

Driving: Vibrating motor

Restoring: None, or elastics

Support: rollers or brackets (sides)

Notes: hobby motor (high voltage?) w/ off center weight attached to underside of tabletop (or multiple)

- Factors: voltage, speed, torque

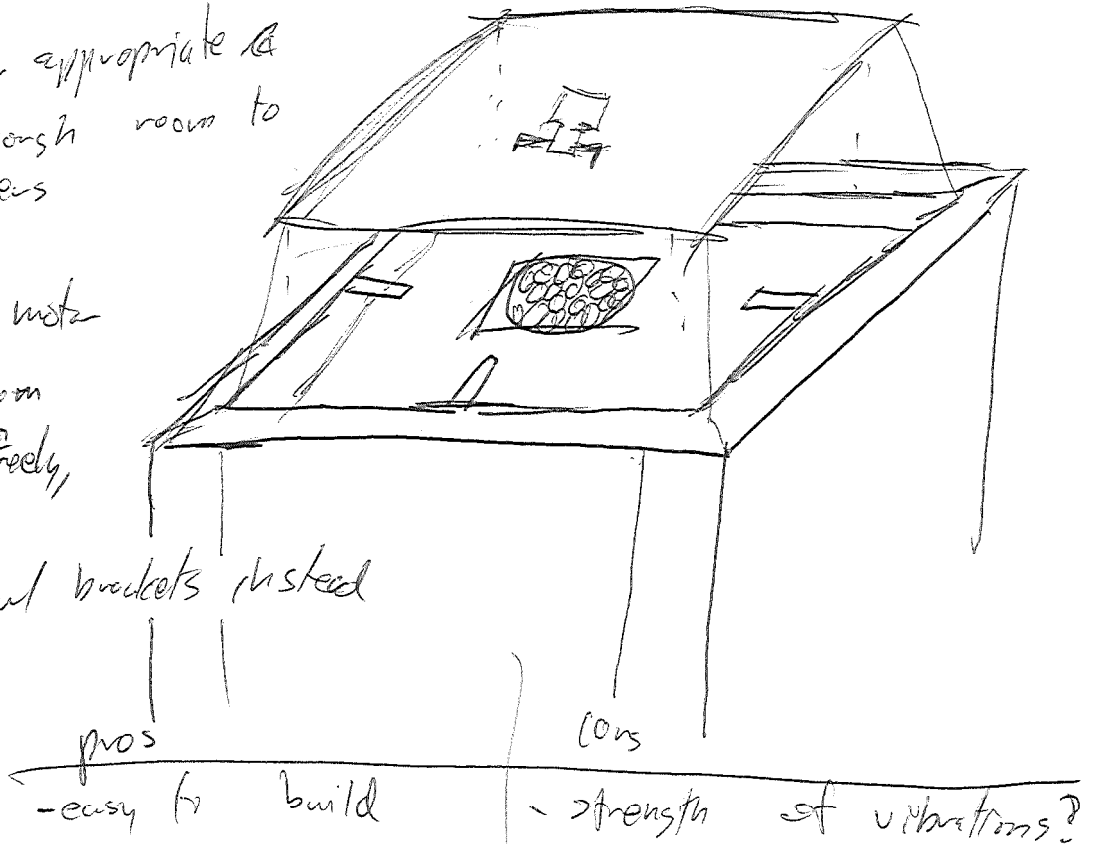
Materials: motor, off-balance weight(s), appropriate circuit, mount to give weight enough room to spin, mount and constraint for rollers

Construction: attach appropriately sized motor to underside of tabletop w/ room for off-center weights to spin freely, support w/ rollers (on mounts) from platform. Possibly support w/ brackets instead

Parts needed: ~~way to a~~ motor - mount (under tabletop), roller mount, roller constraint, (more brackets)

→ use plywood, electrical conduit or huge zip ties (brackets), mount - 30 print shapadochs top motor then mount on thin plywood, superglue to table top

(if achievable)



