

Talented developers apply at www.mercurytide.co.uk/careers

Template tags

Built in	comments <i>library</i>
<code>{% autoescape on off %} — {% endautoescape %}</code> <code>{% block name %} — {% endblock %}</code> <code>{% comment %} — {% endcomment %}</code> <code>{% csrf_token %}</code> <code>{% cycle "even" "odd" [as name [silent]] %}</code> <code>{% cycle name %}</code> <code>{% debug %}</code> <code>{% extends template %}</code> <code>{% filter filter1 filter2 %}</code> <code>{% firstof var1 var2 ... default %}</code> Does not auto-escape <code>{% for var[...] in list %} — {% empty %} — {% endfor %}</code> forloop.counter forloop.counter0 forloop.revcounter forloop.revcounter0 forloop.first forloop.parentloop forloop.last <code>{% if expression %} — {% elif expression %} —</code> <code>[{% else %} — {% endif %}</code> Comparisons: == != < <= > >= in not in Boolean: and or not <code>{% ifchanged [var1] [var2 ...] %} — {% endifchanged %}</code> <code>{% include template [with name=value ... [only]] %}</code> <code>{% load library ... %}</code> <code>{% load tag ... from library %}</code> <code>{% now [timeformat] %}</code> <code>{% regroup list by attr as name %}</code> <code>{% spaceless %} — {% endspaceless %}</code> <code>{% ssi path [parsed] %}</code> <code>{% templatetag openblock %}</code> open close...block variable brace comment <code>{% url "[app:]viewname" [arg ...] [kwargs=value ...] [as name] %}</code> <code>{% verbatim [name] %} — {% endverbatim [name] %}</code> <code>{% widthratio value maxvalue maxwidth %}</code> = value / maxvalue * maxwidth <code>{% with name=value[...] %} — {% endwith %}</code>	<code>{% comment_form_target %}</code> <code>{% get_comment_count for var as name %}</code> <code>{% get_comment_form for var as name %}</code> <code>{% get_comment_list for var as name %}</code> <code>{% get_comment_permalink comment [format_string] %}</code> <code>{% render_comment_form for var %}</code> <code>{% render_comment_list for var %}</code>
flatpages <i>library</i>	<code>{% get_flatpages [url_prefix] as name %}</code>
i18n <i>library</i>	<code>{% blocktrans [context context_name]</code> <code>[with name=value ...] %} — {% endblocktrans %}</code> <code>{% blocktrans count name=value [context with etc.] %} —</code> <code>{% plural %} — {% endblocktrans %}</code> <code>{% get_available_languages as LANGUAGES %}</code> <code>{% get_current_language as LANGUAGE_CODE %}</code> <code>{% get_current_language_bidi as LANGUAGE_BIDI %}</code> <code>{% get_language_info for "en" as lang %}</code> lang.code lang.name lang.name_local lang.bidi <code>{% get_language_info for list_of_codes as lang %}</code> <code>{% trans string [context context_name] [as name] [noop] %}</code>
I10n <i>library</i>	<code>{% localize on off %} — {% endlocalize %}</code>
static <i>library</i>	<code>{% get_media_prefix [as name] %}</code> <code>{% get_static_prefix [as name] %}</code> <code>{% static path [as name] %}</code>
staticfiles <i>library</i>	<code>{% static path [as name] %}</code>
tz <i>library</i>	<code>{% get_current_timezone [as TIME_ZONE] %}</code> <code>{% localtime on off %} — {% endlocaltime %}</code> <code>{% timezone time_zone_name %} — {% endtimezone %}</code>
webdesign <i>library</i>	<code>{% lorem [number] [w p b] [random] %}</code>

