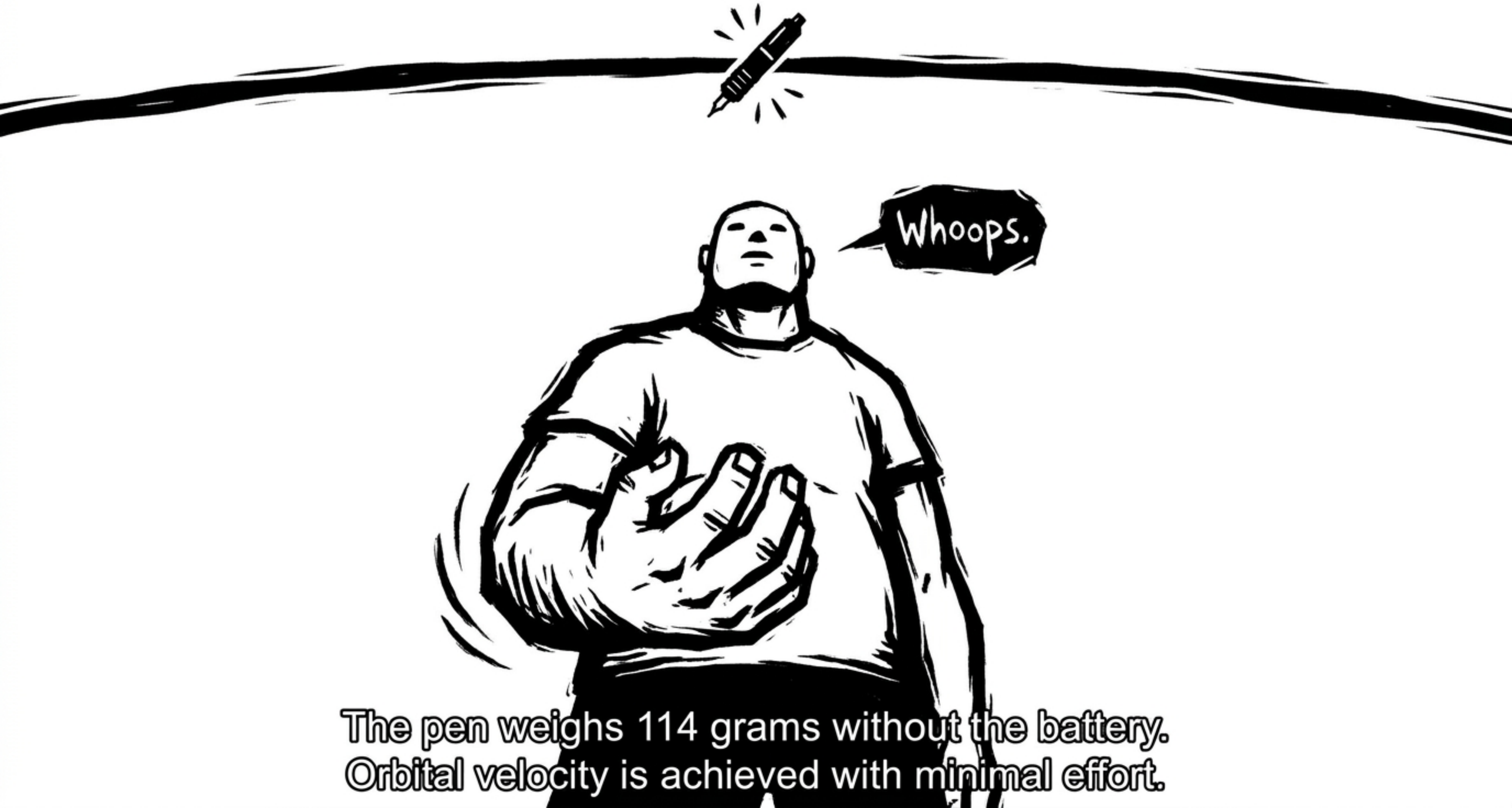

Whoops.
The pen weighs 114 grams without the battery.
Orbital velocity is achieved with minimal effort.