

4156

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revisit big board & burn down chart

pair programming  
or pair design, pair testing  
pair xxx

who has already done?

class

interview  
(audition)

work

pair programming is 2 people sitting  
at same PC

(or same desktop, remotely)

- take turns "driving"

- other does continuous code review  
"navigator"

Various studies show higher quality  
mixed results on productivity  
(does it take twice as long?)

organizations that use pair programming  
typically shift pairs around frequently

- collective code ownership

- limits risk if employee leaves

read the kindergarten principles paper

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## benefits of pair programming

- shared responsibility
- stay focused on task
  - less likely to read email, surf web
  - less likely to be interrupted
  - shared time treated as more valuable
- each expects the other to follow prescribed coding practices
- two people can solve problems that couldn't be solved alone, or come up w/ better solutions
- help improve each others skills
- pool knowledge resources
- "over the shoulder" defect prevention & removal
  - programmers often don't notice their own glaring errors that are obvious to anyone else

need appropriate workspace layout  
need to sit side by side  
& simultaneously view screen  
slide keyboard & mouse back & forth

any work done separately needs to be reviewed  
TOGETHER

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show pair programming slides

see proposal examples M  
files & resources