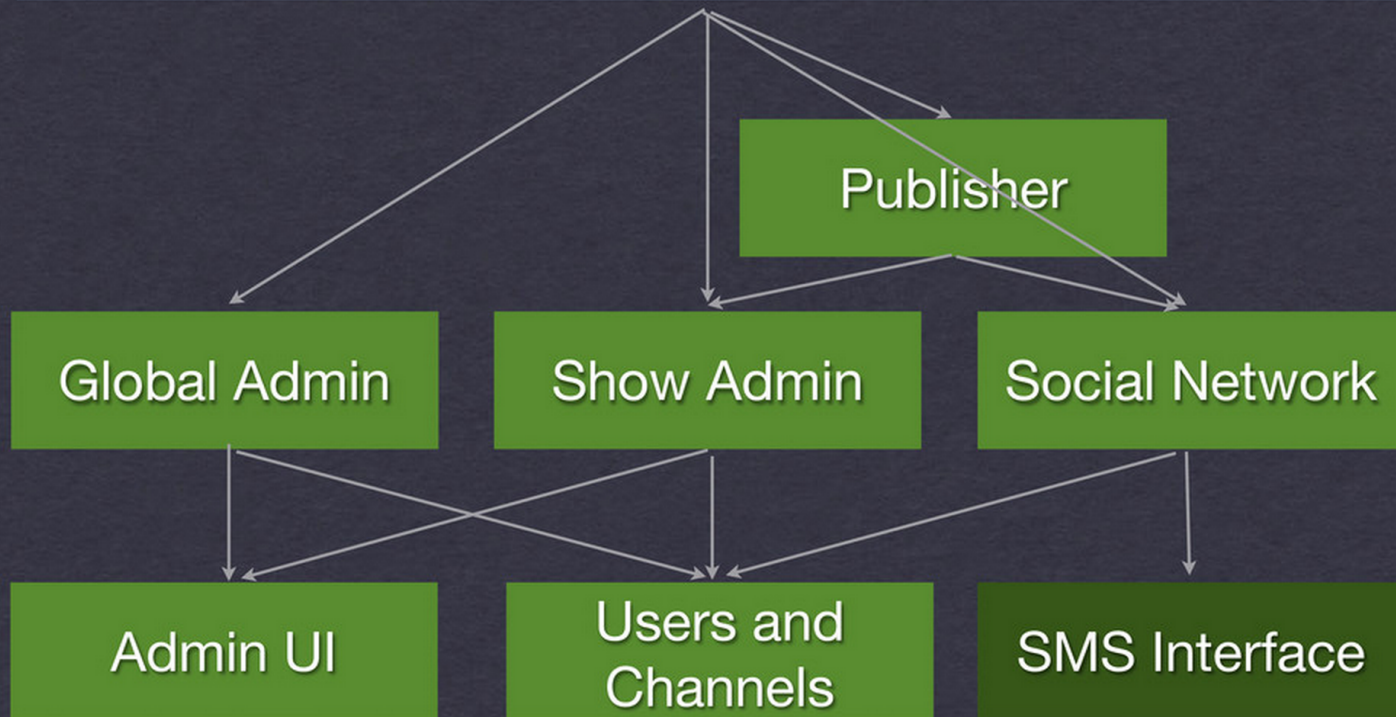


Active Record Model Dependencies

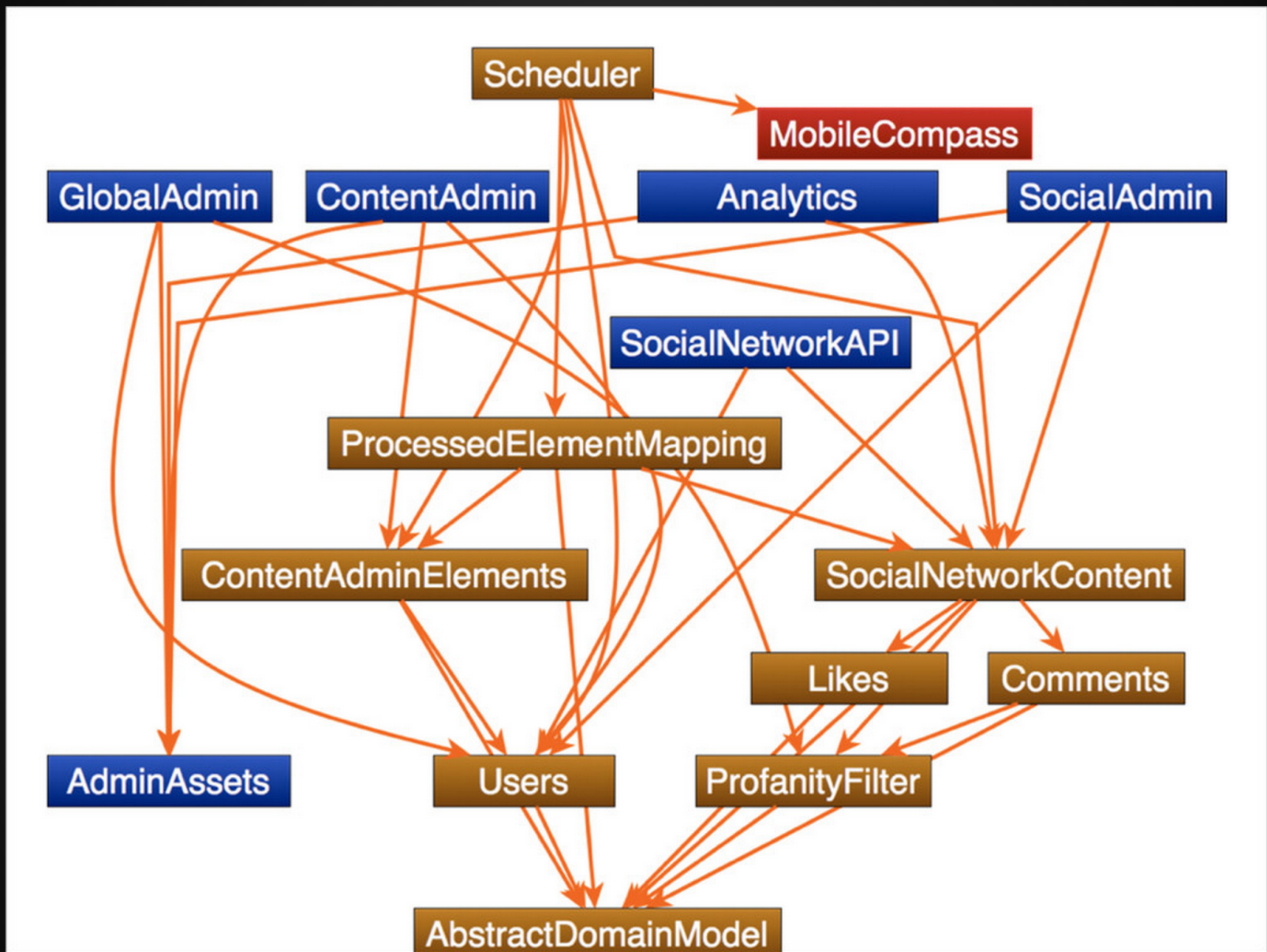
Stephan Hagemann

Lots of Architecture

Rails TV Shows with Social Network



Current Pivotal Project



Little bit of Architecture

Agile Web Development with Rails 4



Sam Ruby
Dave Thomas
David Heinemeier Hansson

Edited by Susannah Davidson Pfalzer



declarations to our model files that specify their interrelationships. Open the newly created `order.rb` file in `app/models`, and add a call to `has_many`:

```
class Order < ActiveRecord::Base
  has_many :line_items
end
```

That `has_many` directive is fairly self-explanatory: an order (potentially) has many associated line items. These are linked to the order because each line item contains a reference to its order's id.

