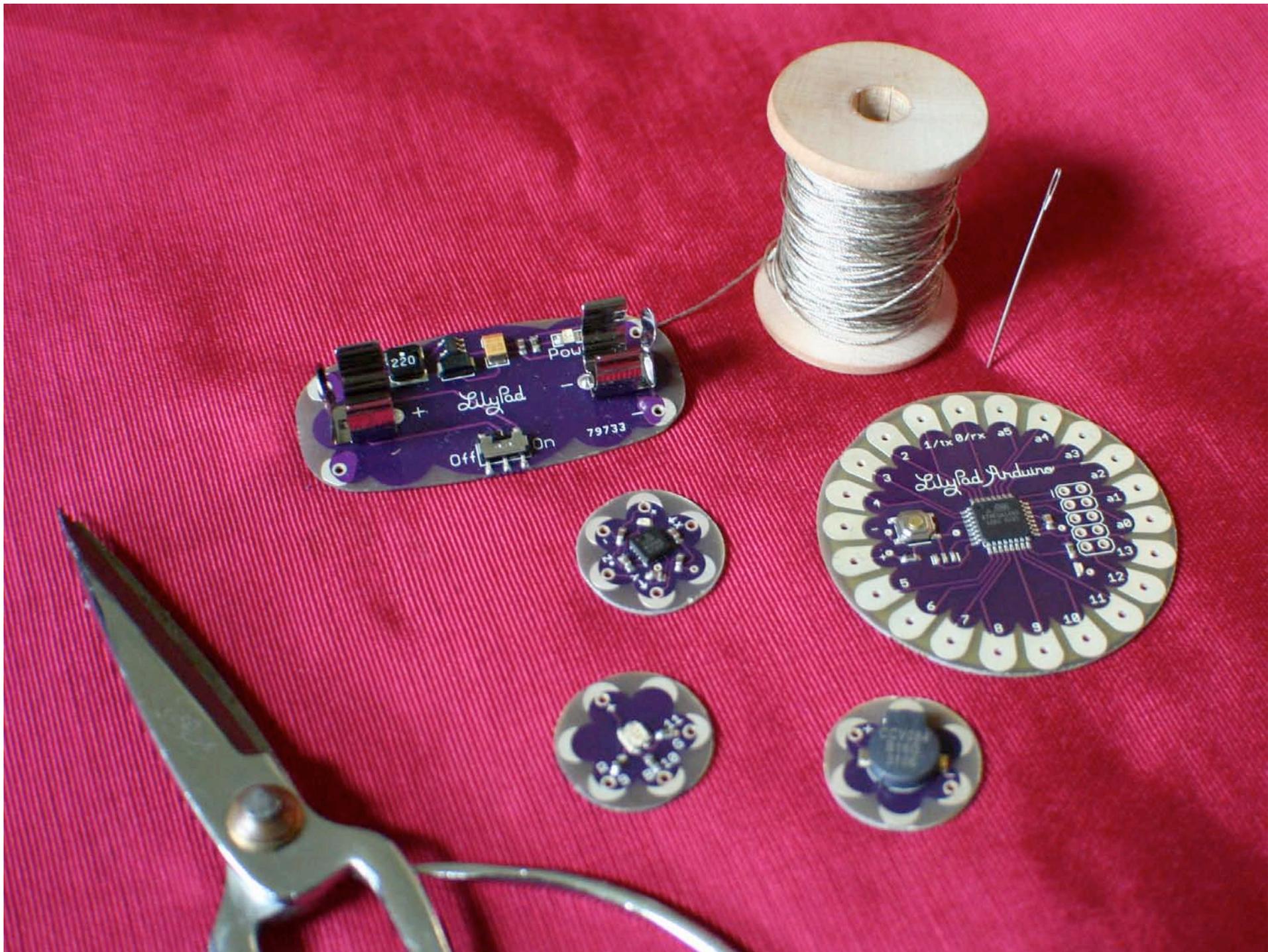


high-low Leah

rethinking cultural and material contexts
for computing

Leah Buechley
MIT Media Lab
leah@media.mit.edu



empowerment

democratization

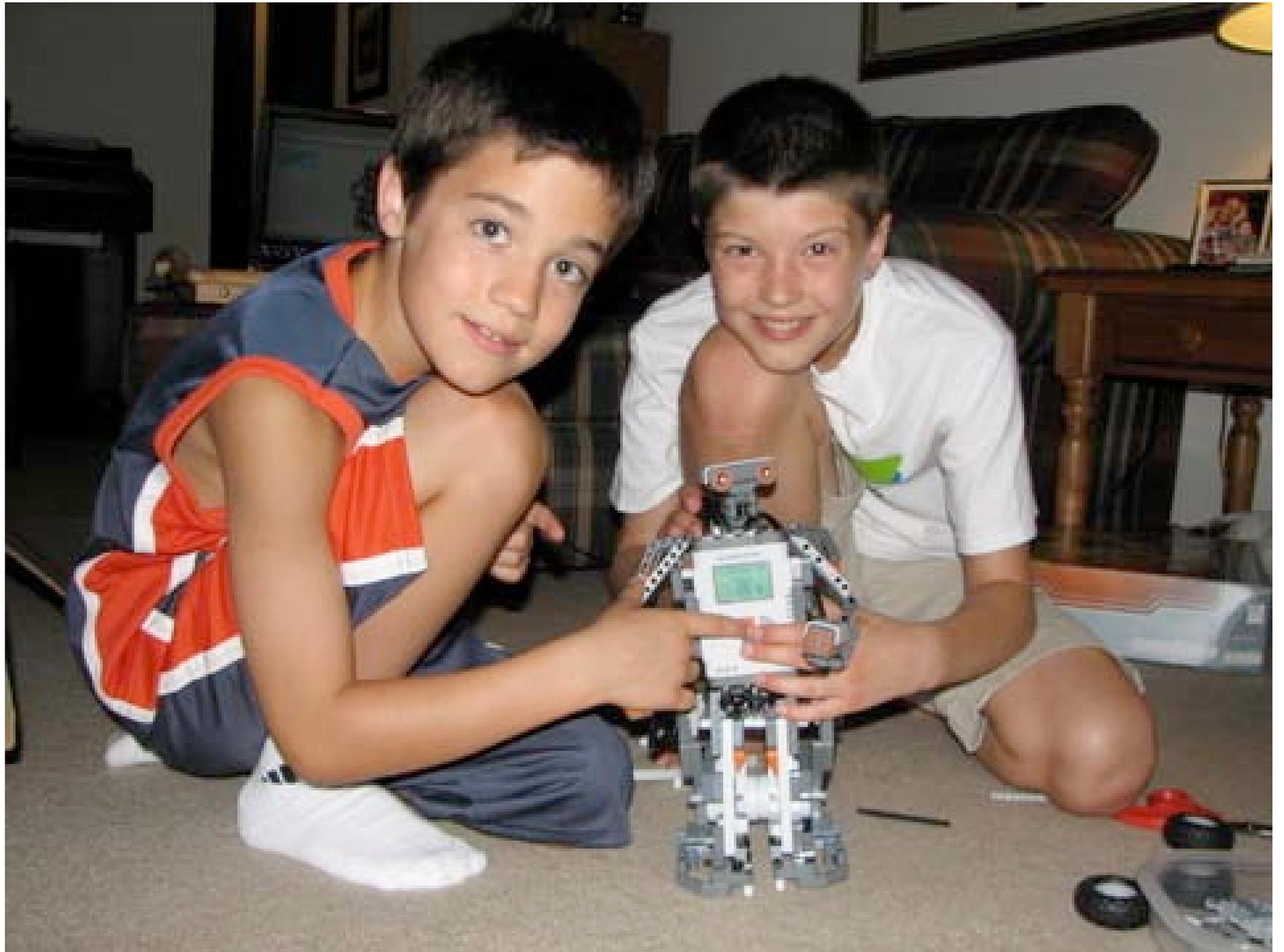
democratization =

making stuff accessible
and easy

what's missing?

context

what contexts has
technology democratization
taken place in?



who has been left out?



what other things do people make,
passionately and creatively?



high-low tech

how might democratized technology,
physical materials, and culture
intersect in new ways?

