Celery @shared_task Reference

■ Arguments of @shared_task

Argument	Туре	Default	Description	Example	
name	str	module.func	_ ⊼aste name (string identifier)	@shared_task(name='tas	ks.add')
bind	bool	False	If True, passes self (Task instance) as first a	ar@shared_task(bind=True))
max_retries	int	3	Max retries when calling retry()	@shared_task(max_retrie	s=5)
default_retry_delay	int	3	Default delay before retry	@shared_task(default_ret	ry_delay
autoretry_for	tuple	()	Exceptions that trigger auto-retry	@shared_task(autoretry_f	or=(Valu
retry_kwargs	dict	{}	Extra kwargs for retry()	@shared_task(retry_kwar	gs={'cou
acks_late	bool	False	Ack only after success (ensures redelivery if	coessha)red_task(acks_late=	True)
ignore_result	bool	False	Do not store task result	@shared_task(ignore_res	ult=True
rate_limit	str	None	Rate limit execution (e.g. '10/s')	@shared_task(rate_limit=	'5/m')
time_limit	int	None	Hard execution time limit	@shared_task(time_limit=	:30)
soft_time_limit	int	None	Soft limit, raises SoftTimeLimitExceeded	@shared_task(soft_time_	limit=25)

■ Task Methods (when bind=True)

Method	Arguments	Description	Example
self.retry()	exc=None, countdown=None, m	ax <u>etriceshbloas</u> k	self.retry(exc=e, countd
self.update_state()	state=None, meta=None	Updates task state (useful for progress)	self.update_state(state=
self.apply_async()	args=(), kwargs={}, countdown=	No∩mensetas⊪Nasryenchronously	self.apply_async(countd
self.apply()	args=(), kwargs={}	Runs task synchronously	self.apply(args=(2,3))
self.AsyncResult()	task_id	Returns task result object	res = self.AsyncResult(s

■ self.request Variables (when bind=True)

Variable	Description	Example
self.request.id	Task ID	3fa85f64-5717-4562-b3fc-2c963f6
self.request.args	Positional arguments	(10, 20)
self.request.kwargs	Keyword arguments	{'x': 10, 'y': 20}
self.request.retries	Number of retries so far	2
self.request.delivery_info	Broker/queue info	{'exchange': 'celery', 'routing_key'
self.request.eta	Planned execution time	2025-08-25T16:00:00
self.request.hostname	Worker hostname	celery@worker1
self.request.correlation_id	Tracing ID	abc123

■ Official Documentation: https://docs.celeryq.dev/en/stable/userguide/tasks.html