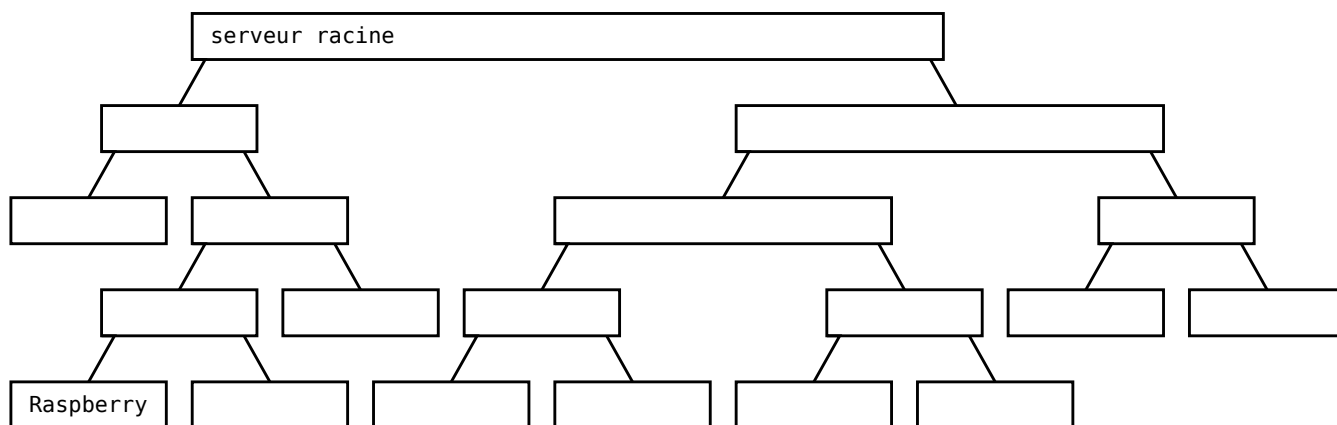
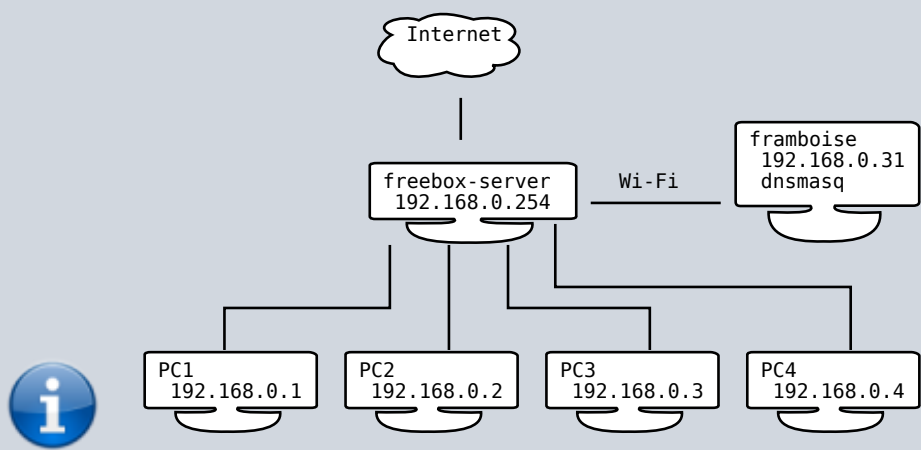


DnsMasq : utiliser votre Raspberry Pi comme serveur DNS (et accélérer Internet)

Voici un schéma des serveurs DNS ; le Raspberry Pi est au bas de l'arbre, le nœud du haut est le serveur racine qui connaît tous les noms de domaine existants :



Voici un exemple de réseau dans lequel un Raspberry Pi est le serveur DNS :



Ce réseau local comporte autour d'une freebox :

- quatre PCs : PC1, PC2, PC3, PC4
- un Raspberry pi sur lequel est installé **dnsmasq** dont on utilise les deux fonctionnalités :
 - DHCP ⇒ attribue aux clients du réseau local :
 - adresses IP
 - noms d'hôtes
 - DNS
 - domaines

2. DNS :

- résout les adresses du domaine local
- sert de de cache DNS
- transfère aux DNS externes s'il ne sait pas résoudre en local

Pré-requis

Installation

Connectez-vous à votre Raspberry Pi via SSH
Mettez à jour votre système :

```
pi@framboise4:~ $ sudo apt update  
pi@framboise4:~ $ sudo apt upgrade
```

Installez le package **DNSMasq** :

```
pi@framboise4:~ $ sudo apt install  
dnsmasq
```



DNSMasq est maintenant installé.

Configuration

Voir :

- [Comment configurer Dnsmasq, serveur dns et dhcp léger](#)
- [Dnsmasq.conf : options](#)

On ne touche pas à :



- **/etc/resolv.conf** qui renvoie vers **127.0.0.1** (dnsmasq installé sur cette machine)
 - ⇒ remplacé par **/etc/resolv.dnsmasq**

2. **/etc/dnsmasq.conf** (fichier de

configuration principal, entièrement en commentaire)

- o ⇒ remplacé par **/etc/dnsmasq.d/local.conf**

Les fichiers de configuration à utiliser sont :

Fichier à utiliser		au lieu de
/etc/hosts	résolution des noms d'hôte du réseau	
/etc/resolv.dnsmasq	serveurs DNS à utiliser	/etc/resolv.conf
/etc/dnsmasq.d/local.conf	fichier de configuration dans lequel une ligne demande d'utiliser /etc/resolv.dnsmasq	/etc/dnsmasq.conf

Configuration du Raspberry



On ne touche pas au fichier de configuration /etc/dnsmasq.conf.

