

MODIFYING ZENS

Getting more out of a problematic instrument.



Driving Question

How can we simplify and modify an existing system to fit our needs and procedures?

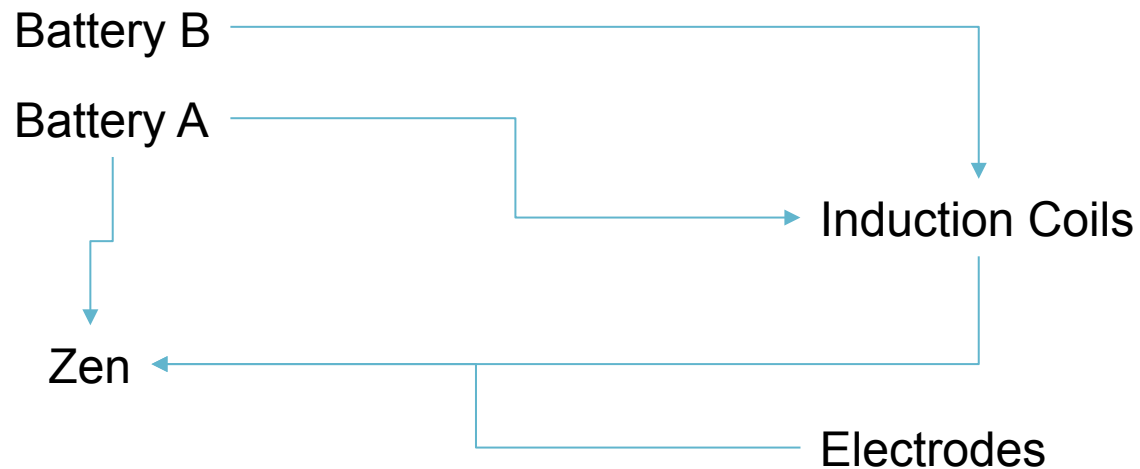
What is the Zen

- Started out as a joint collaboration project
- 32 bit 5 channel system with modular design
- Power hungry – 9 watts



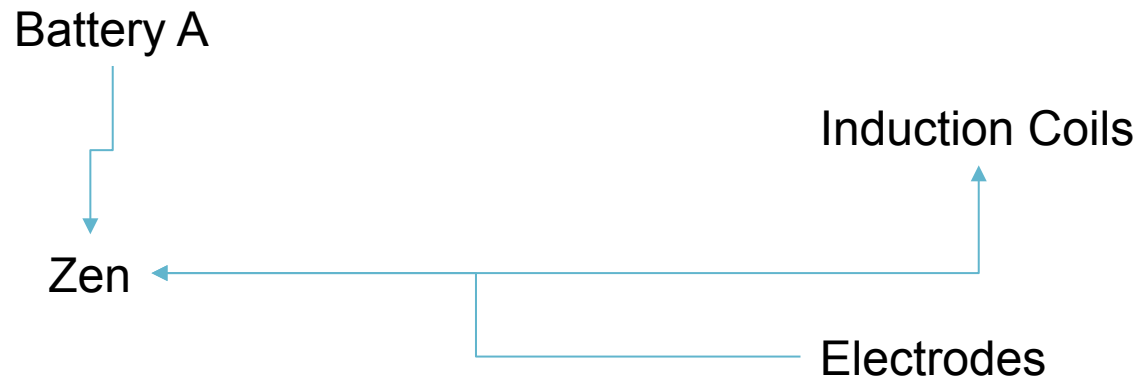
Hardware Improvements

- Simplify problematic wiring harness



Hardware Improvements (cont.)

- Internal power configuration
- Low Voltage Protection



Hardware Improvements (cont.)

- Shielded signal wires
- Removed front end complexity
- Lightning Protection



Software Improvements

- Windows to OS X conversation
 - Fit the current NGF workflow
 - Processing Software
- Simplify and minimize chances for user errors



