



Kellogg
School of Management

Welcome to KIEI-925

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Course Website: golearntocode.com/kiei925-winter15
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Fridays 12-1 in the Atrium

Grading

- Homework = 60% (6 @ 10% each)
- Midterm Exam (Week 6) = 15%
- Final Project = 25%

Final Project

- MVP
- Your own idea – teams strongly encouraged!
- Idea templates

MVP

Minimum Viable Product

Traditional Product Management

- Assume you know it all
- Or make some stuff up
- Work really hard
- Spend all the money

Lean Product Management

- Minimum feature set
- Measure & Learn
- Pivot or persevere



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Check the status of your orders or change the email address and password you have on file with us. Please note that you **do not** need an account to use the store. The first time you place an order, you will be given the opportunity to create an account.

User Stories

As a _____, I want to _____,

so that _____.



What is this? A center for ANTS!?



HAWAII DRIVER
LICENCE

NUMBER 01-47-87441

DOB 06/03/1981 EXP 06/03/2008

HT	WT	HAIR	EYES	SEX	CTY
5-10	150	BRO	BRO	M	0

ISSUE DATE CLASS RESTR ENDORSE
06/18/1998 3

McLovin

McLOVIN
892 MOMONA ST
HONOLULU, HI 96820



License

id

name

address

dob

expires

height

weight

more...

User Stories

- As a user, I want to see the details (title, summary, year released, etc) of a movie
- As a user, I want to see the cast of the movie
- As a user, I want to read and write reviews of movies

THE FILES

ARE IN THE COMPUTER?!



Ruby

A Programmer's Best Friend



Class

Methods

Data

String

upcase, downcase, length, ...

"Hello"

Determine the *length* of the string
“Northwestern”

Is 420 is an *even* number?

Reverse the letters in the word “stressed”

Support the URL <http://localhost:3000/dice/roll>

Roll the dice

/weather

The current temperature in Chicago is _____.
Current conditions are _____ with winds of
_____ mph.

Do, or do not. There is no _____.



Do, or do not. There is no _____.



WRONG

CRUD

Create

```
movie = Movie.new  
movie.name = "Apollo 13"  
movie.year_released = "1995"  
movie.summary = "Spoiler alert: we land on the moon"  
movie.save
```

Read

```
movies = Movie.all
```

```
movie = Movie.find_by(id: 1)
```

```
movie = Movie.find(1)
```

Update

```
movie = Movie.find_by(id: 1)
```

```
movie.name = "Star Wars VI: A New Hope"
```

```
movie.save
```

```
movie = Movie.find_by(id: 1)
```

```
movie.update(name: "Star Wars VI: A New Hope")
```

