Filters

Text formatting Dates & times Escaping humanize *library*

DJANGO CHEAT SHEET Version 1.5

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Template tags

|**lower**

|**upper**

|**title**

|**capfirst**

|**slugify**

|**ljust**: *width*

|**rjust**: *width*

|**center**: *width*

|**wordwrap**: *width*

|**date**: *format*

|**time**: *format*

|**timesince**[: *datetime*]

|**timeuntil**[: *datetime*]

Lists

|**length**

|**length\_is**: *length*

|**first**

|**last**

|**safe**

|**safeseq**

|**escape**

|**force\_escape**

|**escapejs**

|**addslashes**

|**fix\_ampersands**

|**iriencode**

|**urlencode**[: *safe\_chars*]

|**apnumber**

|**intcomma**

|**intword**

|**naturalday**[: *format*]

|**naturaltime**

|**ordinal**

i18n *library*

|**language\_name**

|**language\_name\_local**

Built in

{% **autoescape on**|**off** %} — {% **endautoescape** %}

{% **block** *name* %} — {% **endblock** %}

{% **comment** %} — {% **endcomment** %}

{% **csrf\_token** %}

{% **cycle** "even" "odd" [**as** *name* [**silent**]] %}

{% **cycle** *name* %}

{% **debug** %}

{% **extends** *template* %}

{% **filter** *filter1*|*filter2* %}

{% **firstof** *var1 var2* ... *default* %}

Does not auto-escape

{% **for** *var*[...] **in** *list* %} — [{% **empty** %}] — {% **endfor** %}

forloop.counter forloop.counter0 forloop.revcounter forloop.revcounter0

comments *library*

{% **comment\_form\_target** %}

{% **get\_comment\_count for** *var* **as** *name* %}

{% **get\_comment\_form for** *var* **as** *name* %}

{% **get\_comment\_list for** *var* **as** *name* %}

{% **get\_comment\_permalink** *comment* [*format\_string*] %}

{% **render\_comment\_form for** *var* %}

{% **render\_comment\_list for** *var* %}

flatpages *library*

{% **get\_flatpages** [*url\_prefix*] **as** *name* %}

i18n *library*

{% **blocktrans** [**context** *context\_name*]

[**with** *name=value* ...] %} — {% **endblocktrans** %}

|**wordcount**

|**striptags**

|**removetags**: "p br"

Case sensitive.

|**cut**: *substring*

|**linebreaks**

|**linebreaksbr**

|**linenumbers**

|**phone2numeric**

|**truncatechars**: *count*

|**truncatewords**: *count*

|**truncatewords\_html**: *count*

|**urlize**

|**urlizetrunc**: *length*

|**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”]

General

|**default**: *value*

|**default\_if\_none**: *value*

|**dictsort**: *key*

|**dictsortreversed**: *key*

|**pprint**

|**stringformat**: *format*

|**yesno**[: "yes,no[,none]"]

|**bidi**

l10n *library*

|**localize**

|**unlocalize**

tz *library*

|**localtime**

|**timezone**: *tz\_name*

|**utc**

forloop.first forloop.parentloop forloop.last

{% **if** *expression* %} — [{% **elif** *expression* %}] —

{% **blocktrans count** *name=value* [**context**, **with** etc.] %} —

{% **plural** %} — {% **endblocktrans**%}

{% **get\_available\_languages as** LANGUAGES %}

Template date formats

Year AM & PM Localized

[{% **else** %}] — {% **endif** %}

Comparisons: == != < <= > >= in not in

{% **get\_current\_language as** LANGUAGE\_CODE %}

{% **get\_current\_language\_bidi as** LANGUAGE\_BIDI %}

**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

Boolean: and or not

{% **ifchanged** [*var1*] [*var2* ...] %} — {% **endifchanged** %}

{% **get\_language\_info for** "en" **as** *lang* %}

lang.code lang.name

lang.name\_local lang.bidi

Month

Hour

**H**

00 to 23

**DATE\_FORMAT** Long date

**SHORT\_DATE\_FORMAT** Short date

{% **include** *template* [**with** *name=value* ... [**only**]] %}

{% **load** *library* ... %}

{% **load** *tag* ... **from** *library* %}

{% **now** [*timeformat*] %}

{% **regroup** *list* **by** *attr* **as** *name* %}

{% **spaceless** %} — {% **endspaceless** %}

{% **ssi** *path* [**parsed**] %}

{% **get\_language\_info for** *list\_of\_codes* **as** *lang* %}

{% **trans** *string* [**context** *context\_name*] [**as** *name*] [**noop**] %}

