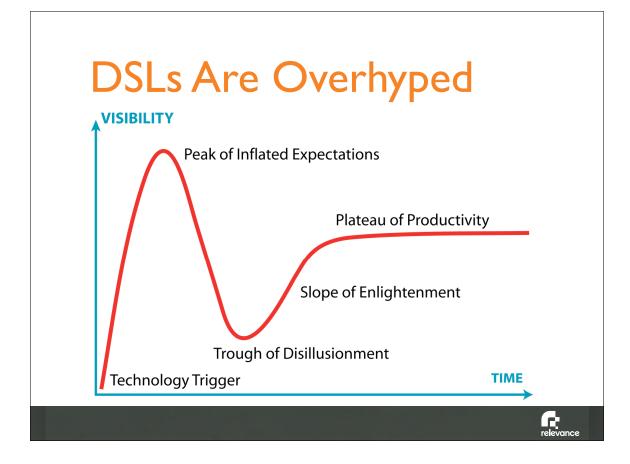
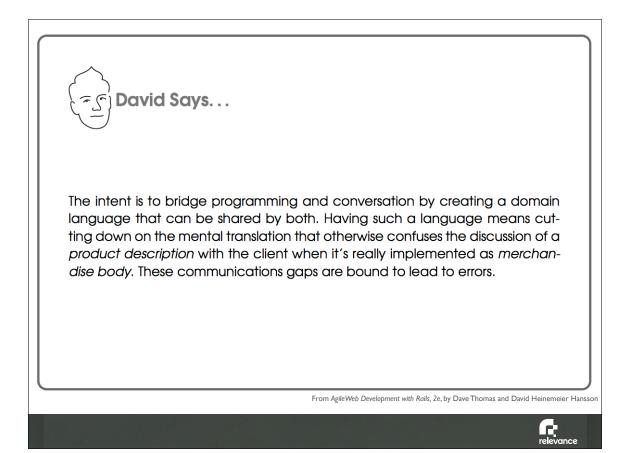


# The State of the DSL Art in Ruby

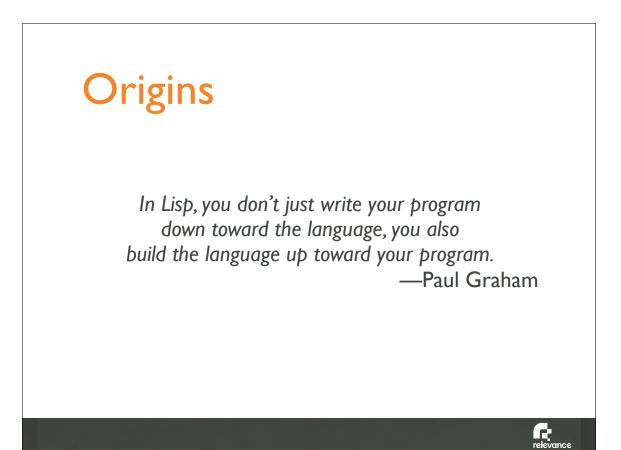
Glenn Vanderburg Relevance, Inc. glenn@thinkrelevance.com