Delete

```
movie = Movie.find_by(id: 1)  
movie.delete
```

URL

<http://google.com/>

Querystring Parameters

<http://maps.google.com/?q=Paris>

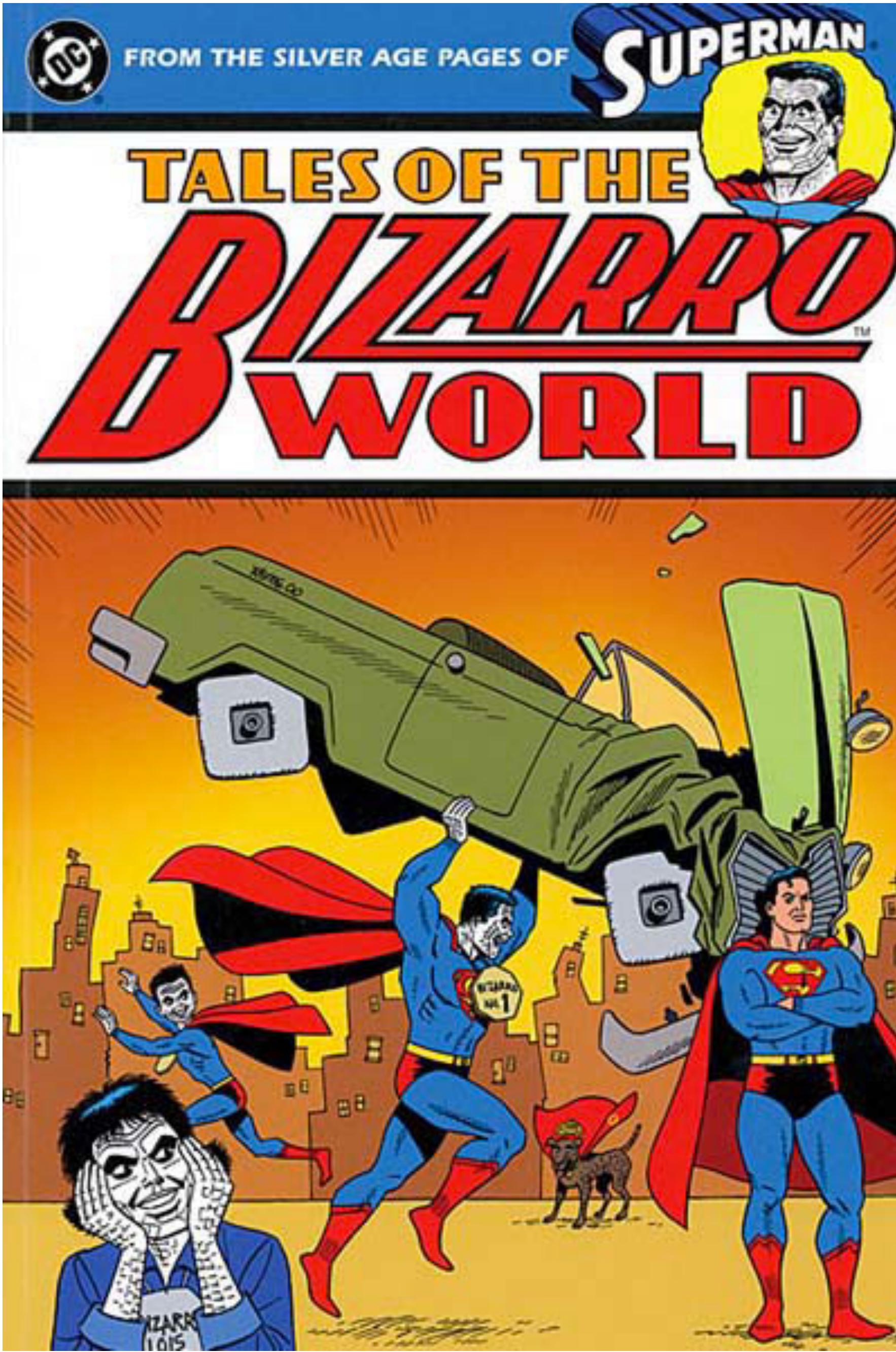
HTTP Method

GET

POST

PATCH

DELETE



CRUD

(Database)

RESIL

(Web App)

CRUD

Read

Create

Update

Delete

REST

GET

POST

PATCH

DELETE

Tasks

GET

Feed the
dog!

Don't forget
to buy milk!

Take out
the trash!

POST

Feed the
dog!

Don't forget
to buy milk!

Take out
the trash!

Paint the
garage!

Paint the
garage!

Feed the
dog
cat!

Don't forget
to buy milk!

Take out
the trash!

PATCH

Feed the
dog
cat!

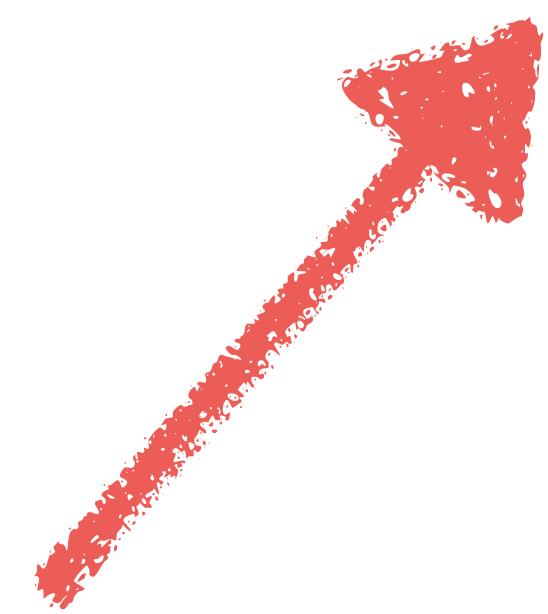
Paint the
garage!

