ZOMGIIII

HAPPY THURSDAY!!

WELCOME TO RubyConf X!

X-TREME RUBYCONF!!!!!

Aaron Patterson



WWFMD?

Performance



Rails

Prepared Statement Caching

DEEPER UNDERSTANDING REQUIRED

ActiveRecord 5x slower than Rails 2.3.5

http://bit.ly/omgslow

5x Slower?!?

WTF?



Yes, 5x Slower

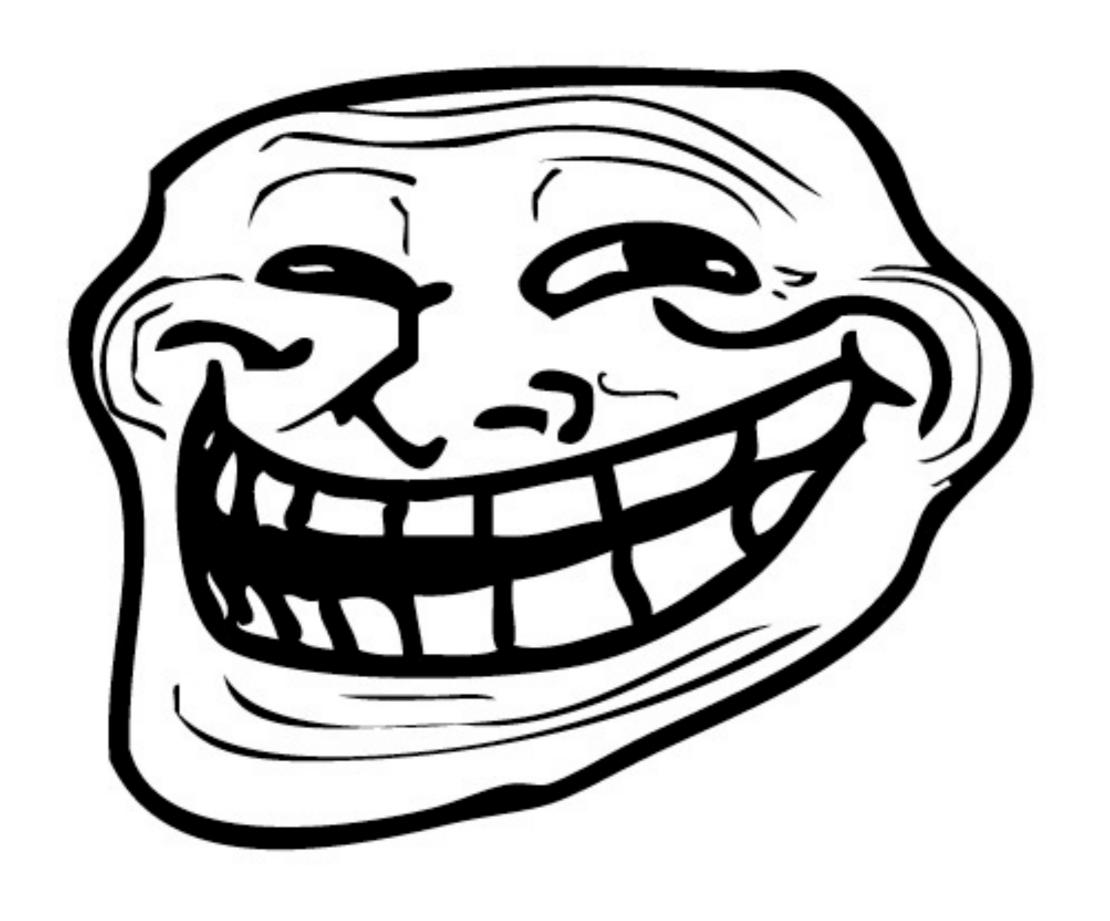
What could possibly go wrong?

Motivation

Why do you care about speed?

Scaling Ruby

```
duery_methods.rb (~/git/rails/a...lib/active_record/relation) - VIM1
        arel.join(join)
      end
      arel.joins(arel)
    end
    def build arel
      arel = table
      arel = build_joins(arel, @joins_values) unless @joins_values.empty?
      (@where_values - ['']).uniq.each do |where|
        where = Arel.sql(where) if String === where
        arel = arel.where(Arel::Nodes::Grouping.new(where))
      end
      arel = arel.having(*@having_values.uniq.reject{|h| h.blank?}) unless @havi
ng_values.empty?
      arel = arel.take(@limit value) if @limit value
      arel = arel.skip(@offset_value) if @offset_value
      arel = arel.group(*@group_values.uniq.reject{|g| g.blank?}) unless @group
values.empty?
      arel = arel.order(*@order_values.uniq.reject{|o| o.blank?}) unless @order_
values.empty?
      arel = build_select(arel, @select_values.uniq)
      arel = arel.from(@from_value) if @from_value
      arel = arel.lock(@lock_value) if @lock_value
      arel
    end
    private
                     0-1, 195 of 267, (4572)
```



When should I make my code faster?

When it isn't fast enough.

What is "fast enough"?

Do people notice it?

In comparison to?

Finishes in a reasonable amount of time.

Don't believe me.