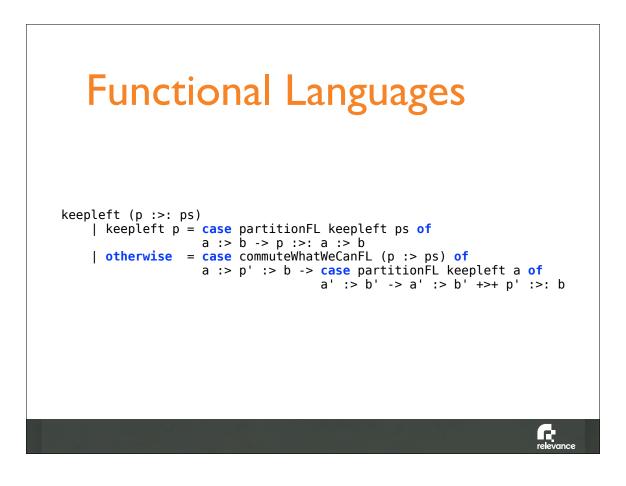


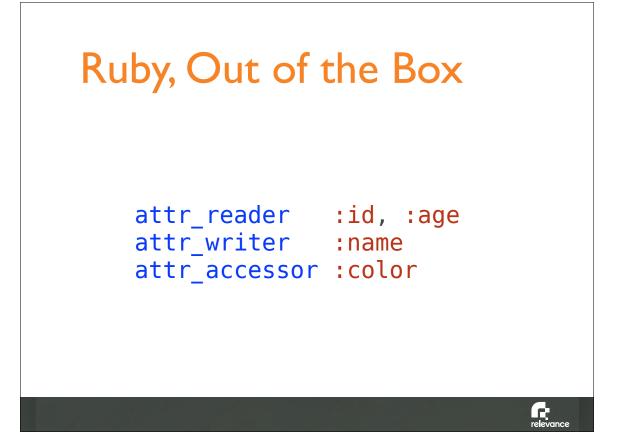


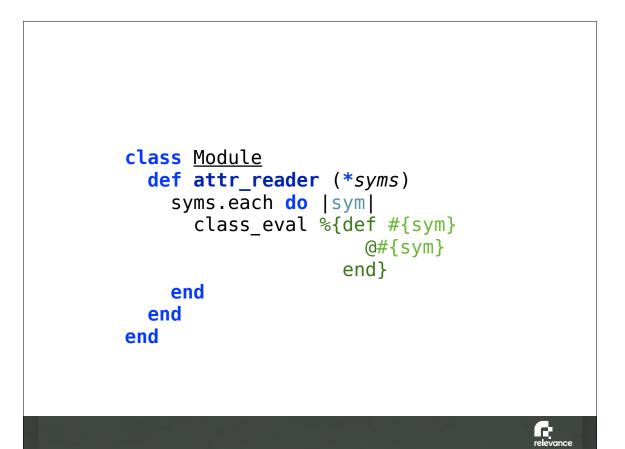


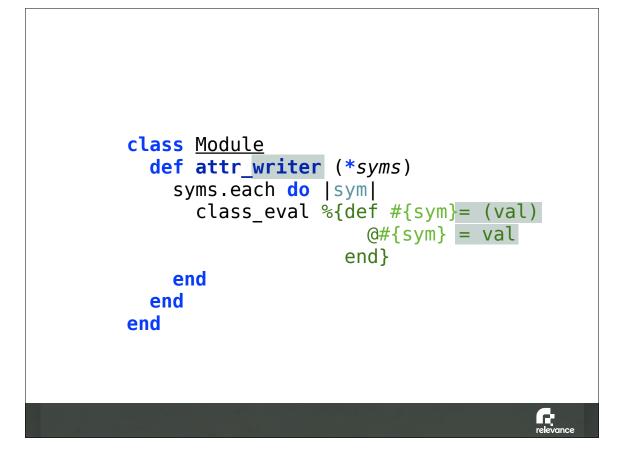


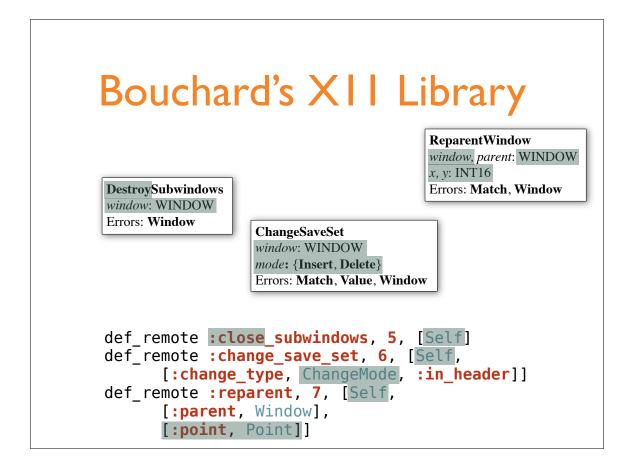




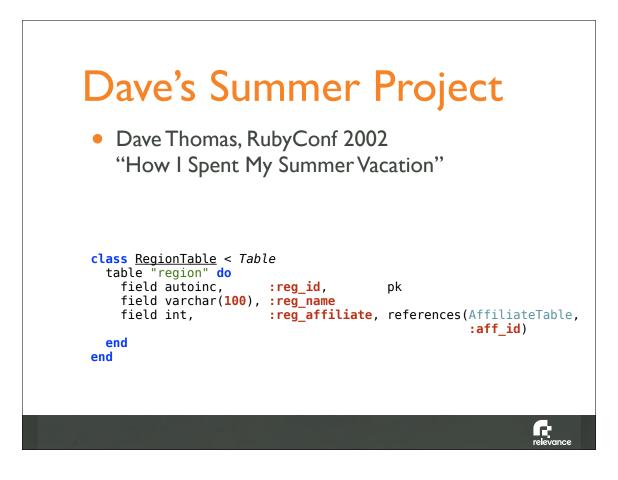








	nand (1)	he runtime type will be a class or an a
Out Data objectID	object	The object ID
Reply Data		
byte	refTypeTag	Kind of following reference type.
referenceTypeID	typeID	The runtime reference type.
	ReferenceType c = "Returns the	



#### Rails

```