Don't forget
to buy milk!

Take out
the trash!

DELETE

URL



Tasks

Resources = nouns

Methods = verbs

Resources (nouns)

Movies

Actors

Users

Reviews



Plural!

Movies

Actors

Users

Reviews

Directors

Producers

Theaters

Showings

Methods (verbs)

GET

POST

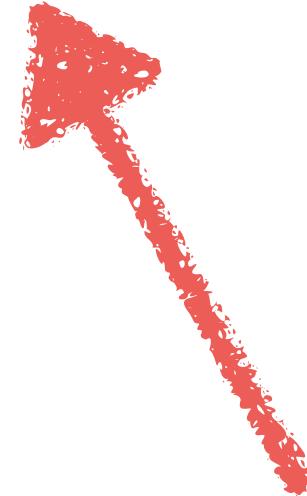
PATCH

DELETE

CRUD

REST

RCAV



Action

Movie Resource

Action	What It Does
index	Display a list of movies
show	Show one movie
new	Form for creating a new movie
create	Create the new movie
edit	Form for editing a movie
update	Update the movie
destroy	Delete the movie

Movie Resource

Action	What It Does	URL	Method
index	Display a list of movies	/movies	GET
show	Show one movie	/movies/1	GET
new	Form for creating a new movie	/movies/new	GET
create	Create the new movie	/movies	POST
edit	Form for editing a movie	/movies/1/edit	GET
update	Update the movie	/movies/1	PATCH
destroy	Delete the movie	/movies/1	DELETE



The Dance

- `git clone`
- `bundle install`
- `rake db:migrate`
- `rake db:seed`

Buyflix Stories - Week 5

- As a user, I want to browse a list of movies to choose from
- As a user, I want to view the details of a single movie, so that I can see the summary, rating, and cast
- As an admin, I want to create a new movie
- As an admin, I want to edit the details of an existing movie
- As an admin, I want to delete an existing movie

