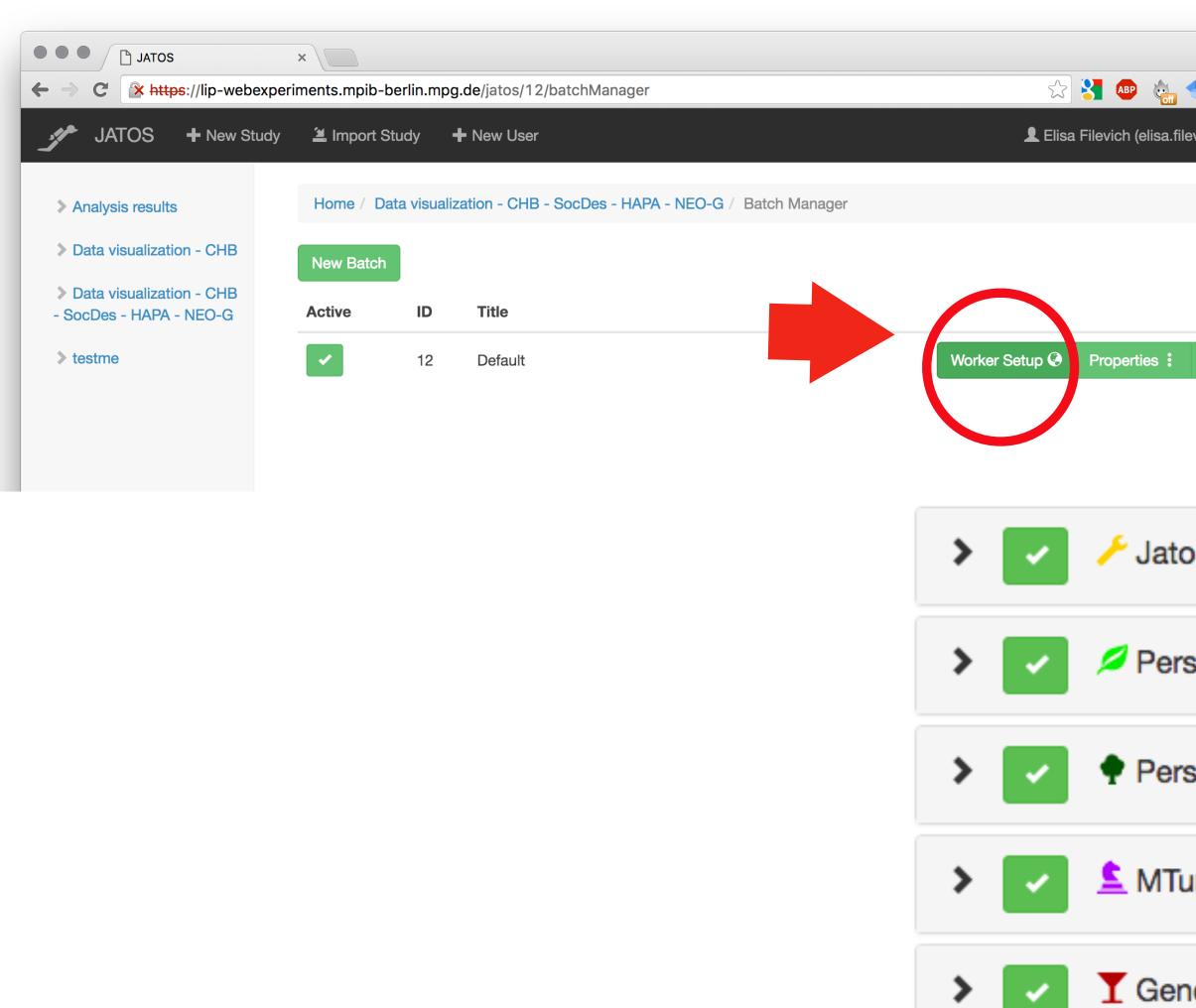


C <u>k https</u> ://lip-webexper	iments.m	pib-berlin.	mpg.de	/jatos/12					<
JATOS + New Study	🔔 Imp	oort Study	+ N	lew User					L E
Analysis results	Home	/ Data vis	ualizatio	on - CHB - Soc	Des - HAPA - NE	O-G			
Data visualization - CHB	Run 🕨	Result	s 3	Workers 2	Properties :	More -	Unlocked	Components -	Bat
Data visualization - CHB - SocDes - HAPA - NEO-G	ţ†.	Active	ID	Title					
> testme	1	 Image: A start of the start of	37	Scatterplot	SelbstKonzept				Run
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							> Da AMS	ta visualization -	
							> Po	litical Compass	
							> Po	litical compass	
							simpl	e	
							> S8	. TICS	