class <u>CreateRegions</u> < ActiveRecord::Migration
  def self.up
     create_table :regions do |t|
     t.string :name
     t.belongs_to :affiliate
     end
  end
  def self.down
     drop_table :regions
  end
end
class <u>Region</u> < ActiveRecord::Base
  belongs_to :affiliate
end
```



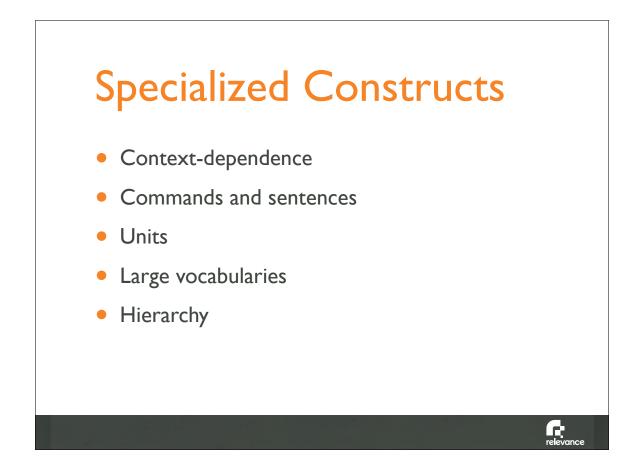
What Makes Internal DSLs Special?

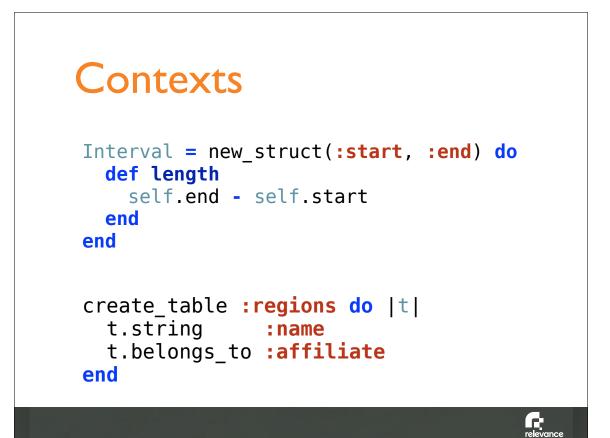
### General-Purpose Constructs

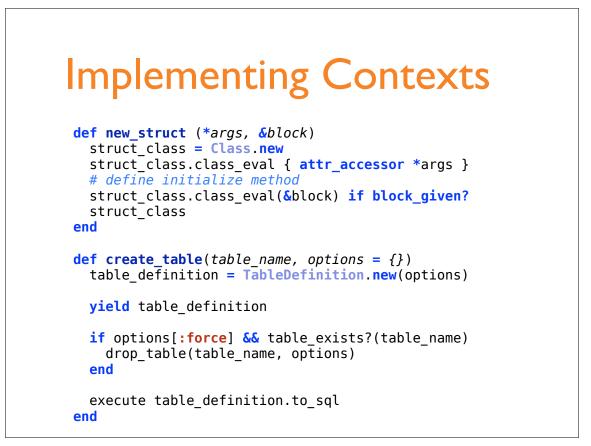
- Types
- Literals
- Declarations
- Expressions