watch & listen: look at what and how different cultures build

invent: explore new combinations of materials and technology

democratize: make these new technologies accessible to others

watch & listen: deploy our tools and see what happens

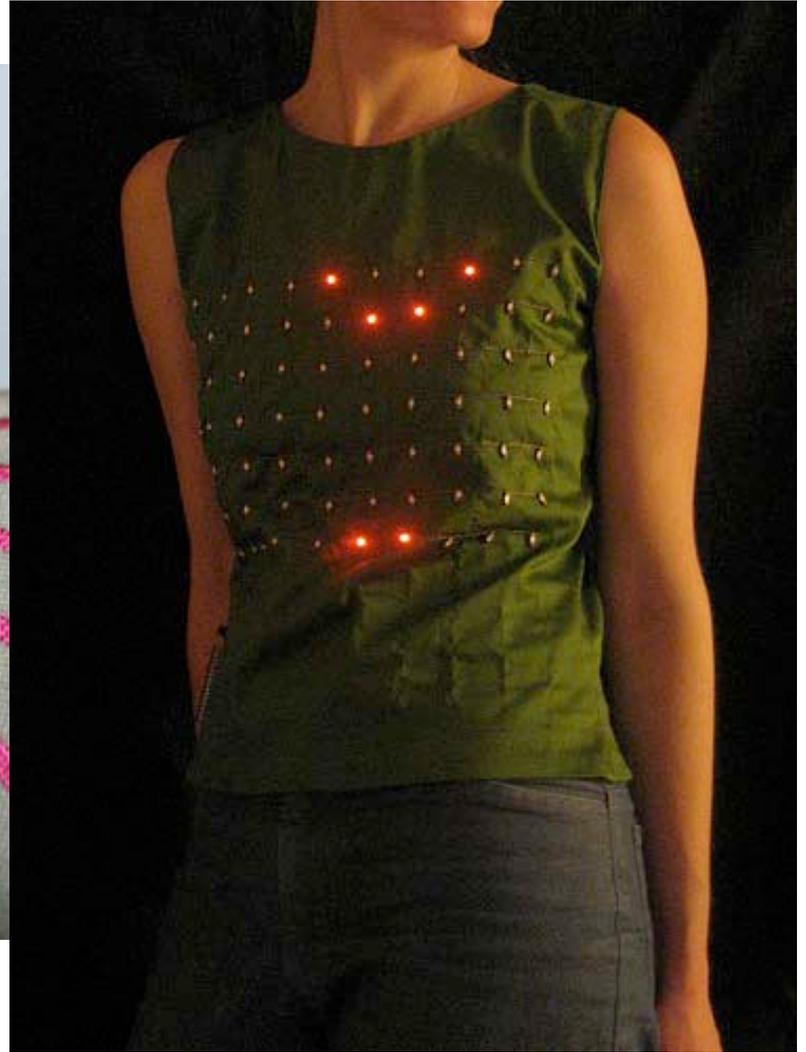
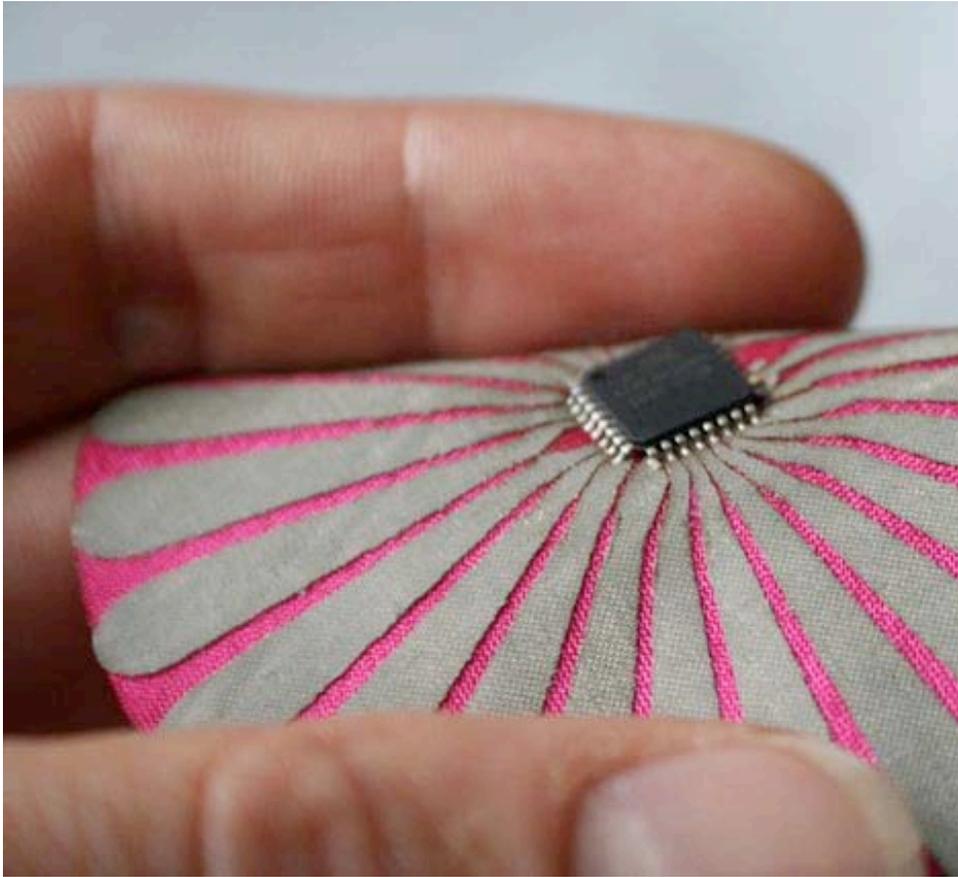
the story of LilyPad Arduino:
a high-low tech case study