ONLINE EXPERIMENTS WORKSHOP

SELECT WORKER TYPES





SELECT WORKER TYPES

Elisa		
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ilevich@gmail.com) 🖒 Logout		
Results 3 More -		
os Worker 1		Results
rsonal Single Work	xer 0 Add	Results
rsonal Multiple Wo	orker O	Desults
	Add	Results
urk Worker Օ	Source Code	Results
neral Single Work	er 0	Results





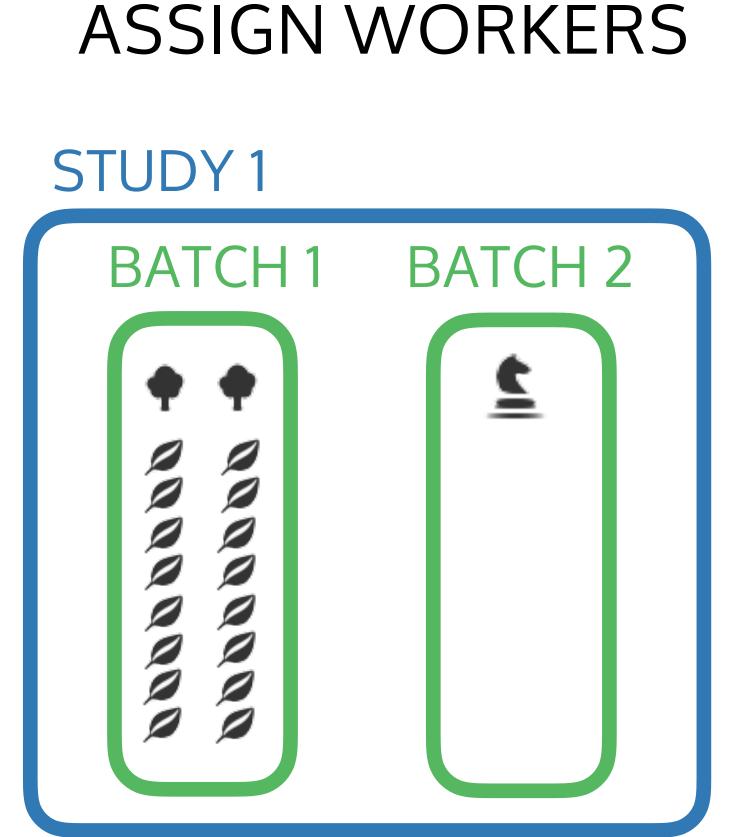
*	Jatos Worker 1
Worker ID	User Email
1	admin
> <	Personal Single Worker 🕕
* <	Personal Multiple Worker 2
Worker ID	Comment
Worker ID	Comment Kri
18 19	Kri

GENERATE ACCESS LINKS FOR WORKERS

	Results 10
Last Study State	
FINISHED	Run
	Add Results 0
	Add Results 4
Last Study State	
DATA_RETRIEVED	Link
DATA_RETRIEVED	Link
DATA_RETRIEVED	Link Source Code Results ①