- Operators
- Statements
- Control Structures

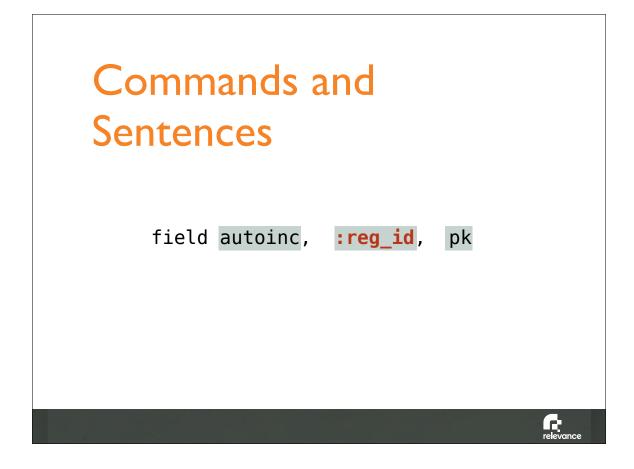


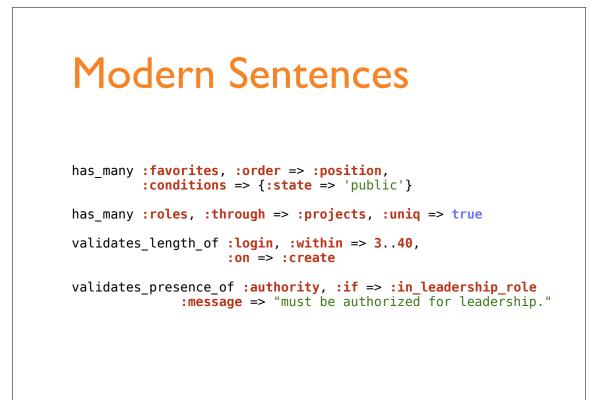




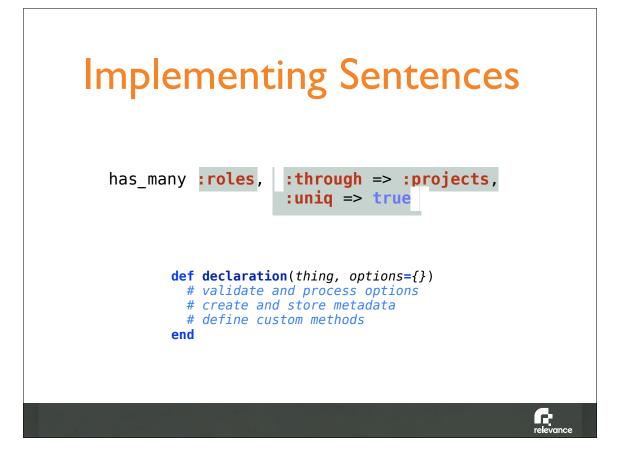


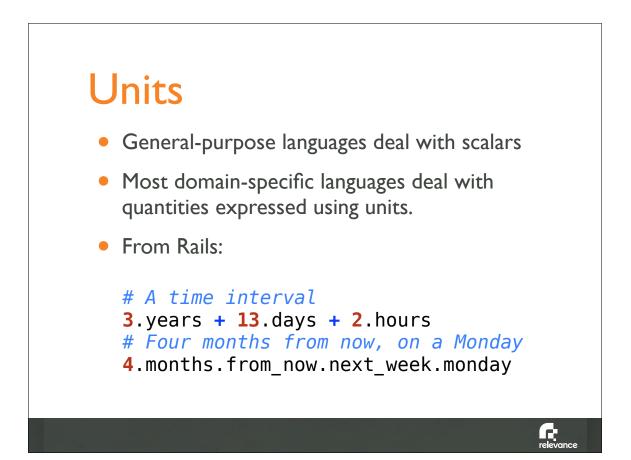