Filters

Text formatting	Dates & times	Escaping	humanize <i>library</i>
lower upper title capfirst slugify ljust: width rjust: width center: width wordwrap: width wordcount striptags removetags: "p br" Case sensitive. cut: substring linebreaks linebreaksbr linenumbers phone2numeric truncatechars: count truncatewords: count truncatewords_html: count urlize urlizetrunc: length	date: format time: format timesince[: datetime] timeuntil[: datetime] Lists length length_is: length first last random join: string slice: "1:9" make_list unordered_list Numbers add: number divisibleby: number filesizeformat floatformat[: decimal_places] get_digit: position position 1 = 1's, 2 = 10's pluralize[: "y,ies"]	safe safeseq escape force_escape escapejs addslashes fix_ampersands iriencode urlencode[: safe_chars] General default: value default_if_none: value dictsort: key dictsortreversed: key pprint stringformat: format yesno[: "yes,no[.none]"]	apnumber intcomma intword naturalday[: format] naturaltime ordinal i18n <i>library</i> language_name language_name_local bidi I10n <i>library</i> localize unlocalize tz <i>library</i> localtime timezone: tz_name utc

Template date formats

Year	AM & PM	Localized
y 13 Y 2013	a a.m. or p.m. A AM or PM	DATETIME_FORMAT Long date & time SHORT_DATETIME_FORMAT Short date & time DATE_FORMAT Long date SHORT_DATE_FORMAT Short date TIME_FORMAT Time
Month	Hour	Timezone
F January E (localised full date form) M Jan b jan N Jan. (A.P) n 1 to 12 m 01 to 12	H 00 to 23 G 0 to 23 h 01 to 12 g 1 to 12 Minutes i 00 to 59 Seconds s 00 to 59 µs u 000000 to 999999 Time f 1, 1:30 1 a.m. P 1 a.m. 1:30 p.m., midnight , noon	T TZ code: EST, CET e TZ name: GMT, -500, US/Eastern O TZ offset: +0200 Z TZ offset (sec): -43200 to 43200
Day	Day of week	Misc
d 01 to 31 j 1 to 31 S suffix: st, nd, rd or th	l Friday D Fri w 0 (Sun) to 6 (Sat)	I DST in effect: 1 or 0 L Is leap year: True or False z Day of year: 0 to 365 t Days in month: 28 to 31 W Week number: 1 to 53 o Week-numbering year: 2013
Standards		c ISO 8601: 2013-03-28T09:47:23.538501+02:00 r RFC 2822: Thu, 21 Dec 2000 16:01:07 +0200 U Unix time: 1364471243

DJANGO CHEAT SHEET

Version 1.5

Form fields

Common kwargs

required=True
label=string
help_text=string
initial=value_or_function
validators=list_of_validators
widget=Widget_class
error_messages=dict
localize=False
(e.g. localize dates, decimals)

Boolean

BooleanField
NullBooleanField

Strings

CharField [min_length=number]
[max_length=number]
SlugField [min_length=number]
[max_length=number]
RegexField regex=regex
[min_length=number]
[max_length=number]

Choices

ChoiceField choices=iterable
TypedChoiceField choices=iterable
[coerce=function]
[empty_value=""]
MultipleChoiceField choices=iterable
TypedMultipleChoiceField choices=iterable
[coerce=function]
[empty_value=""]
ModelChoiceField queryset=queryset
[empty_label="-----"]
[cache_choices=False]
ModelMultipleChoiceField queryset=queryset
[cache_choices=False]

error_messages keys

required	invalid (int, email, etc.)	max_value	missing (file)	invalid_list
min_length	invalid_date	max_digits	empty (file)	
max_length	invalid_time	max_decimal_places	invalid_image	
invalid_choice	min_value	max_whole_digits	invalid_pk_value	

Dates & Times

DateField [input_formats=iterable]
TimeField [input_formats=iterable]
DateTimeField [input_formats=iterable]
SplitDateTimeField [input_date_formats=iterable]
[input_time_formats=iterable]

Numbers

IntegerField [max_value=int]
[min_value=int]
FloatField [max_value=float]
[min_value=float]
DecimalField [max_digits=number]
[decimal_places=number]
[max_value=decimal]
[min_value=decimal]