Think Critically

For Performance:

Things To Reduce

- Method calls
- Branching and looping
- Objects (memory consumption)

For Clean Code:

Things To Reduce

- Method calls
- Branching and looping
- Objects (memory consumption)



(therefore)

Clean Code

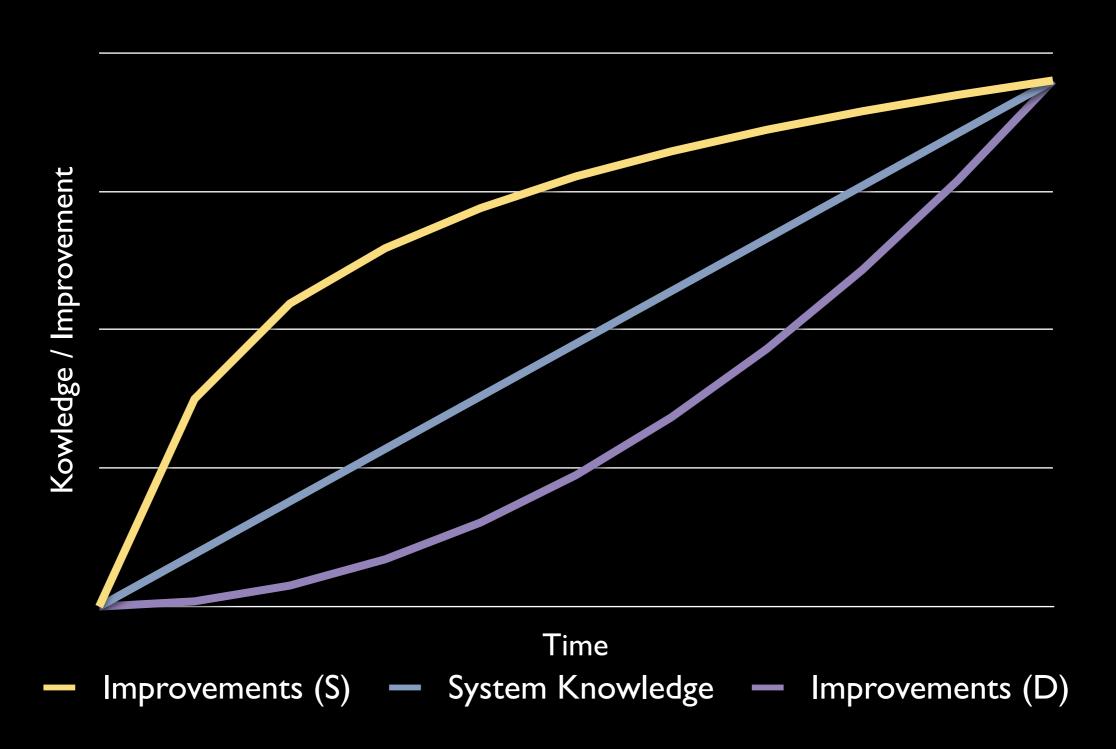


Performant code

Conclusion

AKA: Things I've Learned

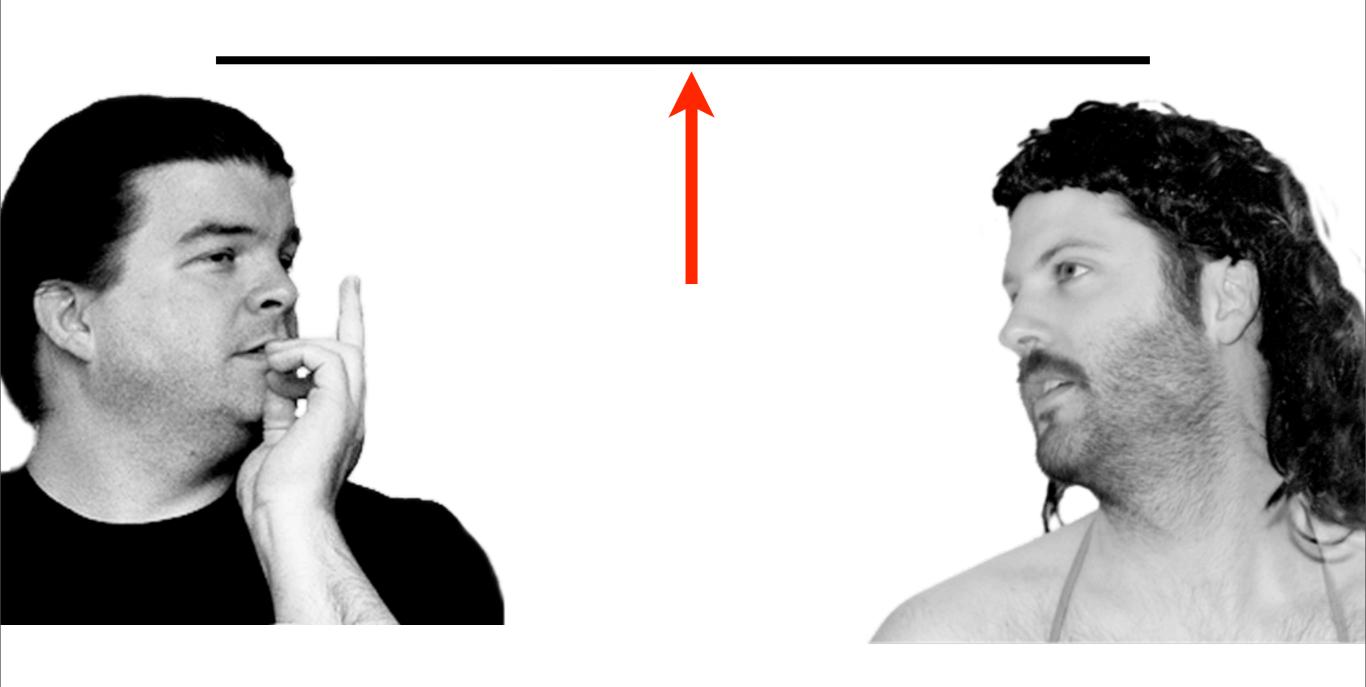
System Impact



When Should I Rewrite?

Rewrite Timeline

Rewrite Timeline



We emphasize the art of Code

We should not forget the Science