Model Associations

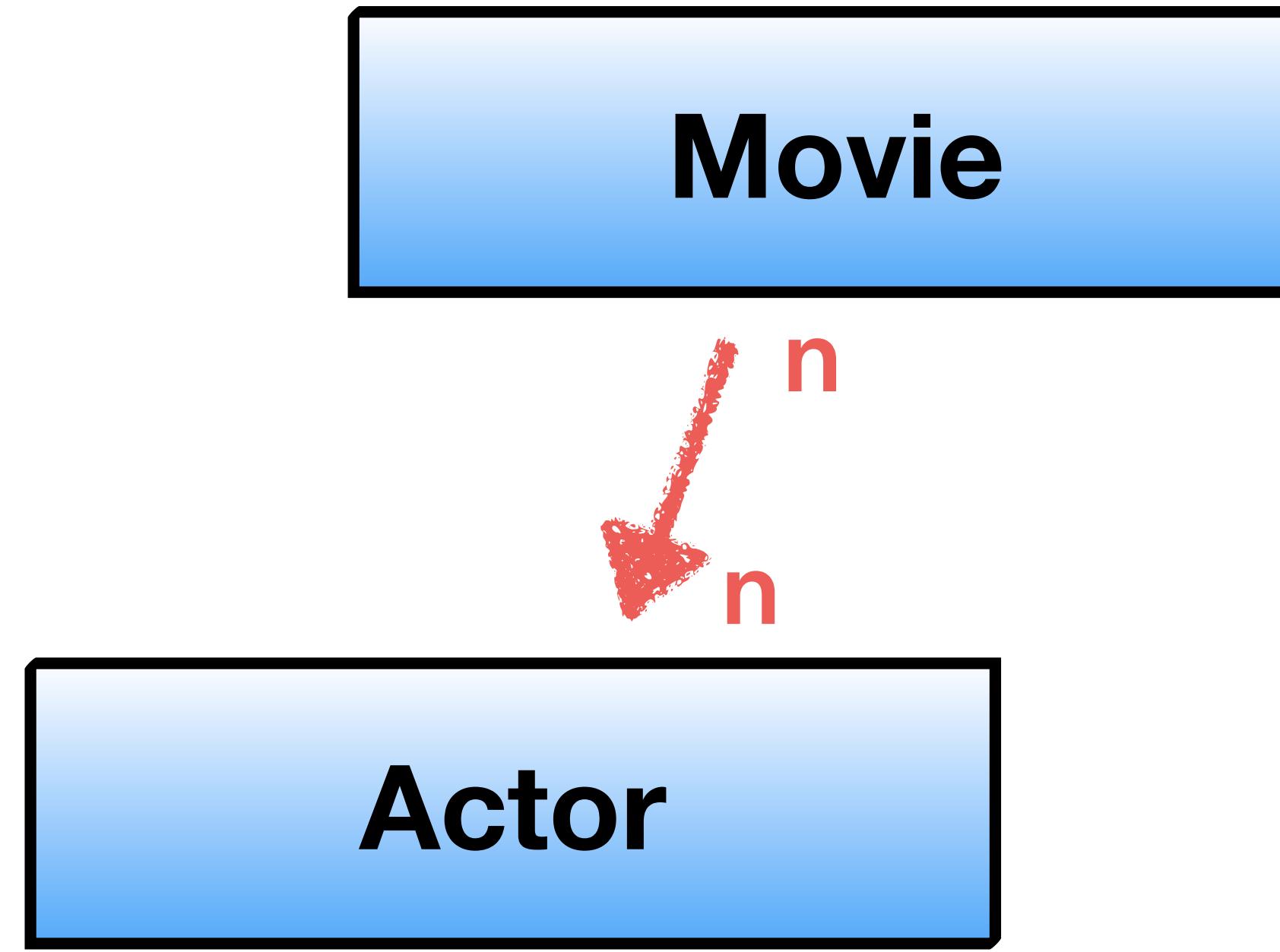


id	name
1	Paramount
2	Lucasfilm
3	Universal

id	studio_id	title
88	1	Raiders of the Lost Ark
89	3	Apollo 13
90	2	Jurassic Park
91	2	Star Wars

