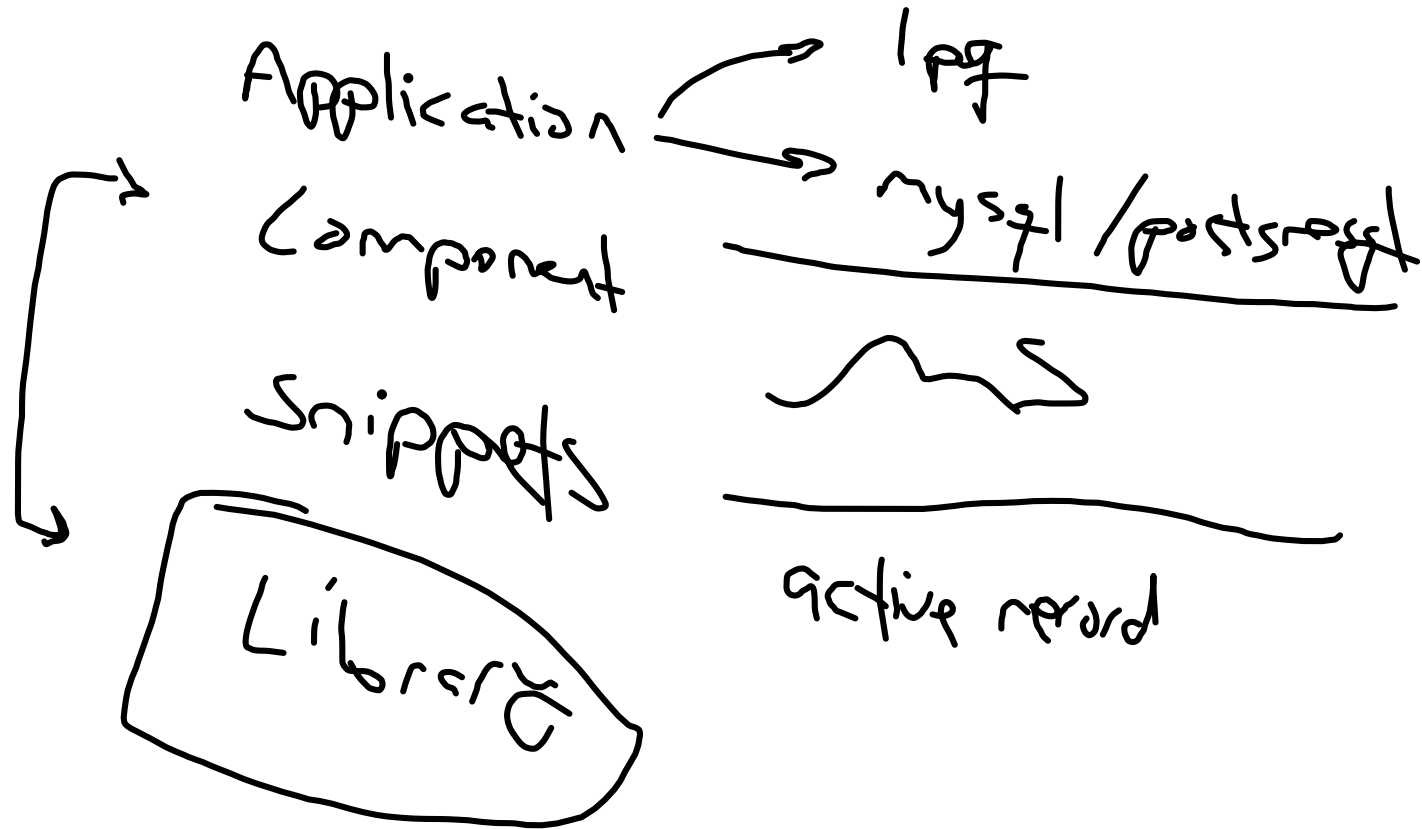


# Software Reuse

## 1. Different Scales of reuse



Libraries - specifically exists  
to be ~~to~~ used

(use pieces)

Component - Specifically exists

... to be used

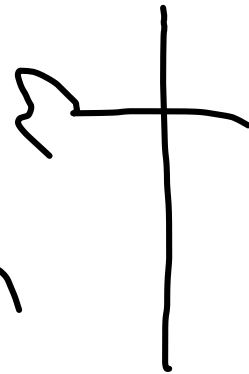
(Use the entire thing)

What factors promote/  
inhibit reuse?

① licenses/copyrights

②

quality  
reliability  
documentation



Open source  
vs  
closed source

When not want to reuse sw?

1. when more than what you need?

2. cost of use is  $\geq$  cost savings

3. legal "stuff"

4. resource or distinctly constraints

# Design Patterns

① allow reuse of expertise

② patterns → codified  
"into libraries or  
frameworks  
for (Person P in people) }

# Two Significant Problems w/ Patterns

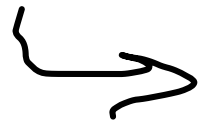
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① genericity  $\rightarrow$  inefficient  
non-specificity

Generator-based Software  
reuse

Ruby on Rails



generators