Driving force: wheel or tank tread w/ gear-box

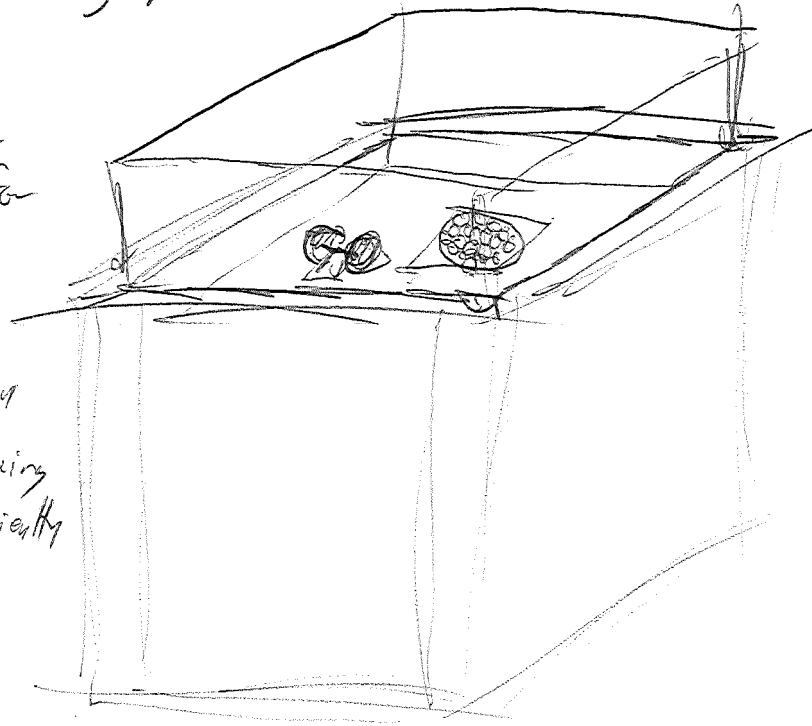
restoring: none, or elastics

Support: rollers (marbles 2D, or wheels 1D)

Notes: Tabletop should be weighted to ensure grip

Materials: gear-box, toy tires or tank tread,  
rollers, roller constraints, mount for  
motor, mount for roller

Construction: tabletop should rest evenly on  
driver, supports. Accomplish by spacing  
mounts vertically. weight tabletop sufficiently  
for driver to grip



Parts needed: driving wheels, roller mount,  
roller constraint, motor mount,  
(elastics)

↳ toy tires for gear-box, spare plywood incl.  
2" x 0.5" x L" piece for motor, conduit or  
grout zip tie

pros	cons
<ul style="list-style-type: none"><li>- motion fully controlled</li><li>- know how to construct</li></ul>	<ul style="list-style-type: none"><li>- requires precise height calibration</li><li>- tabletop can slide</li></ul>

Driving and Resting: Springs

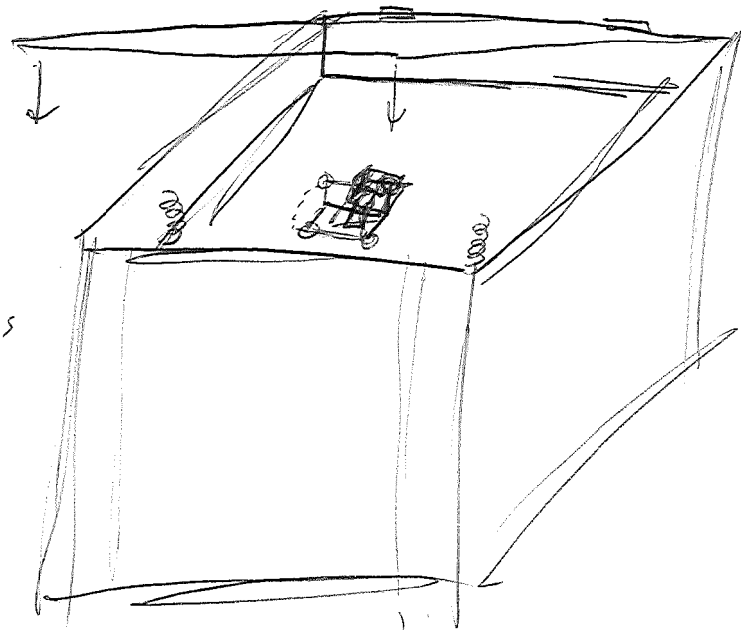
Supports: Springs + removable support (motor-controlled)

★ Maybe hinge one side of table top, springs and driven support on other side

Notes: Support should be sturdy, create~~d~~ little friction, roll against table underside

Materials: high torque stepper/ servo/ soil wind motor, right angle attachments for motor shaft / support

Construction: figure out how to build right angle supports on to servo or soil wind, if possible attach roller to support, attach/ constrain springs @ corners (vuc?)  
★ maybe add flat fixture to top of springs to prevent bending against tabletop



Parts needed: hinges, springs mounts (vuc), stepper/ wind motor(?)

Pros	Cons
<ul style="list-style-type: none"><li>- fully constrained</li><li>- variable motion</li></ul>	<ul style="list-style-type: none"><li>- how to create support</li><li>- unknown spring constant</li></ul>