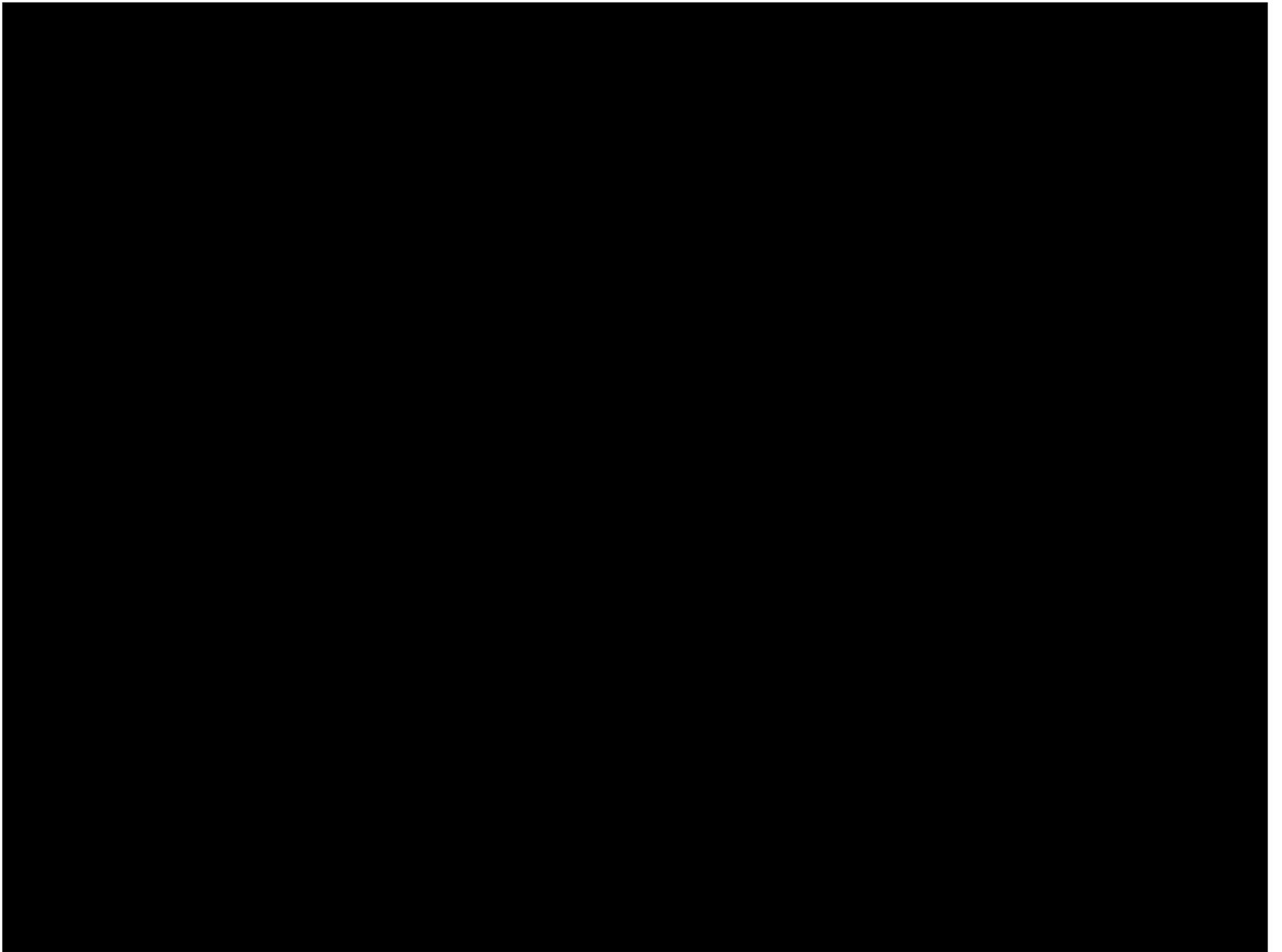
watch & listen: look at what and how different cultures build