Each study contains multiple batches,

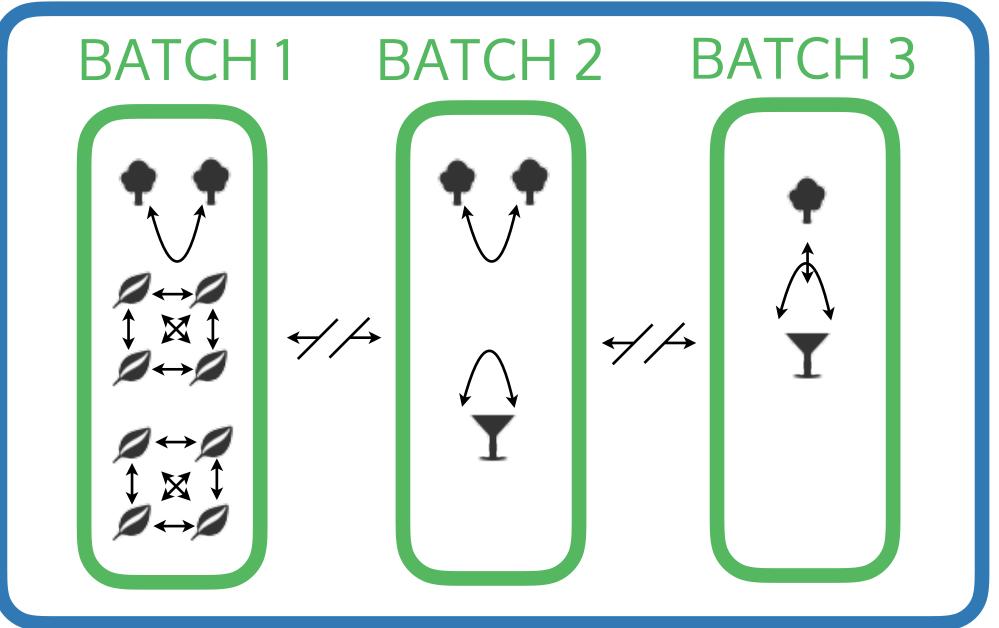
Each batch contains multiple workers

ONLINE EXPERIMENTS WORKSHOP



DESIGN GROUPS FOR GROUP STUDIES

STUDY 2 (GROUP STUDY)