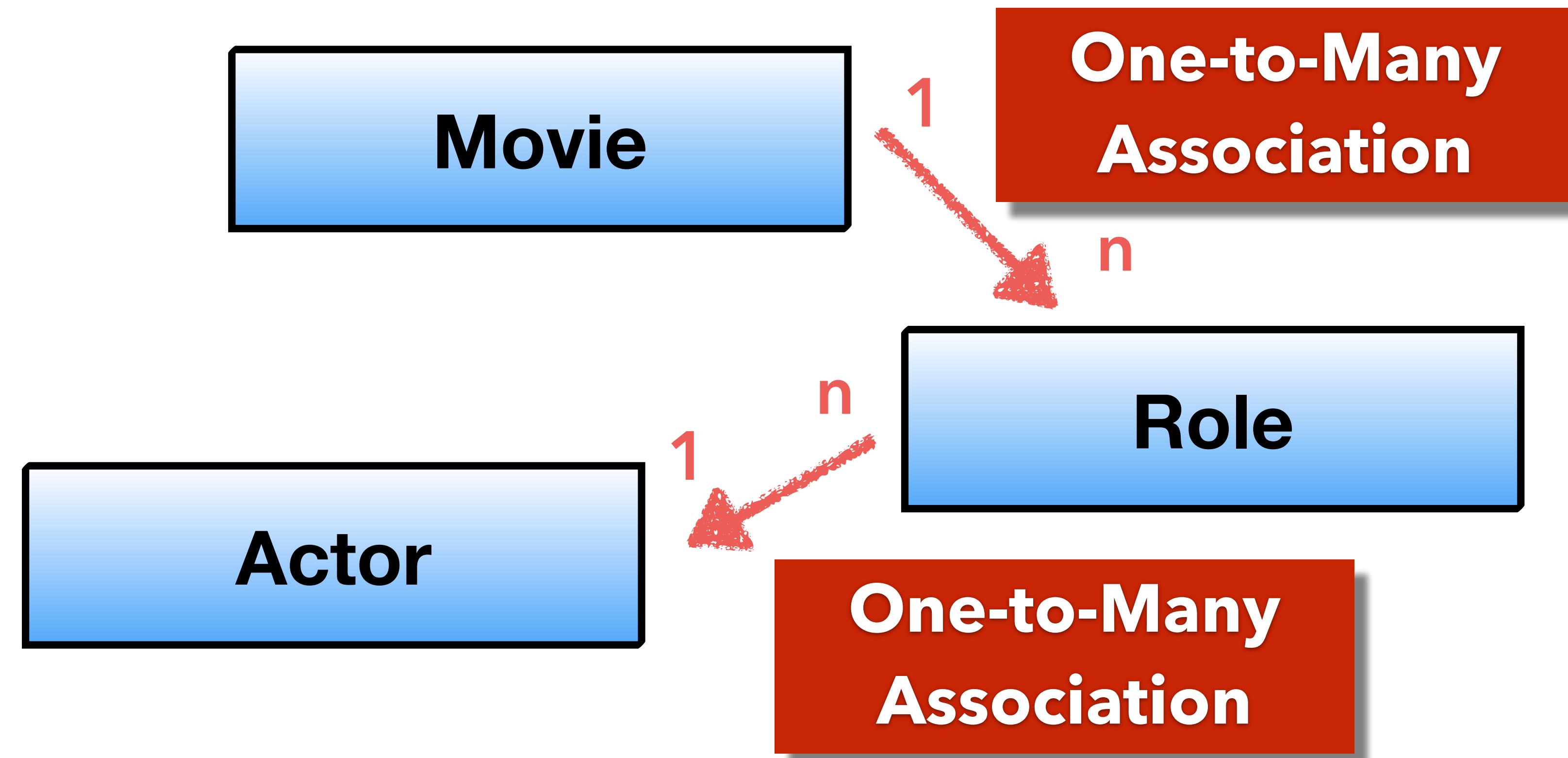
Movie

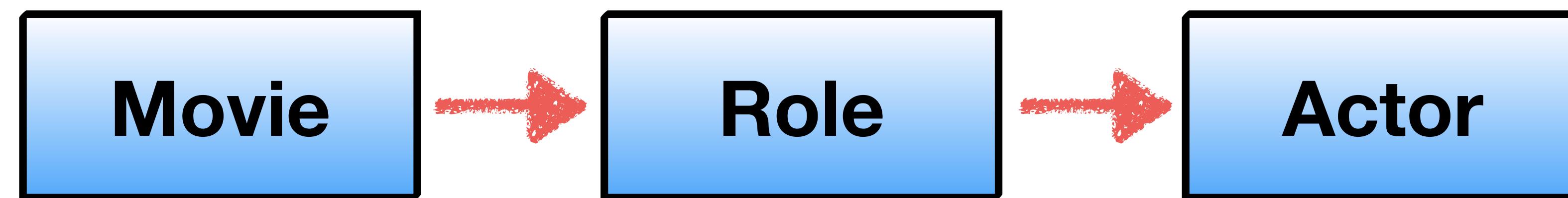
Actor



Many-to-Many Association

The connection becomes another model.





id	title
88	Raiders of the Lost Ark
89	Apollo 13
90	Jurassic Park
91	Star Wars

id	movie_id	actor_id
14	88	51
15	91	54
16	91	51
17	91	53

id	name
51	Harrison Ford
52	Tom Hanks
53	Carrie Fisher
54	Mark Hamill

Studio

has_many



Movie

Studio

belongs_to



Movie