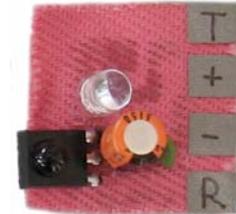
invent: explore new combinations of materials and technology





democratize: make these new technologies accessible to others

LilyPad Arduino



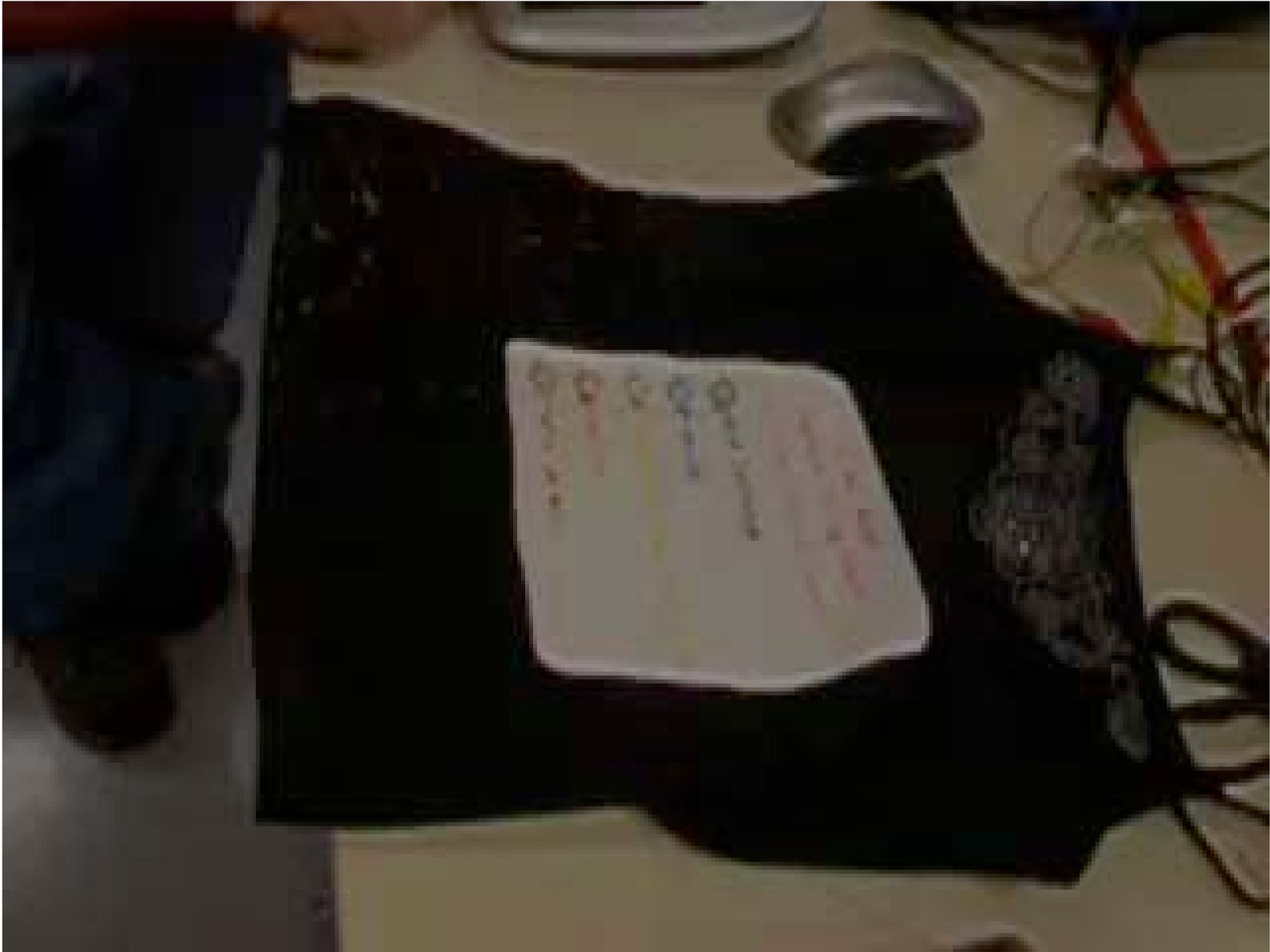
watch & listen: deploy our tools and see what happens