Each study contains multiple batches,

Each batch contains multiple workers

ONLINE EXPERIMENTS WORKSHOP

WRITE IMPORT

JAVASCRIPTS

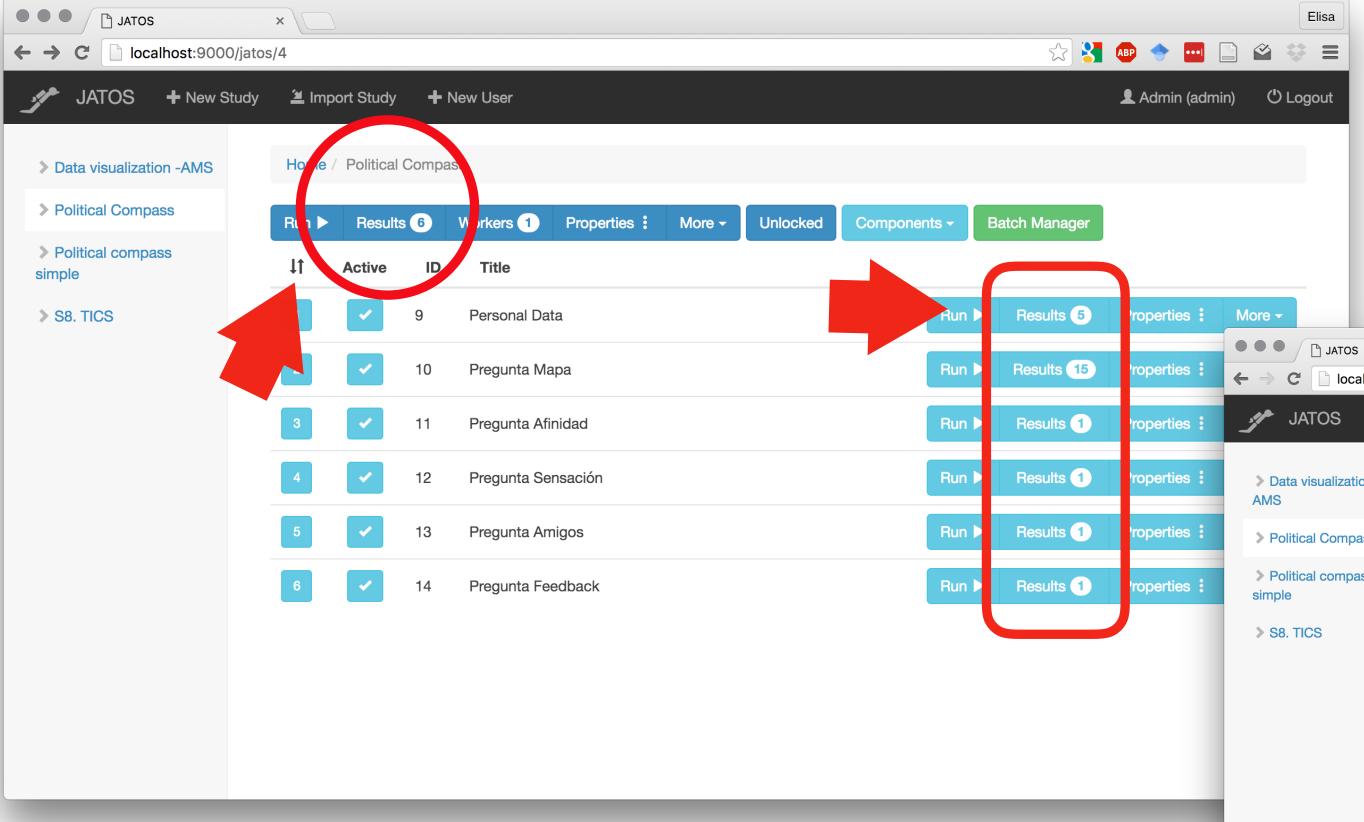


WRITE IMPORT JAVASCRIPTS

EDIT CODE ON LOCAL COMPUTER

MANAGE RESULTS

Elisa



ONLINE EXPERIMENTS WORKSHOP

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Admin (admir	n) 😃 Logout											
operties :												
operties :												<u></u>
	← → C	jatos/4,	/results							\swarrow		
operties :	JATOS + New Stu	ıdy	🛎 Import Sti	udy 🕂 New L	lser						L Admin (admin)	ŮL
		H	Home / Polit	ical Compass / F	Results							
operties :	Data visualization - AMS											
operties :		<	Select a re	sult for export or	deletion by cli	cking anywhe	re on its row.					
	Political Compass											
operties :	Political compass simple					Export S	Selected Exp	ort All Delete Select	ed Delete All	Select All	Select Filtered Desele	ct All
	> S8. TICS	Sho	ow 10 \$ ent	ries						S	Search:	
	Ø 56. HOS							MTurk Worker				
			Result ID	Start Time (Server)	¢ Duration	Worker ^{\$} ID	Worker [‡] Type	ID (Confirmation Code)	¢ Grot _s a ID	≑ State	Messages	
		>	44	2016/07/29 10:57:20	00:00:04	1	🔑 Jatos	none (none)	none	FINISHED		
-		>	43	2016/07/29 10:51:16	00:06:00	1	Jatos	none (none)	none	FINISHED		
		>	42	2016/07/29 10:50:05	00:00:05	1	🔑 Jatos	none (none)	none	FINISHED		
		>	41	2016/07/29 10:48:35	00:00:13	1	Jatos	none (none)	none	FINISHED		
		>	40	2016/07/27 23:22:34	1:11:26:01	1	Jatos	none (none)	none	FAIL	Closed by JATOS: stud not completed, but new study started by the sa worker	N





WRITE IMPORT JAVASCRIPTS

DOWNLOAD DATA

{"slideResultList":[{"wrongKeyPressed":0,"keycode":65,"que
{"workerId":"124"},"resultId":"2169","componentId":"275"}
<pre>{"studyId":"28","componentId":"276","workerId":"124","stud</pre>
riginSelected":"United States","countryResidenceSelected":
{"slideResultList":[{"wrongKeyPressed":0,"keycode":67,"que
71, "questionDuration": 10470, "lostFocus": false}, {"wrongKeyP
5983,"lostFocus":false}],"studyId":"28","componentId":"277
{"slideResultList":[{"wrongKeyPressed":0,"keycode":39,"que
2064 "loctFocus" folcoll "studyId", "20" "somponentId", "279