l10n *library*

{% **localize on**|**off** %} — {% **endlocalize** %}

static *library*

{% **get\_media\_prefix** [**as** *name*] %}

**F** January

**E** (localised full date form)

**M** Jan

**b** jan

**N** Jan. (A.P.)

**n** 1 to 12

**m** 01 to 12

**G** 0 to 23

**h** 01 to 12

**g** 1 to 12

Minutes

**i** 00 to 59

Seconds

**TIME\_FORMAT** Time

Timezone

**T** TZ code: EST, CET

**e** TZ name: GMT, -500, US/Eastern

**O** TZ offset: +0200

**Z** TZ offset (sec): -43200 to 43200

{% **templatetag** openblock %}

{% **get\_static\_prefix** [**as** *name*] %}

**s** 00 to 59

Misc

open|close...block|variable|brace|comment

{% **static** *path* [**as** *name*] %}

Day

µs **I**

DST in effect: 1 or 0

{% **url** "[*app:*]*viewname*" [*arg* ...] [*kwarg*=*value* ...] [**as** *name*] %}

staticfiles *library*

**d** 01 to 31

**u** 000000 to 999999

**L** Is leap year: True or False

{% **verbatim** [*name*] %} — {% **endverbatim** [*name*] %}

**j** 1 to 31

Time **z**

Day of year: 0 to 365

{% **widthratio** *value maxvalue maxwidth* %}

= value / maxvalue \* maxwidth

{% **static path** [**as** *name*] %} **S**

tz *library*

suffix: st, nd, rd or th

**f** 1, 1:30 1 a.m.

**P** 1 a.m. 1:30 p.m.,

**t** Days in month: 28 to 31

**W** Week number: 1 to 53

{% **with** *name*=*value*[...]%} — {% **endwith** %}

{% **get\_current\_timezone** [**as** TIME\_ZONE] %}

Day of week

midnight , noon

**o** Week-numbering year: 2013

{% **localtime on**|**off** %} — {% **endlocaltime** %}

**l** Friday

Standards

cache *library*

{% **cache** *seconds name* [*vary\_by* ...] %} — {% **endcache** %}

{% **timezone** *time\_zone\_name* %} — {% **endtimezone** %}

webdesign *library*

{% **lorem** [*number*] [**w**|**p**|**b**] [**random**] %}

**D** Fri

**w** 0 (Sun) to 6 (Sat)

**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

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Form fields

Form & widget Media

**class Media:**

**css =** {"**all**|**screen**|**print**": (*filenames*), ... }

**js =** (*filenames*) [**extend =** True]

Formsets

*FormSetClass* = **formset\_factory**(*form*, [**extra**=1,] [**max\_num**=None], [**can\_order**=False], [**can\_delete**=False], [**formset**=**BaseFormSet**])

Common kwargs

**required**=True **label**=*string* **help\_text**=*string* **initial**=*value\_or\_function*

**validators**=*list\_of\_validators*

Dates & Times

**DateField TimeField DateTimeField SplitDateTimeField**

[**input\_formats**=*iterable*] [**input\_formats**=*iterable*] [**input\_formats**=*iterable*] [**input\_date\_formats**=*iterable*] [**input\_time\_formats**=*iterable*]

Validators

**MaxLengthValidator**(*length*) **MinLengthValidator**(*length*) **validate\_email validate\_slug**

**validate\_url**

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

Formset attributes

*formset*.**empty\_form**

*formset*.**management\_form**

**widget**=*Widget\_class*

Numbers

**RegexValidator**([**regex**=" "],

*formset*.**ordered\_forms**

**error\_messages**=*dict*

**localize**=False

(e.g. localize dates, decimals)