Files

FileField [max_length=number] (of filename)
[allow_empty_file=False]
ImageField [max_length=number] (of filename)
[allow_empty_file=False]
FilePathField [path=directory_path]
[recursive=False]
[match=regex]
[allow_files=True]
[allow_folders=False]

Internet

EmailField [min_length=number]
[max_length=number]
URLField [min_length=number]
[max_length=number]

IPAddressField (IPv4)
GenericIPAddressField [protocol="both" | "IPv4" | "IPv6"]
(IPv4/IPv6)
[unpack_ipv4=False]

Misc

ComboField [fields=tuple]
MultiValueField [fields=tuple]

Form & widget Media

class Media:
css = {"all" | screen | print": (filenames), ... }
js = (filenames)
[extend = True]

Validators

MaxLengthValidator(length)
MinLengthValidator(length)
validate_email
validate_slug
validate_url
RegexValidator([regex=" "],
[message="Enter a valid value"],
[code="invalid"])
MaxValueValidator(value)
MinValueValidator(value)
validate_ipv4_address
validate_ipv6_address
validate_ipv46_address
validate_comma_separated_integer_list

Widgets

General

TextInput
PasswordInput [format=date_format]
HiddenInput
TextArea

Dates & times

DateInput [format=date_format]
DateTimeInput [format=datetime_format]
TimeInput [format=time_format]
SplitDateTimeWidget [date_format=date_format]
[time_format=time_format]
SplitHiddenDateTimeWidget
SelectDateWidget [years=iterable]

ModelForms & ModelFormSets

ModelForm Meta attributes

abstract=False
app_label=string
db_table=string
model=model
fields=tuple
exclude=tuple
widgets=dict
{ "field": TextInput() }

Formsets

FormSetClass = **formset_factory**(form,
[extra=1.] [max_num=None],
[can_order=False], [can_delete=False],
[formset=BaseFormSet])

FormSetClass(data, [files.] [initial=list.]
[prefix=string])

Formset attributes

formset.empty_form
formset.management_form
formset.ordered_forms

Form attributes

form.ORDER
form.DELETE

Choices

Select [choices=iterable]
NullBooleanSelect [choices=((1, "Unknown"),
(2, "Yes"), (3, "No"))]
RadioSelect [choices=iterable]
SelectMultiple [choices=iterable]
CheckboxSelectMultiple [choices=iterable]
MultipleHiddenInput [choices=iterable]

Files

FileInput
ClearableFileInput

Common kwargs

attrs=dict eg. {"class": "foo", "rows": "5"}

Factories

modelform_factory(model, [form=FormClass.]
[fields=tuple.] [exclude=tuple.] [widgets=dict])
modelformset_factory(model, queryset=queryset]
[formset=BaseModelFormSet.] ...)
inlineformset_factory(parent_model, child_model,
[fk_name=field.] [can_delete=True.]
[formset=BaseInlineFormSet.] ...)

DJANGO CHEAT SHEET

Version 1.5

Model fields showing defaults

Common kwargs

null =False	help_text =string
blank =False	primary_key =False
choices =iterable	unique =False
db_column =name	unique_for_date =date_field_name
db_index =False	unique_for_month =date_field_name
default =value_or_function	unique_for_year =date_field_name
editable =True	verbose_name =string
error_messages =dict	validators =iterable

Numbers

AutoField	primary_key =True (mandatory)
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Booleans

BooleanField
NullBooleanField

Numbers

IntegerField (>= 32 bit)
PositiveIntegerField (>= 32 bit)
SmallIntegerField (DB specific size)
PositiveSmallIntegerField (DB specific size)
BigIntegerField (64 bit)
DecimalField

max_digits=number
decimal_places=number

FloatField

Strings

CharField	max_length =number
TextField	
SlugField	[max_length =50]
CommaSeparatedIntegerField	max_length =number

Strings

CharField	max_length =number
TextField	
SlugField	[max_length =50]
CommaSeparatedIntegerField	max_length =number