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ONLINE EXPERIMENTS WORKSHOP

allData.txt ~

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ONLINE EXPERIMENTS WORKSHOP

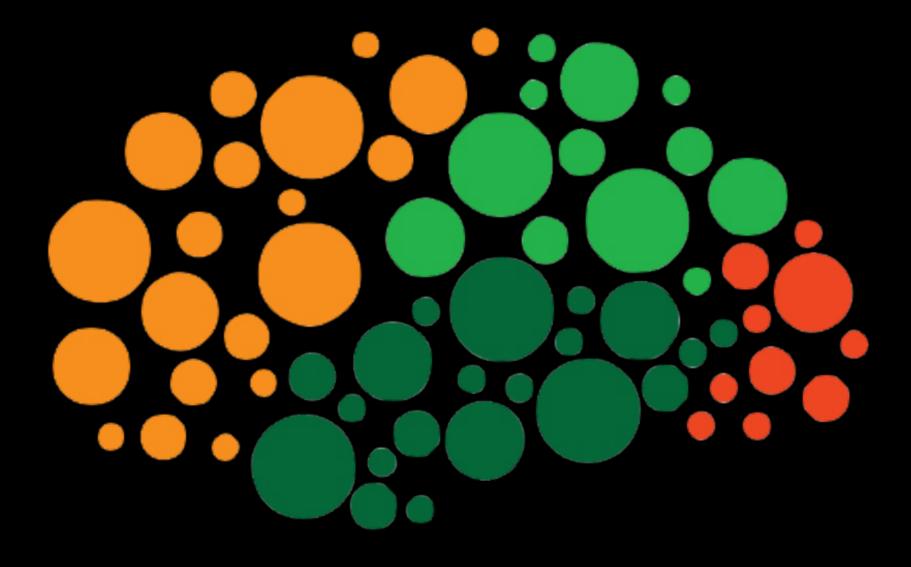
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~30 min



SDSVC



Part 3: (short) JavaScript tutorial

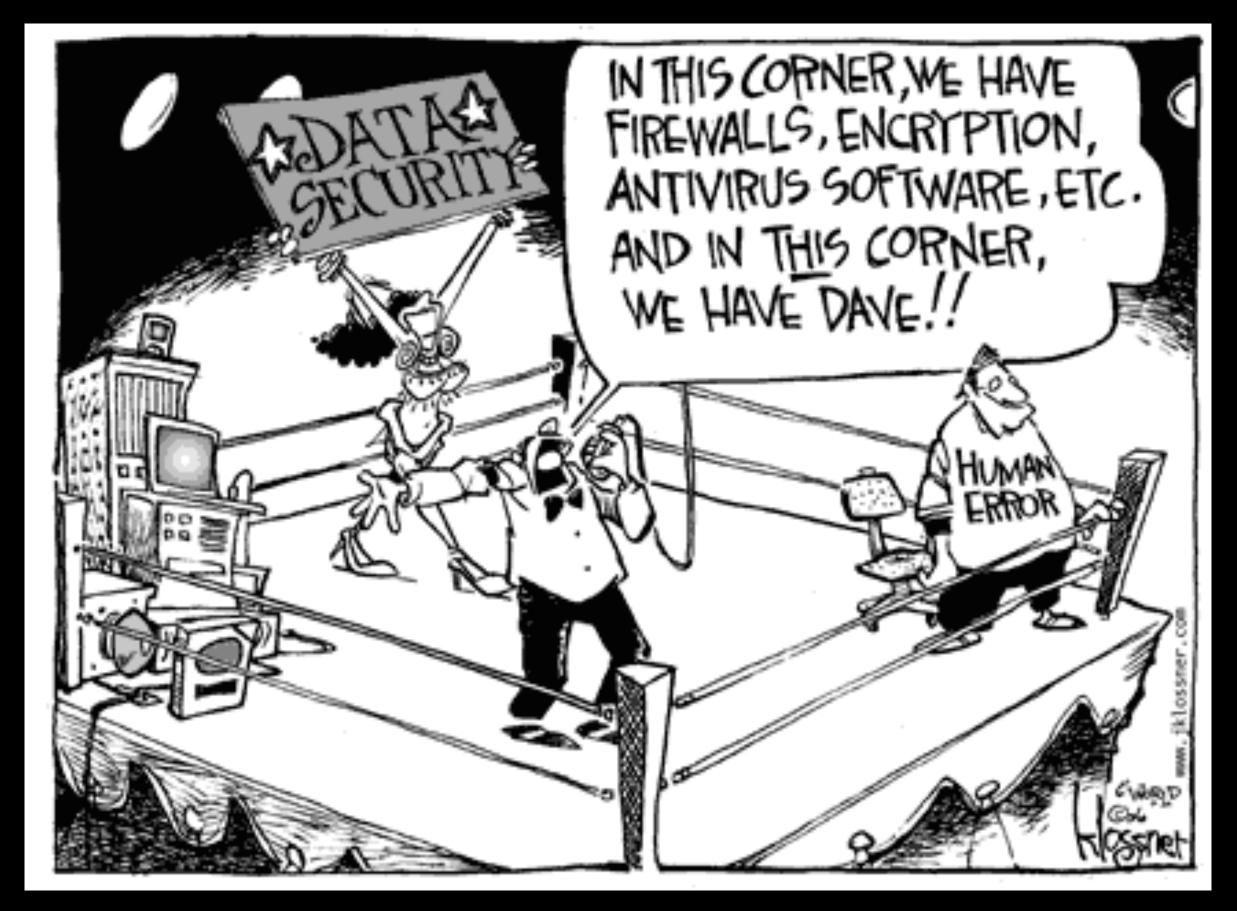
Please go to:

