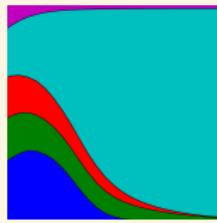


Using Python to train my dog.

@drvinceknight
vknight.org
knightva@cardiff.ac.uk



Software
Sustainability
Institute

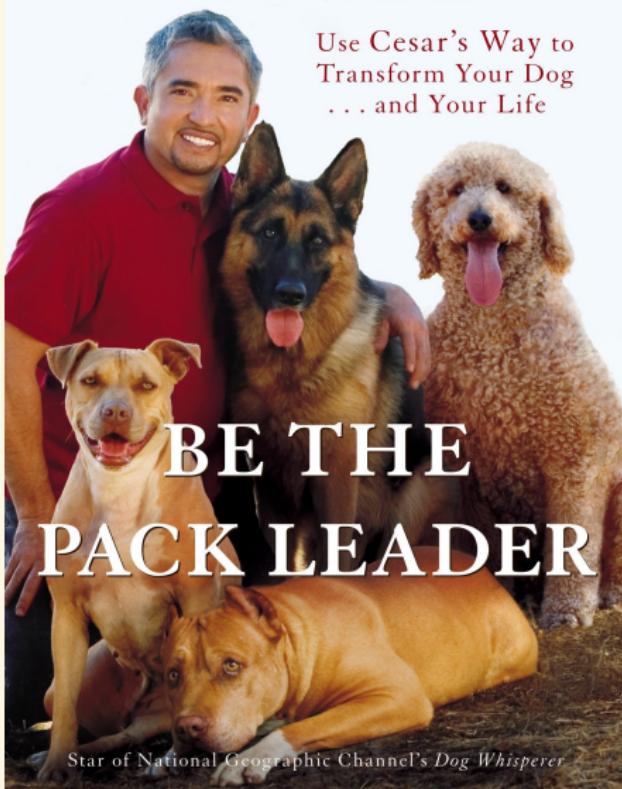


#1 NEW YORK TIMES BESTSELLING AUTHOR OF CESAR'S WAY

CESAR MILLAN

with MELISSA JO PELTIER

Use Cesar's Way to
Transform Your Dog
... and Your Life



BE THE PACK LEADER

Star of National Geographic Channel's *Dog Whisperer*

Expression Studies on Wolves - Rudolph Schenkel, 1947

THE WOLF



L. David Mech

Foreword by Ian McTaggart Cowan

Photographs by L. David Mech,

Patricia Caulfield and others

Survey of the use and outcome of confrontational
and non-confrontational training methods in
client-owned dogs showing undesired behaviors -
Herron et al. 2009

Alpha Status, Dominance, and Division of Labor in Wolf Pack - David Mech 2013



Behaviouralism → Social constructivism

<https://vknight.org/tch-phi/>

1. Health

2. Companionship

3. Diet

4. Environment

5. Behaviour





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It's easy!



toss_and_fetch/

Freestyle

behaviours/

sequences /

Pup coach.

models.py

```
class Behaviour(models.Model):
    """A model for a behaviour"""
    created = models.DateTimeField(auto_now_add=True)
    title = models.CharField(
        max_length=100,
        blank=True,
        default=''
    )
    acquired = models.DateTimeField(auto_now_add=True)
    description = models.TextField(default='')

    class Meta:
        ordering = ('acquired',)

    def __str__(self):
        return self.title
```

urls.py

```
urlpatterns = [
    path('behaviours/', views.behaviour_list),
    path('behaviours/<int:pk>', views.behaviour_detail),
    path(
        'behaviours/sequence/<int:length>',
        views.sequence_detail
    ),
    path(
        'behaviours/sequence/<int:length>/<int:seed>',
        views.sequence_detail
    ),
]
urlpatterns = format_suffix_patterns(urlpatterns)
```

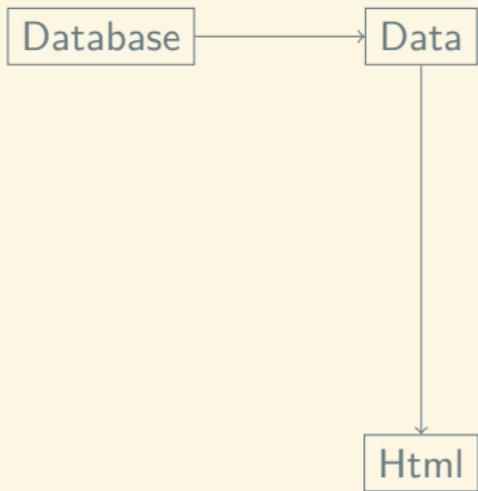
views.py

```
@api_view(['GET', 'POST'])
def sequence_detail(request, length, seed=None, format=None):
    """
    Retrieve, update or delete a behaviour
    """
    if request.method == 'GET':
        if seed is not None:
            random.seed(seed)
        behaviours = random.sample(
            list(Behaviour.objects.all()),
            length
        )

    serializer = BehaviourSerializer(behaviours, many=True)
    return Response(serializer.data)
```

routines/

Why DRF?



Reinforcement learning

Dog's health



www.frisbeeschool.co.uk



- ▶ @drvinceknight
- ▶ IG: @vincent.prytherch
- ▶ Code: github.com/drvinceknight/pupcoach
- ▶ Based on “How to Build a Disc Dog Freestyle Routine Step” - Pawsitive vybe