Boolean

**BooleanField**

**NullBooleanField**

Strings

**IntegerField FloatField DecimalField**

Files

[**max\_value**=*int*] [**min\_value**=*int*] [**max\_value**=*float*] [**min\_value**=*float*] [**max\_digits**=*number*] [**decimal\_places**=*number*] [**max\_value**=*decimal*] [**min\_value**=*decimal*]

[**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**

Form attributes

*form*.**ORDER**

*form*.**DELETE**

**CharField**

**SlugField**

[**min\_length**=*number*]

[**max\_length**=*number*] [**min\_length**=*number*] [**max\_length**=*number*]

**FileField**

**ImageField**

[**max\_length**=*number*] (of filename) [**allow\_empty\_file**=False] [**max\_length**=*number*] (of filename)

Widgets

General

**TextInput**

Choices

**Select**

[**choices**=*iterable*]

**RegexField**

Choices

**ChoiceField**

**regex**=*regex* [**min\_length**=*number*] [**max\_length**=*number*]

**choices**=*iterable*

**FilePathField**

[**allow\_empty\_file**=False]

[**path**=*directory\_path*] [**recursive**=False] [**match**=*regex*] [**allow\_files**=True] [**allow\_folders**=False]

**PasswordInput HiddenInput TextArea**

Dates & times

[**format**=date\_format]

**NullBooleanSelect**

**RadioSelect SelectMultiple CheckboxSelectMultiple MultipleHiddenInput**

[**choices**=((1, "Unknown"),

(2, "Yes"), (3, "No"))] [**choices**=*iterable*] [**choices**=*iterable*] [**choices**=*iterable*] [**choices**=*iterable*]

**TypedChoiceField**

**choices**=*iterable* [**coerce**=*function*] [**empty\_value**=" "]

Internet

**EmailField**

[**min\_length**=*number*] [**max\_length**=*number*]

**DateInput DateTimeInput TimeInput**

[**format**=*date\_format*] [**format**=*datetime\_format*] [**format**=*time\_format*]

Files

**FileInput**

**ClearableFileInput**

**MultipleChoiceField**

**TypedMultipleChoiceField**

**choices**=*iterable*

**choices**=*iterable*

[**coerce**=*function*]

**URLField**

**IPAddressField** (IPv4)

[**min\_length**=*number*] [**max\_length**=*number*]

**SplitDateTimeWidget** [**date\_format**=*date\_format*]

[**time\_format**=*time\_format*]

**SplitHiddenDateTimeWidget**

Common kwargs

**ModelChoiceField**

[**empty\_value**=" "]

**queryset**=*queryset*

**GenericIPAddressField**

(IPv4/IPv6)

[**protocol**="**both**"|"**IPv4**"|"**IPv6**"] [**unpack\_ipv4**=False]

**SelectDateWidget**

[**years**=iterable]

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

**ModelMultipleChoiceField**

[**empty\_label**="------"]

[**cache\_choices**=*False*]

**queryset**=*queryset*

Misc

**ComboField**

[fields=*tuple*]

ModelForms & ModelFormSets

ModelForm Meta attributes Factories

[**cache\_choices**=*False*]

**MultiValueField**

[fields=*tuple*]

**abstract**=*False*

**exclude**=*tuple*

**modelform\_factory**(*model*, [**form**=FormClass,]

[**fields**=*tuple*,] [**exclude**=*tuple*,] [**widgets**=*dict*])

error\_messages keys

**app\_label**=*string*

**widgets**=*dict*

**modelformset\_factory**(*model* **queryset**

queryset ]

**required**

**invalid** (int, email, etc.)

**max\_value**

**missing** (file)

**invalid\_list**

**db\_table**=*string*

{ "field": TextInput() }

,

[**formset**=BaseModelFormSet,]

= ,

...)