https://github.com/JATOS/JATOS/wiki/Workshop-2016-Links

And install:

• Visual Studio Code • Workshop Go/No-Go example

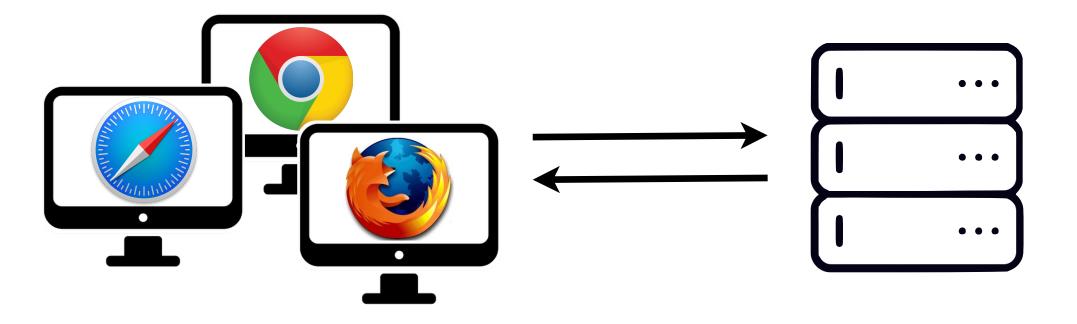




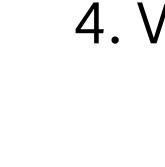
Bonus Part 4: Data Privacy



1. CLIENT SIDE IS OPEN TO EVERYBODY: DO NOT STORE PERSONAL DATA IN HTML



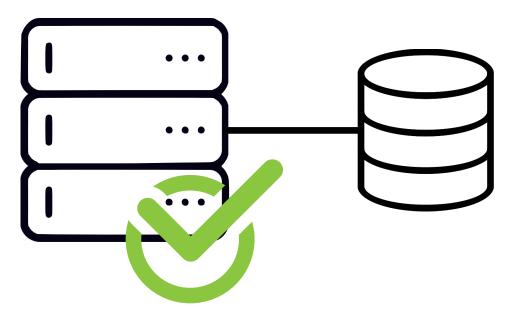
3. COOKIE POLICY IN EU





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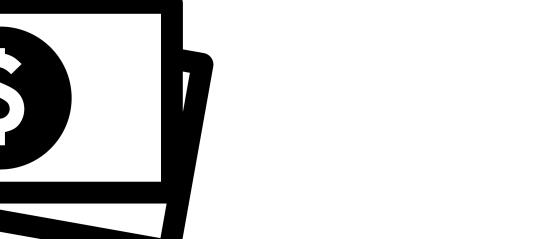
2. PRIVATE SERVERS KEEP DATA PRIVATE, **CLOUD STORAGE DOES NOT**





4. WORKER PAYMENT





https://

ANY QUESTIONS?