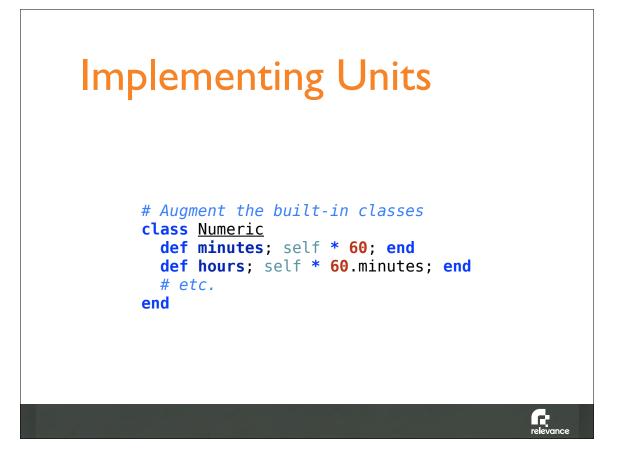


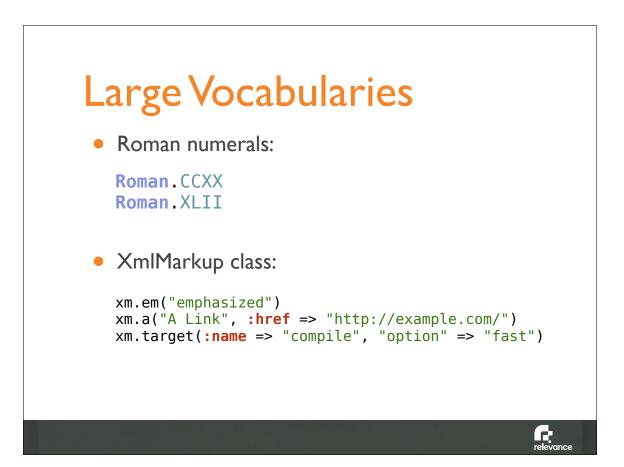


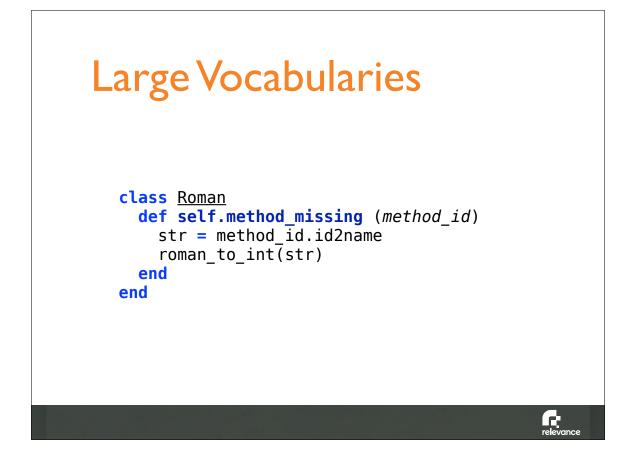
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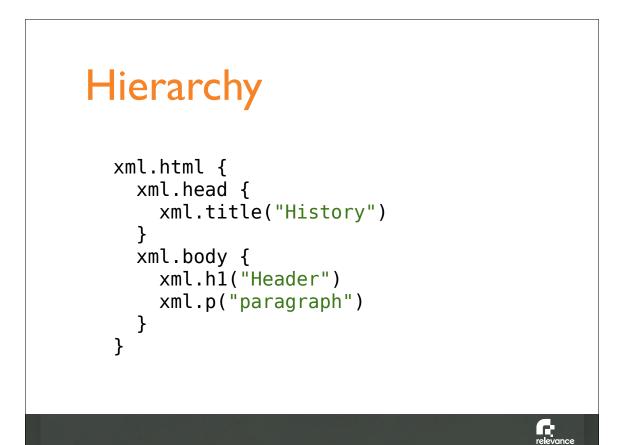