“Electronic Fashion” classes







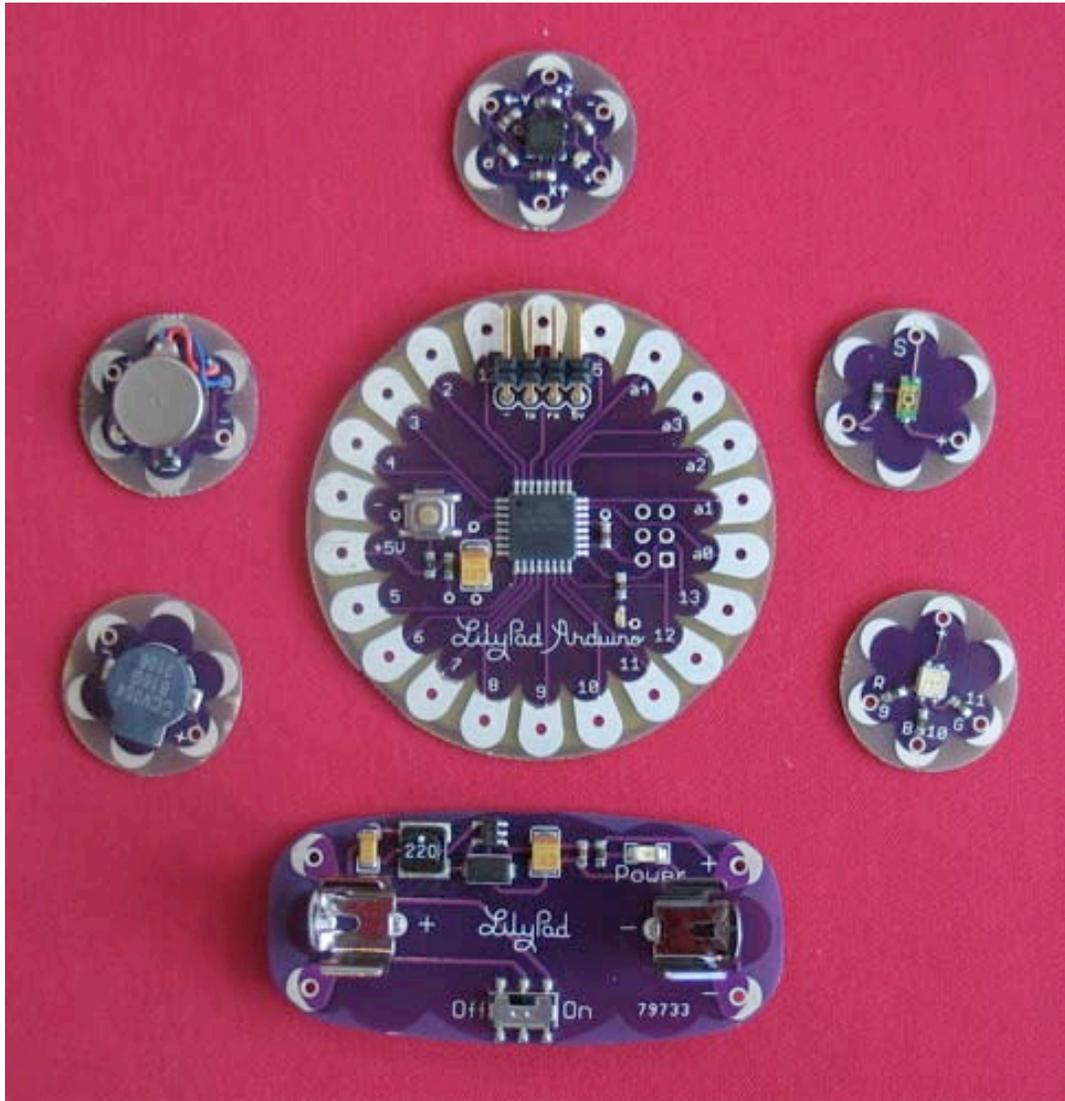








democratize part 2





Becky Stern

**Hannah Perner-Wilson
and Mika Satomi**

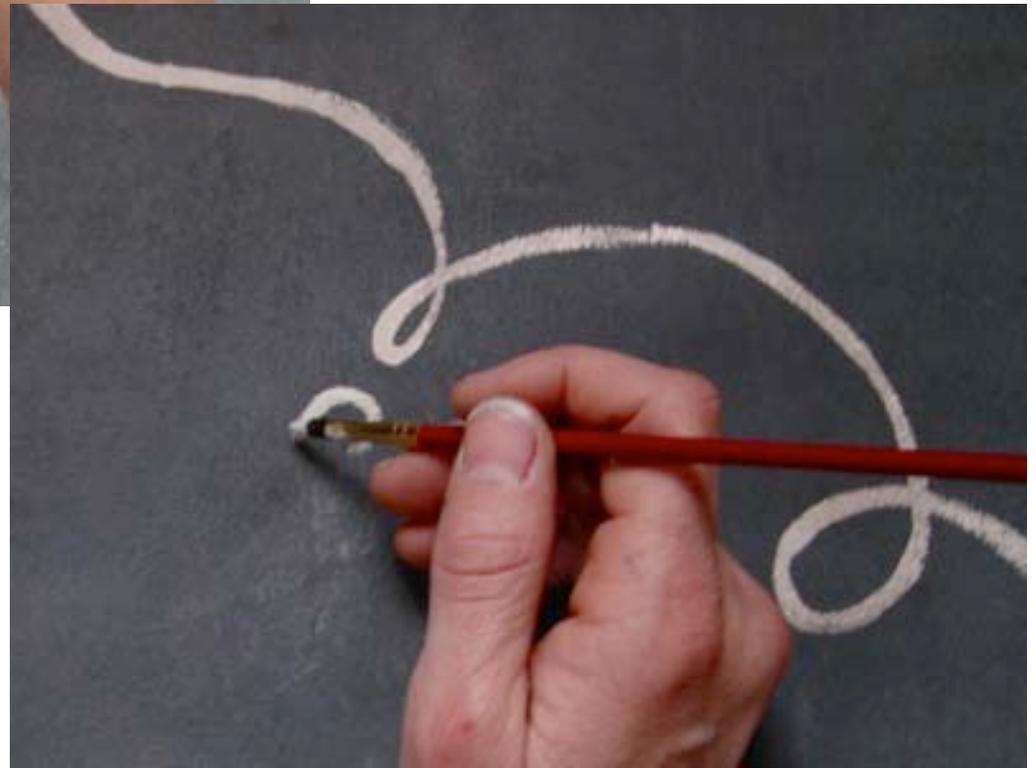


Diana Hughes



a newer example:
Paper Computing

invent: explore new combinations of materials and technology





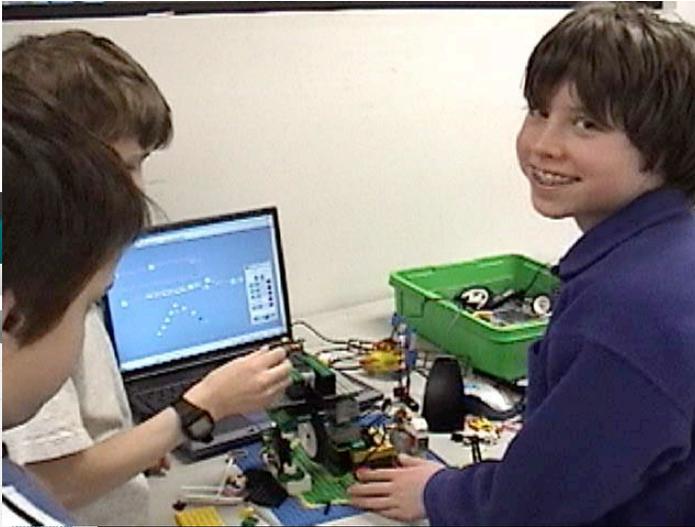


democratize: make these new technologies accessible to others

a kit for paper computing



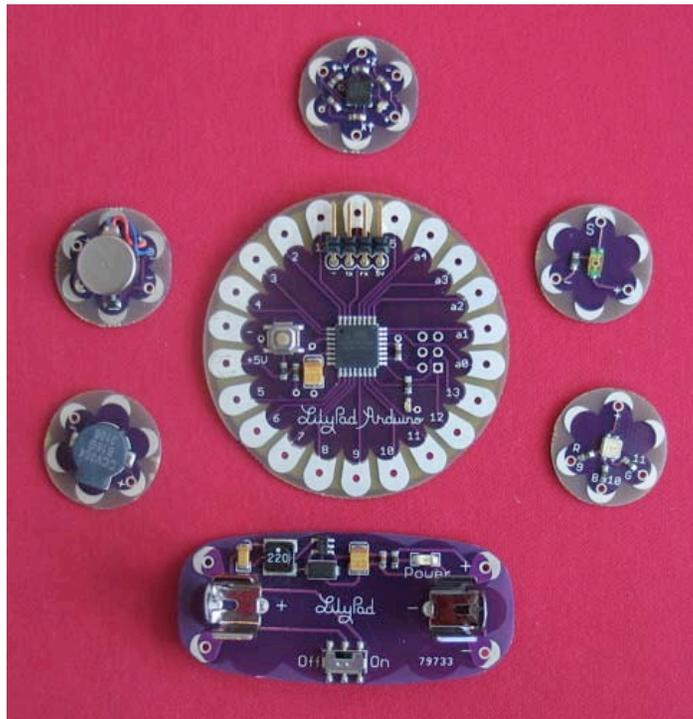
stepping back...



```
intelviews  
Linux  
Mot  
Sci  
YR  
Site  
FAQ  
bracelet.c:195: error: conflicting types for 'set_array_element'  
array_display.h:57: error: previous declaration of 'set_array_element' was here  
bracelet.c:195: warning: data definition has no type or storage class  
bracelet.c:196: error: syntax error before numeric constant  
