

At its most basic level, (Remote Psychophysical Rendering) RPR is a language to specify actions (typically displaying visual elements) for rendering on another device, ideally with a generic distribution.

The use cases are very specific.

1. Sensation & Perception Labs
2. Enable remote psychophysics experiments
3. Allow integration of a variety of hardware

Goals: - Sufficient for experiment in “low-level” vision. Thus requirements: - control of timing - control of visual display - pixel-accurate - luminance/contrast levels

Why JavaScript? - JavaScript really runs *everywhere*, (computers, phones, tablets), and is the basis of the Web, so is a robust choice. Previously, I wrote experiments in Python&PsychoPy, which I loved, but how to then distribute these to other computers? It’s not trivial.

### Existing projects: Online Psychology Experiment-builders

There are a wealth of projects that allow simple “design and execution of psychology experiment on the web.” For example: Pavlovia, Gorilla, Lab.js, Testable, new Nakayama one (many more).

Our needs are quite different. For our teaching labs, subjects are expected to participate in experiments, but needn’t be involved in their creation.

Psych Lab 101 for iPad	What	Cool
Isee	neat	Okay
1	2	3

Names: master/slave doctor/patient server/client super