Now, for completeness, we should add a `has_many` directive to our product model. After all, if we have lots of orders, each product might have many line items referencing it.

```
class Product < ActiveRecord::Base
  has_many :line_items
  # ...
```

Next, we'll specify links in the opposite direction, from the line item to the orders and products tables. To do this, we use the `belongs_to` declaration twice in the `line_item.rb` file:

[Download](#) `depot_p/app/models/line_item.rb`

```
class LineItem < ActiveRecord::Base
  belongs_to :order
  belongs_to :product
end
```

`belongs_to` tells Rails that rows in the `line_items` table are children of rows in the orders and products tables. No line item can exist unless the corresponding order and product rows exist. There's an easy way to remember where to put `belongs_to` declarations: if a table has foreign keys, the corresponding model should have a `belongs_to` for each.

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What does that lead to?



Unclear
responsibilities

MRP not SRP

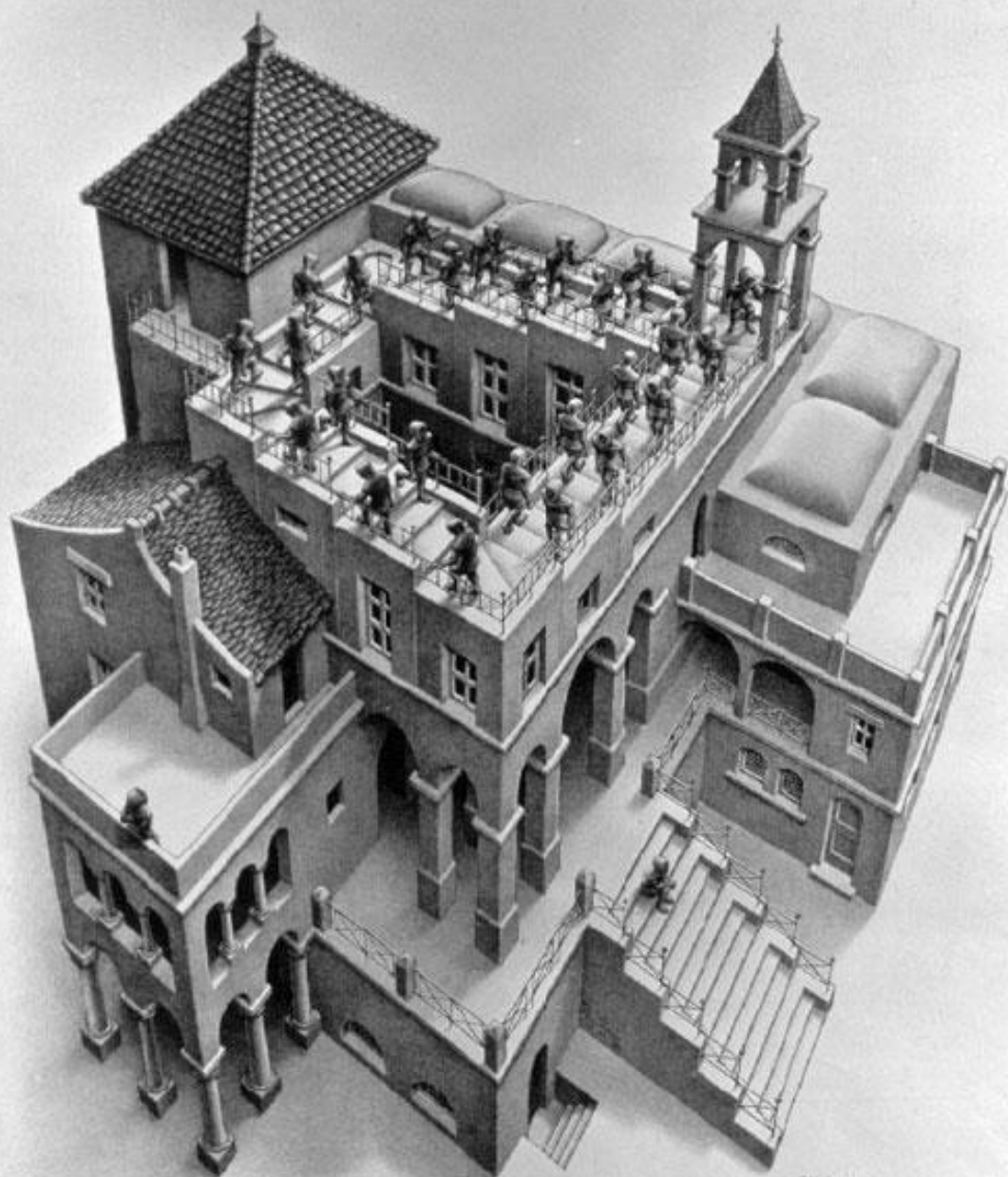
Complex object
creation

Slow test suites

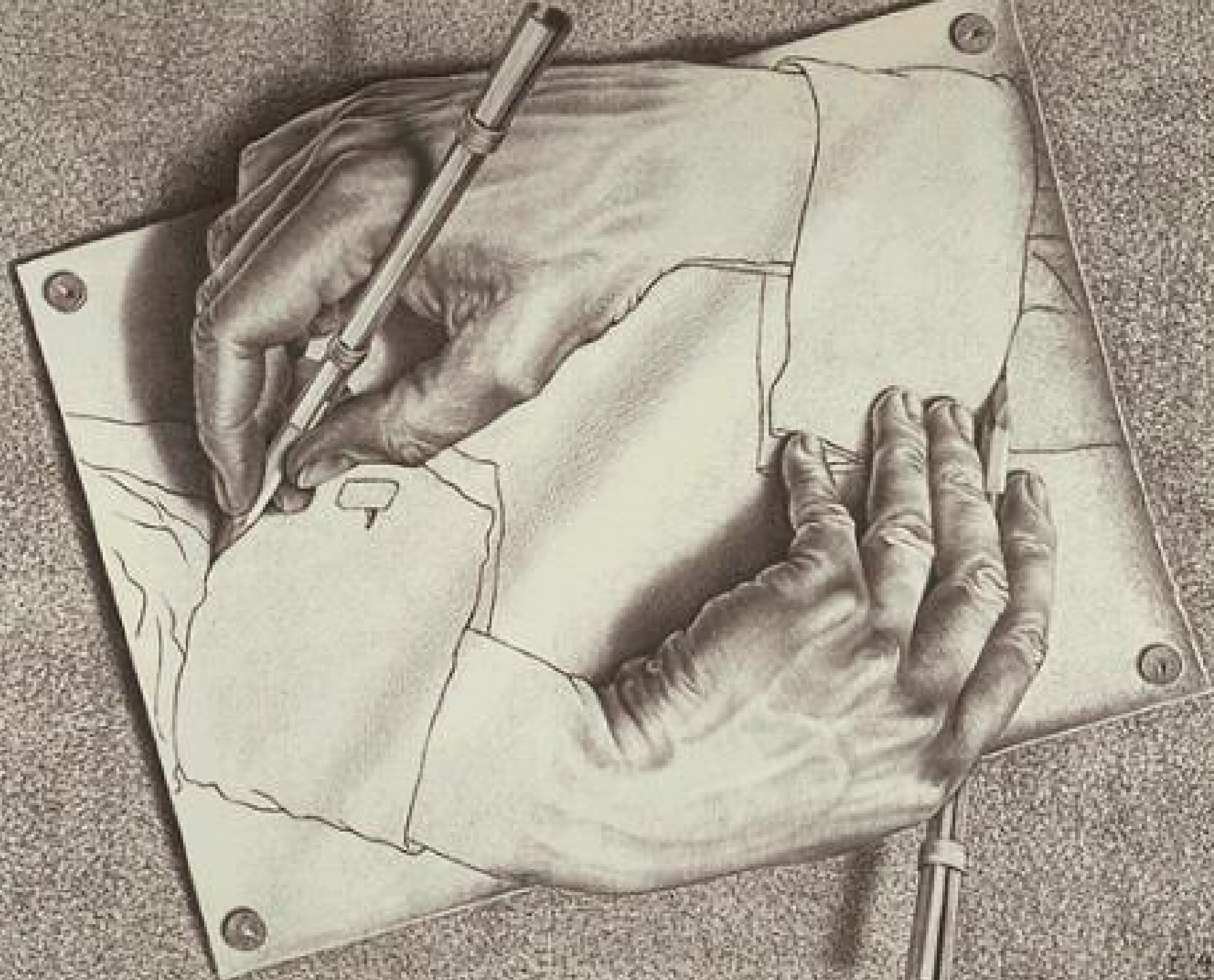
Bugs

Bad Software

Why?