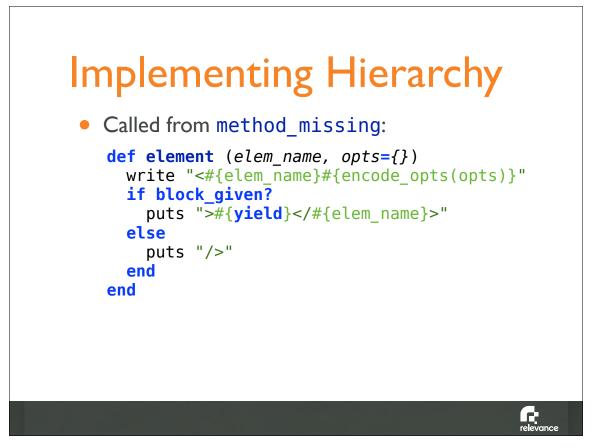




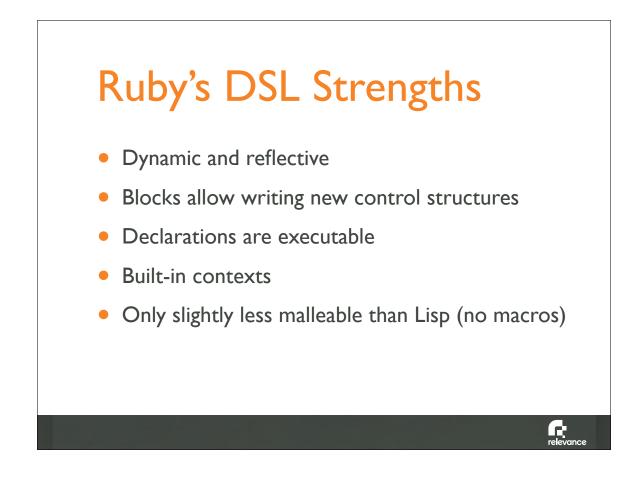


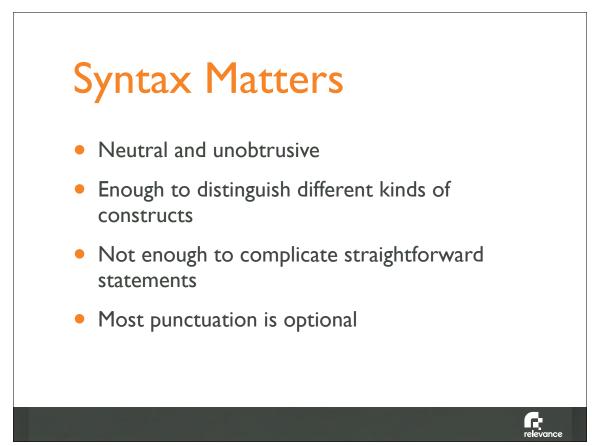










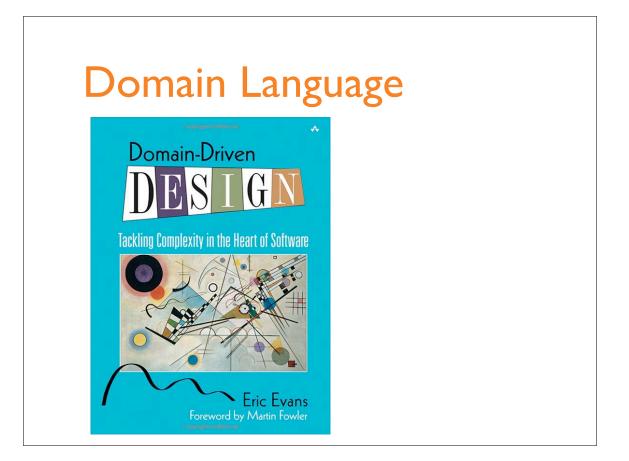


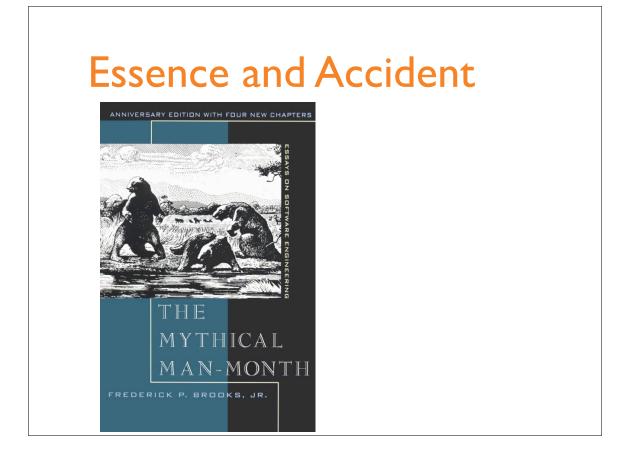
### DSLs != Magic Pixie Dust



Photo credit: Tracey Parker

relevance







Language and program evolve together. Like the border between two warring states, the boundary between language and program is drawn and redrawn, until eventually it comes to rest along the mountains and rivers, the natural frontiers of your problem.