Dates & times

DateField	[auto_now =False] [auto_now_add =False]
DateTimeField	[auto_now =False] [auto_now_add =False]
TimeField	[auto_now =False] [auto_now_add =False]

Internet

EmailField	[max_length =75]
URLField	[max_length =200]
IPAddressField (IPv4)	
GenericIPAddressField	[protocol ="both" "IPv4" "IPv6"] [unpack_ipv4 =False]

Files

FileField	upload_to =path_or_function [storage =storage] [max_length =number]
ImageField	upload_to =path_or_function [storage =storage] [height_field =field_name] [width_field =field_name] [max_length =number]
FilePathField	path =path [match =regex] [recursive =False] [allow_files =True] [allow_folders =False] [max_length =100]

Relationships

ForeignKey	model (or "self") [limit_choices_to =dict_or_Q] [related_name =string] [to_field =field_name] [on_delete =action]
OneToOneField	model (or "self") [limit_choices_to =dict_or_Q] [related_name =string] [to_field =field_name] [on_delete =action]
ManyToManyField	[parent_link =False]

error_messages keys

null
blank
unique
invalid
invalid_choice
invalid_date

on_delete actions

CASCADE	SET_DEFAULT
PROTECT	SET(value_or_function)
SET_NULL	DO NOTHING

Model Meta attributes

abstract =False	ordering =tuple
app_label =string	permissions =tuple
db_table =string	proxy =False
db_tablespace =string	unique_together =tuple
get_latest_by =field_name	index_together =tuple
managed =True	verbose_name =string
order_with_respect_to =field_name	verbose_name_plural =string

Validators

MaxLengthValidator (length)	MaxValueValidator (value)
MinLengthValidator (length)	MinValueValidator (value)
validate_email	validate_ipv4_address
validate_slug	validate_ipv6_address
validate_url	validate_ipv46_address
RegexValidator ([regex =""], [message ="Enter a valid value"], [code ="invalid"])	validate_comma_separated_integer_list

QuerySets

Methods that return QuerySets	QuerySet & Queries	
all ()	exact =value None	lt =value
none ()	iexact =value	lte =value
filter (query)	contains =string	in =iterable queryset
exclude (query)	icontains =string	range =(start, end)
order_by (field, ...)	startswith =string	year =year
reverse ()	istartswith =string	month =1 – 12
annotate (aggregate_query)	endswith =string	day =1 – 31
distinct ([field, ...])	iendswith =string	week_day = 1 (Sun) – 7 (Sat)
values (field, ...)	regex =pattern	1 (Sun) – 7 (Sat)
values_list (field, ..., [flat=False])	iregex =pattern	isnull =boolean
dates (field, kind="year month day", [order="ASC DESC"])	gt =value	search = mysql fulltext query
select_related ([field, ...])	gte =value	
prefetch_related ([field, ...])		
defer (field, ...)		
only (field, ...)		
using (database_alias)		
select_for_update ([nowait=False])		
extra ([select=...], [select_params=...], [tables=...], [where=...], [params=...], [order_by=...])		
	Aggregation functions	
	Count (field, [distinct=False])	
	Sum (field)	
	Max (field)	
	Min (field)	
	Avg (field)	
	StdDev (field, [sample=False])	
	Variance (field, [sample=False])	

Other methods

get (query) → instance	aggregate (aggregate_query) → dict
create (query) → instance	update (field=value, ...)
get_or_create (query) → (instance created)	delete ()
earliest ([field_name]) → instance	in_bulk (ids) → instances dict, keyed by id
latest ([field_name]) → instance	bulk_create (instances, [batch_size=number])
exists () → boolean	iterator () → iterator
count () → number	

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ModelAdmin

List columns

list_display = *field_names*
list_display_links = *field_names*
list_editable = *field_names*
list_filter = *field_names*
search_fields = *field_names*
date_hierarchy = *field_name*