18/1/22



What if?

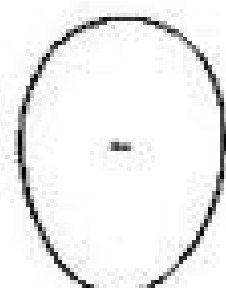
WARNING
RESTRICTED AREA

It is unlawful to enter this area without permission of the Installation Commander. (Sec 21, Internal Security Act of 1950, 50 USC 797) while on this installation, all personnel and the property under their control are subject to search.

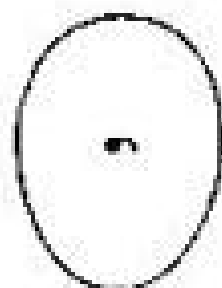
**Use of Deadly Force
Authorized**



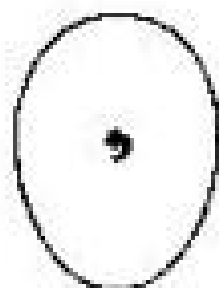




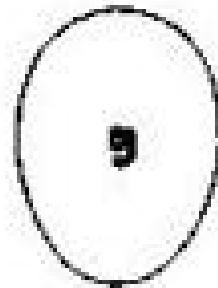
1 day
(0.0002 grams)



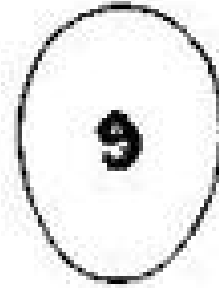
2 days
(0.003 grams)



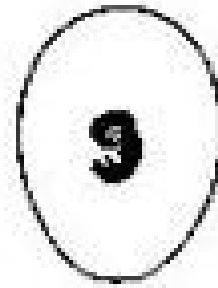
3 days
(0.02 grams)



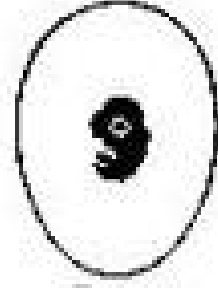
4 days
(0.05 grams)



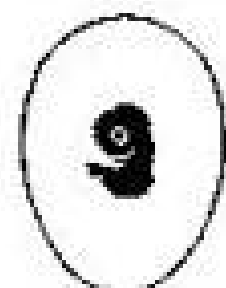
5 days
(0.13 grams)



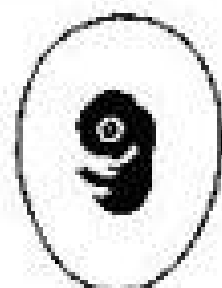
6 days
(0.29 grams)



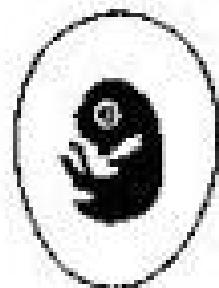
7 days
(0.57 grams)



8 days
(1.15 grams)



9 days
(1.53 grams)



10 days
(2.26 grams)



11 days
(3.68 grams)



12 days
(5.07 grams)



13 days
(7.37 grams)



14 days
(9.74 grams)



15 days
(12.00 grams)



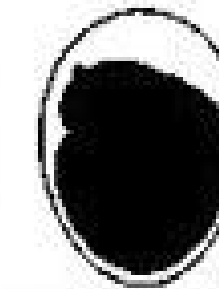
16 days
(15.98 grams)



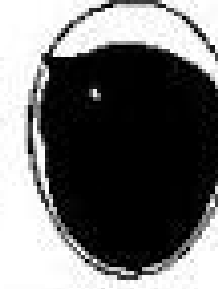
17 days
(18.59 grams)



18 days
(21.83 grams)



19 days
(25.62 grams)



20 days
(30.21 grams)