**min\_length max\_length**

**invalid\_date invalid\_time**

**max\_digits max\_decimal\_places**

**empty** (file)

**invalid\_image**

**model**=*model*

**fields**=*tuple*

**inlineformset\_factory**(*parent\_model*, *child\_model*,

[**fk\_name** *field* ] [**can\_delete** True ]

= , = ,

**invalid\_choice**

**min\_value**

**max\_whole\_digits**

**invalid\_pk\_value**

[**formset**=BaseInlineFormSet,] ...)

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Internet

Model Meta attributes **abstract**=False **app\_label**=*string* **db\_table**=*string* **db\_tablespace**=*string*

**get\_latest\_by**=*field\_name*

**ordering**=*tuple* **permissions**=*tuple* **proxy**=False **unique\_together**=*tuple* **index\_together**=*tuple*

Model fields showing defaults

Common kwargs

**EmailField**

**URLField**

[**max\_length**=75] [**max\_length**=200]

**managed**=True

**order\_with\_respect\_to**=*field\_name*

**verbose\_name**=*string*

**verbose\_name\_plural**=*string*

**null**=False **blank**=False **choices**=*iterable*

**help\_text**=*string* **primary\_key**=False **unique**=False

**IPAddressField (IPv4) GenericIPAddressField**

[**protocol**="**both**"|"**IPv4**"|"**IPv6**"] [**unpack\_ipv4**=False]

Validators

**MaxLengthValidator**(*length*)

**MaxValueValidator**(*value*)

**db\_column**=*name*

**unique\_for\_date**=*date\_field\_name*

Files

**MinLengthValidator**(*length*)

**MinValueValidator**(*value*)

**db\_index**=False

**default**=*value\_or\_function* **editable**=True **error\_messages**=*dict*

**unique\_for\_month**=*date\_field\_name*

**unique\_for\_year**=*date\_field\_name* **verbose\_name**=*string* **validators**=*iterable*

**FileField**

**ImageField**

**upload\_to**=*path\_or\_function* [**storage**=*storage*] [**max\_length**=*number*] **upload\_to**=*path\_or\_function*

**validate\_email validate\_slug validate\_url**

**RegexValidator**([**regex**=""], [**message**=

**validate\_ipv4\_address validate\_ipv6\_address validate\_ipv46\_address validate\_comma\_separated\_integer\_list**

Numbers

[**storage**=*storage*]

"Enter a valid value”], [**code**="invalid"])

**AutoField**

Booleans

**BooleanField**

**primary\_key**=True (mandatory)

**FilePathField**

[**height\_field**=*field\_name*] [**width\_field**=*field\_name*] [**max\_length**=*number*]

**path**=*path*

QuerySets

Methods that return QuerySets QuerySet & Queries

**NullBooleanField**

Numbers

**IntegerField** (>= 32 bit) **PositiveIntegerField** (>= 32 bit) **SmallIntegerField** (DB specific size) **PositiveSmallIntegerField** (DB specific size)

[**match**=*regex*] [**recursive**=False] [**allow\_files**=True] [**allow\_folders**=False] [**max\_length**=100]

Relationships

**all**() **none**() **filter**(*query*) **exclude**(*query*) **order\_by**(*field*, ...) **reverse**()

**exact**=*value*|None **iexact**=*value* **contains**=*string* **icontains**=*string* **startswith**=*string* **istartswith**=*string*

**lt**=*value* **lte**=*value* **in**=*iterable*|*queryset* **range**=(*start*, *end*) **year**=*year*

**month**=**1** – **12**

**BigIntegerField** (64 bit)

**DecimalField**

**FloatField**

Strings

**max\_digits**=*number*

**decimal\_places**=*number*

**ForeignKey**

**OneToOneField**

*model* (or "**self**") [**limit\_choices\_to**=*dict\_or\_Q*] [**related\_name**=*string*] [**to\_field**=*field\_name*] [**on\_delete**=*action*]

*model* (or "**self**")

**annotate**(*aggregate\_query*)

**distinct**([*field*, ...])

**values**(*field*, ...)

**values\_list**(*field*, ..., [**flat**=False])

**dates**(*field*, **kind**="**year**|**month**|**day**",

[**order**="**ASC**|**DESC**"])

