# dict obj Serialize: s = Serializer(inst) # Object instance -> Data dict s = Serializer(instance) s.data s.data Deserialize (create): # dict -> Object s = Serializer(data={..}) s = Serializer(data) s.is valid() instance = s.save() s.is\_valid() Validation: s.save() s = Serializer(data={..}) if s.is valid(raise exception=False): s.validated data s.errors # dict(field=[problems..]) Update: s = Serializer(instance, validated\_data) new = s.save()Serializer Classes: class SimpleSerializer(serializers.Serializer): name = serializers.CharField(max length=128) user = UserSerializer(required=false) # nested def create(self, validated\_data): kwargs = self.context['view'].kwargs return instance def update(self, instance, validated data): def save(self, \*\*kwargs): # ? instance = super().save(\*\*kwargs) nm = self.validated data.get('name') instance = model object.save() return instance def validate <field>(self, name): def validate\_name(self, name): if not name raise serializers.ValidationError('Name required') return name def validate(self, data): nm = data.get('name') if not nm: raise serializers.ValidationError({'name': ..}) return validated\_data class DbSerializer(serializers.ModelSerializer): class Meta: model = DbModel fields = [..]list\_serializer\_class = DbListSerializer def to\_representation(self, obj) → Dict def to internal(self, data) → Dict # validated Create Serializer(data={..}) → s.save(): Object

Serializer(instance) → s.data: Dict Serializer(instance, data={..})

Serializer(instance, data={..}, partial=True)

# Django DRF Cheat Sheet

## Serializer Fields:

Common: CharField, UUIDField, NullBooleanField, DateTimefield,
 JSONField, EmailField, ..

Special: SerializerMethodField, PrimaryKeyRelatedField, SlugRelatedField, ..

### Field Aras

dict

lobi

	Default	Input	Output	Notes
read_only	False	no	yes	
write_only	False	yes	no	
required	True	yes	yes	raise if missing
allow_null	False			None is allowed
default	<value></value>	sets		If set, don't set required
source	the python form of field access like "user.address.zip" (not double underscore) OR a callable name on the object like get_primary_phone()			

### Request

```
    request.query_param (get)
    request.user (django.contrib.auth.models.AnonymousUser)
    request.auth (usually a model instance)
    HTTP stuff: request.method (e.g. GET), .content_type (e.g. application/json), .META, .headers, .path
```

# view() functions

- request.data - dict of (post, put, patch)

### Testing

### --TO BE WRITTEN -

from rest\_framework.test import APIClient, APITestCase,
APIRequestFactory

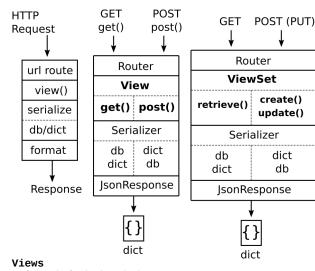
assert response.ok

request = self.factory.post(data={..}, headers={..})
context = {..}
result = view(request, context, ...)

Advanced: Nested Serializersfrom

from rest framework extensions.mixins import NestedViewSetMixin

class MyViewSet(NestedViewSetMixin, ModelViewSet):



# class SimpleView(APIView): def post(self, request, \*args, \*\*kws): request.data.get('name') return Response(..) def get(self, request, \*args, \*\*kws): request.query\_params.get('name')

def patch(self, request, \*args, \*\*kws):
 ...
def delete(self, request, \*args, \*\*kws):

def custom(request, \*args, \*\*kwargs):

### ViewSets (ModelViewSets)

from rest framework import permissions

```
class SimpleViewSet(ViewSet): # ModelViewSet
 serializer class = SimpleSerializer
 lookup field = 'field'
 authentication_classes = (..,)
 permissions classes = (permissions.IsAuthenticated,)
 # permissions_classes = (permissions.AllowAny,)
 # filter backends = (...,)
 def create(self, request, *args, **kws):
   return Response(..)
 def update(self, request, *args, **kws):
 def partial_update(self, request, *args, **kws):
 def destroy(self, request, *args, **kws):
 def retrieve(self, request, *args, **kws):
 def list(self, request, *args, **kws):
 def get_queryset(self):
 def get object(self):
 def get serializer(self):
 def get serializer context(self): → dict(request=, view=
 @detail_router(['GET', 'POST'])
```



Serialize

Set Update

Serializer