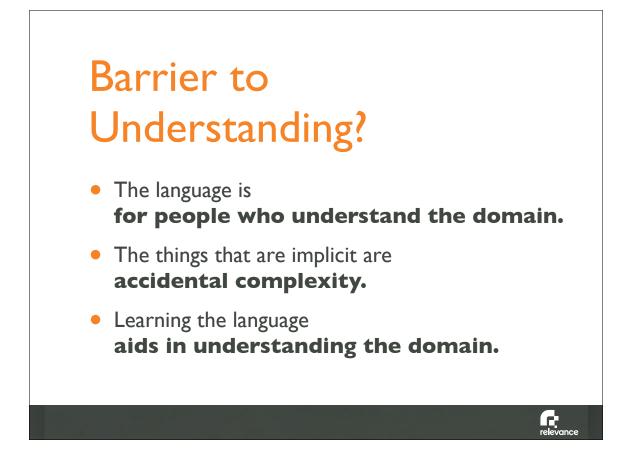
In the end your program will look as if the language had been designed for it. And when language and program fit one another well, you end up with code which is clear, small, and efficient.

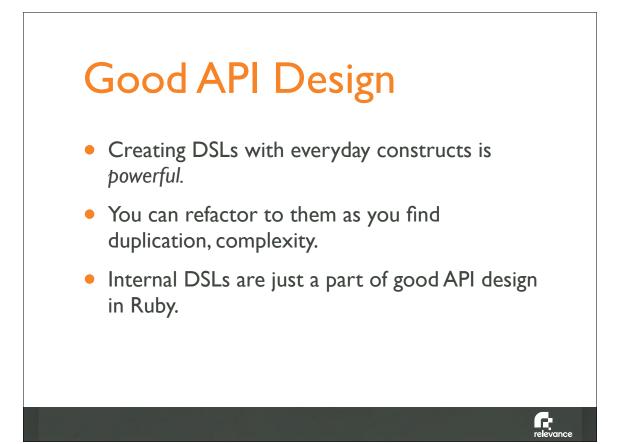
—Paul Graham

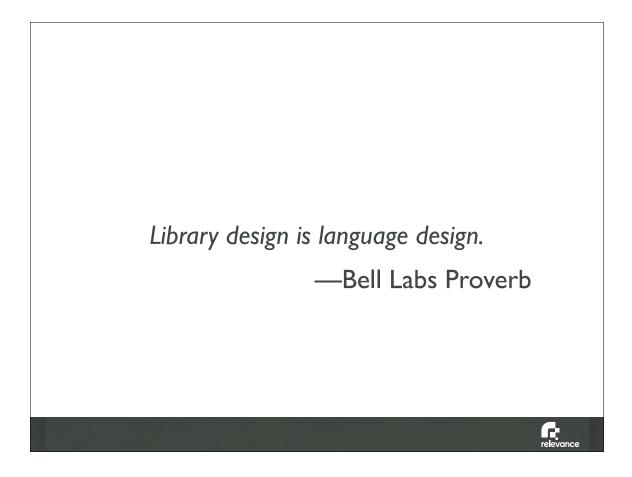
```
def create
  @post = Post.new(params[:post])
  respond to do [format]
    if @post.save
      flash[:notice] = 'Post was successfully created.'
      format.html { redirect to @post }
      format.xml { render :xml => @post,
                           :status => :created,
                           :location => @post }
    else
      format.html { render :action => "new" }
      format.xml { render :xml => @post.errors,
                           :status => :unprocessable_entity }
    end
  end
end
```

def new @post = Post.new respond\_to do |format| format.html format.xml { render :xml => @post } end end 









## What are DSLs Really Good For?

- Solid domain modeling
- More and better options when refactoring
- Customer communication
- Clean separation of essence and accident

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