bracelet.c:196: warning: type defaults to 'int' in declaration of 'set_array_element'  
bracelet.c:196: error: conflicting types for 'set_array_element'  
array_display.h:57: error: previous declaration of 'set_array_element' was here  
bracelet.c:196: warning: data definition has no type or storage class  
bracelet.c:197: error: syntax error before numeric constant  
bracelet.c:197: warning: type defaults to 'int' in declaration of 'set_array_element'  
bracelet.c:197: error: conflicting types for 'set_array_element'  
array_display.h:57: error: previous declaration of 'set_array_element' was here  
bracelet.c:197: warning: data definition has no type or storage class  
bracelet.c:198: error: syntax error before numeric constant  
bracelet.c:198: warning: type defaults to 'int' in declaration of 'set_array_element'  
bracelet.c:198: error: conflicting types for 'set_array_element'  
array_display.h:57: error: previous declaration of 'set_array_element' was here  
bracelet.c:198: warning: data definition has no type or storage class  
bracelet.c:199: error: syntax error before numeric constant  
bracelet.c:199: warning: type defaults to 'int' in declaration of 'set_array_element'  
bracelet.c:199: error: conflicting types for 'set_array_element'  
array_display.h:57: error: previous declaration of 'set_array_element' was here  
bracelet.c:199: warning: data definition has no type or storage class  
bracelet.c:204:3: warning: no newline at end of file  
make: *** [bracelet.o] Error 1  
[Leahs-PowerBook:~/avr_c_code/bracelet_2007] LeahN
```



thank you!



questions?

Leah Buechley

<http://hlt.media.mit.edu>

leah@media.mit.edu