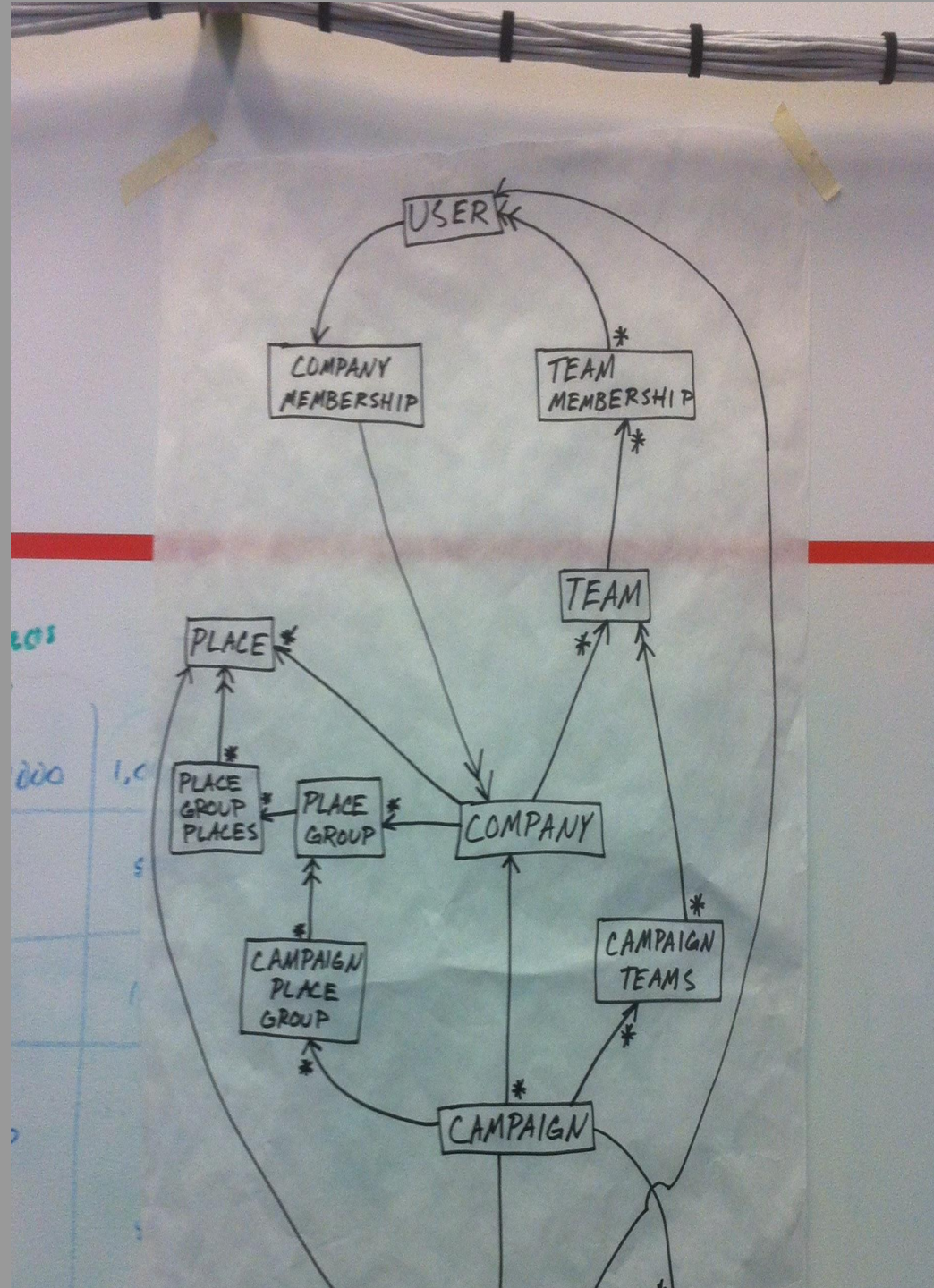


21 days
(hatched)

DAILY CHANGES IN THE WEIGHT AND FORM
OF THE DEVELOPING CHICK EMBRYO (WHITE LEGHORN)

Boulder

How?



Boulder

Thanks!