**endswith**=*string* **iendswith**=*string* **regex**=*pattern* **iregex**=*pattern* **gt**=*value* **gte**=*value*

**day**=**1** – **31 week\_day**=

**1** (Sun) – **7** (Sat) **isnull**=*boolean* **search**=

*mysql fulltext query*

**CharField**

**TextField SlugField CommaSeparatedIntegerField**

Strings

**max\_length**=*number*

[**max\_length**=50]

**max\_length**=*number*

**ManyToManyField**

[**limit\_choices\_to**=*dict\_or\_Q*] [**related\_name**=*string*] [**to\_field**=*field\_name*] [**on\_delete**=*action*] [**parent\_link**=False]

**select\_related**([*field*, ...])

**prefetch\_related**([*field*, ...])

**defer**(*field*, ...) **only**(*field*, ...) **using**(*database\_alias*)

**select\_for\_update**([nowait=False])

Aggregation functions

**Count**(*field*, [**distinct**=False])

**Sum**(*field*) **Max**(*field*) **Min**(*field*)

**CharField TextField SlugField**

**CommaSeparatedIntegerField**

Dates & times

**DateField**

**DateTimeField**

**max\_length**=*number*

[**max\_length**=50]

**max\_length**=*number*

[**auto\_now**=False] [**auto\_now\_add**=False] [**auto\_now**=False]

error\_messages keys

**null blank unique invalid**

**invalid\_choice invalid\_date**

on\_delete actions

**extra**([**select**=...], [**select\_params**=...], [**tables**=...],

[**where**=...], [**params**=...], [**order\_by**=...])

Other methods **get**(*query*) → *instance* **create**(*query*) → *instance*

**get\_or\_create**(*query*) → (*instance created)*

**earliest**([*field\_name*]) → *instance*

**Avg**(*field*)

**StdDev**(*field*, [**sample**=*False*])

**Variance**(*field*, [**sample**=False])

**aggregate**(*aggregate\_query*) → *dict*

**update**(*field*=*value*, ...)

**delete**()

**in\_bulk**(*ids*) → *instances dict*, *keyed by id*

**TimeField**

[**auto\_now\_add**=False] [**auto\_now**=False] [**auto\_now\_add**=False]

**CASCADE**

**PROTECT SET\_NULL**

**SET\_DEFAULT**

**SET(***value\_or\_function***) DO\_NOTHING**

**latest**([*field\_name*]) → *instance*

**exists**() → *boolean*

**count**() → *number*

**bulk\_create**(*instances*, [**batch\_size**=*number*])

**iterator**() → *iterator*

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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*

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

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

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.

You will join a culture of exceptional people, who pride themselves on being up to speed with the latest technologies. Our forward-thinking staff have created bespoke solutions for a wide variety of clients, from local retailers to global market leaders. We champion the strengths of our staff and fuel progress by learning from each other.

Life at Mercurytide is never dull; we have a busy calendar of work, plus social events for our staff. If you are talented and think that your skill set

can benefit our clients, then drop us a line today.

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

**formfield\_overrides** = *dict*

**save\_as** = False

**queryset**(self**,** request) → *queryset*

**model** = *model* (mandatory)

**fk\_name** = *field*

**verbose\_name** = *string*

**verbose\_name\_plural** = *string*

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*

**form** = ModelForm

**formset** = BaseInlineFormSet

**extra** = 1

**max\_num** = *number*

AdminSite

**login\_form** = *form* **index\_template** = *template* **login\_template** = *template* **logout\_template** = *template*

**can\_delete** = True

**template** = *template*

**get\_formset**(self, request, obj=None) →

BaseInlineFormSet\_class

**Talented developers apply at**

[www.mercurytide.co.uk/careers](http://www.mercurytide.co.uk/careers)

URLs

**get\_urls**(self) → *urlpatterns*

**password\_change\_template** = *template*

**password\_change\_done\_template** = *template*