List actions

actions = *list*
actions_on_top = *True*
actions_on_bottom = *False*
actions_selection_counter = *True*
ordering = *field_names*

List options

ordering = *field_names*
list_select_related = *False*
list_per_page = *100*
list_max_show_all = *200*
paginator = *paginator_class*

Form contents

fields = *field_names*
exclude = *field_names*
inlines = *inline_classes*
readonly_fields = *field_names*
raw_id_fields = *field_names*
prepopulated_fields = *dict*
 {'slug': ('title',), ...}
form = *form_class*
formfield_overrides = *dict*
save_as = *False*

Saving

save_model(self, request, obj, form, is_change) – must call obj.save()
delete_model(self, request, obj) – must call obj.delete()
save_formset(self, request, form, formset, is_change) – must call formset.save()
save_related(self, request, form, formsets, is_change) – must call save() for each formset

Permissions

has_add_permission(self, request) → *boolean*
has_change_permission(self, request, obj=None) → *boolean*
has_delete_permission(self, request, obj=None) → *boolean*

URLs

get_urls(self) → *urlpatterns*

Form contents

filter_horizontal = *field_names*
filter_vertical = *field_names*
radio_fields = *dict*:
 {'choice_field': HORIZONTAL | VERTICAL, ...}
fieldsets = *dict*:
 (
 (title | None, {
 'fields': *field_names*,
 'classes': *list*,
 'description': *string*,
 }), ..
)

save_on_top = *False*

Form layout

add_form_template = *template*
change_form_template = *template*
change_list_template = *template*
delete_confirmation_template = *template*
delete_selected_confirmation_template = *template*
object_history_template = *template*

Templates

add_form_template = *template*
change_form_template = *template*
change_list_template = *template*
delete_confirmation_template = *template*
delete_selected_confirmation_template = *template*
object_history_template = *template*

Queryset

queryset(self, request) → *queryset*

Change List

get_ordering(self, request) → *field_names*
get_list_display(self, request) → *field_names*
get_list_display_links(self, request, list_display) → *field_names*
get_list_filter(self, request) → *field_names*
get_changelist(self, request, **kwargs) → *ChangeList_class*
get_changelist_form(self, request, **kwargs) → *ModelForm_class*
get_changelist_formset(self, request, **kwargs) → *ModelFormSet_class*
get_paginator(self, request, queryset, per_page, orphans=0, allow_empty_first_page=True) → *paginator*

Add/Change Form

get_readonly_fields(self, request, obj=None) → *field_names*
get_prepopulated_fields(self, request, obj=None) → *prepopulated_fields_dict*
get_fieldsets(self, request, obj=None) → *fieldsets_tuple*
get_form(self, request, obj=None, **kwargs) → *form_class*
get_inline_instances(self, request, obj=None) → *inline_instances_tuple*
get_formsets(self, request, obj=None) → *yields InlineModelAdmins*
formfield_for_choice_field(self, db_field, request, **kwargs) → *field*
formfield_for_foreignkey(self, db_field, request, **kwargs) → *field*
formfield_for_manytomany(self, db_field, request, **kwargs) → *field*

InlineModelAdmin

Standard subclasses

StackedInline
TabularInline

Attributes & methods

model = *model* (mandatory)
fk_name = *field*
form = *ModelForm*
formset = *BaseInlineFormSet*
extra = *1*
max_num = *number*
verbose_name = *string*
verbose_name_plural = *string*
can_delete = *True*
template = *template*
get_formset(self, request, obj=None) → *BaseInlineFormSet_class*

AdminSite

login_form = *form*
index_template = *template*
login_template = *template*
logout_template = *template*
password_change_template = *template*
password_change_done_template = *template*

mercurytide

Mercurytide is built upon a foundation of great people. We love all things digital, and our clients benefit from our full-service delivery - from strategy and thorough production to ongoing support. In order to keep up with the demand for our expert services, Mercurytide is growing.

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Don't forget be our friend on Facebook and link up with us on LinkedIn.

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