La configuration sera écrite dans /etc/dnsmasq.d/*.conf

Pour une configuration basique, éditez avec les droits d'administration le fichier

/etc/dnsmasq.d/basique.conf :

[/etc/dnsmasq.d/basique.conf](#)

domain-



```
needed
bogus-
priv
expand-
hosts
domain=
me.local
```

- **domain-needed** : n'envoyer des requêtes DNS au serveur DNS principal que pour le nom de domaine
- **bogus-priv** : pas de requête DNS au serveur DNS principal s'il s'agit d'une adresse IP locale
- **expand-hosts** : servira à ajouter un faux nom de domaine pour nos appareils locaux
- **domain=me.local** : un nom de domaine local : Si un hôte se nomme pc, on peut y accéder avec pc.me.local

2. Redémarrez DNSMasq pour appliquer les modifications :

```
pi@framboise4:~
$ sudo systemctl
restart
dnsmasq.service
```

3. Pour créer un hôte local (comme pc.me.local), Éditez avec les droits

d'administration le fichier **/etc/hosts** pour ajouter à la fin une ligne pour cet hôte :

`/etc/hosts`

```
192.168  
.1.17  
pc
```

Cette ligne dit au Raspberry Pi que le nom pc permet d'atteindre l'IP 192.168.1.17 : Le Raspberry Pi peut désormais utiliser pc comme nom d'hôte et tout ordinateur utilisant le Raspberry Pi comme serveur DNS peut utiliser pc.me.local.



Fichier **/etc/hosts** du serveur DNS

Inutile d'associer freebox-server = 192.168.0.254, cela ne fonctionnera pas, même si une règle dhcp-host est spécifiée dans le fichier de configuration.



La



freebox-server est en effet configurée en IP statique sur la freebox (192.168.0.254). Elle ne lance pas de requête DHCP → dnsmaq ne reçoit donc pas de requête DHCP de la part de la freebox.

De même pour le Raspberry Pi qui héberge le serveur dnsmaq et est configuré en IP statique (bail statique dans la box ou fichier /etc/network/interfaces).

Mais en mettant ces adresses dans /etc/hosts, dnsmaq



est configuré par défaut pour les lire.

Dans le fichier /etc/hosts, il ne faut pas indiquer **framboise** pour 127.0.0.1 sinon dnsmasq répondra à une requête DNS externe par la réponse framboise → 127.0.0.1, 192.168.0.31. Le PC distant contactera alors 127.0.0.1 (donc lui-même, alors qu'il pensait contacter framboise)

Voici un exemple de contenu du fichier /etc/hosts de framboise :

[/etc/hosts](#)

```
127.0.0.1
```

```
localho  
st  
192.168  
.0.31  
framboi  
se  
192.168  
.0.31  
dns.loc  
al
```

**Fichier
/etc/dnsmasq.d/lo
cal.conf (pour ne
pas toucher à
/etc/dnsmasq.con
f)**

Voir
[http://skimpax.web4me
.fr/wiki/doku.php/linux/
dnsmasq](http://skimpax.web4me.fr/wiki/doku.php/linux/dnsmasq)

[/etc/dnsmasq.d/local.co
nf](#)



```
# Ne  
jamais  
faire  
sortir  
d'adres  
ses  
locales  
# -  
Ne  
jamais  
transme  
ttr  
les  
noms  
simples  
(sans  
point  
ni  
domaine  
)  
domain-  
needed
```



```
# -  
Ne  
jamais  
transme  
ttr  
les  
adresse  
s dans  
les  
espaces  
d'adres  
sage  
non-  
routés.  
bogus-  
priv  
  
#  
Fichier  
contena  
nt la  
définit  
ion des  
serveur  
s en  
amont  
# (au  
lieu de  
/etc/re  
solv.co  
nf)  
resolv-  
file=/e  
tc/reso  
lv.dnsm  
asq  
  
#  
Essayer  
avec  
chaque  
serveur  
dans  
l'ordre  
du  
fichier  
ci-  
dessus  
strict-  
order
```



```
# Teste  
les  
changem  
ents du  
fichier  
de  
résolut  
ion et  
le  
relit  
no-poll  
  
# Add  
other  
name  
servers  
here,  
with  
domain  
specs  
if they  
are for  
# non-  
public  
domains  
.br/>#server  
=/local  
net/192  
.168.0.  
1  
  
#  
Example  
of  
routing  
PTR  
queries  
to  
nameser  
vers:  
this  
will  
send  
all  
#  
address  
->name  
queries  
for
```



```
192.168
.3/24
to
nameser
ver
10.1.2.
3
#server
=/3.168
.192.in
-
addr.ar
pa/10.1
.2.3

# Add
local-
only
domains
here,
queries
in
these
domains
are
answere
d
# from
/etc/ho
sts or
DHCP
only.
#local=
/localn
et/

# Add
domains
which
you
want to
force
to an
IP
address
here.
# The
example
below
send
any
```



```
host in
doublec
lick.ne
t to a
local
#
webserv
er.
#adres
s=/doub
leclick
.net/12
7.0.0.1

# nom
de
l'inter
face
(par
exemple
eth0)
interfa
ce=eth0

# Pour
que
dnsmaq
ne lise
pas
/etc/ho
sts
# no-
hosts

# pour
qu'un
nom de
domaine
soit
automat
iquemen
t
ajouté
aux
noms
simples
du
fichier
hosts.
expand-
```



```
hosts
#
domaine
pour
dnsmasq
(facult
atif ;
fait
les
actions
suivant
es :
# 1)
Permet
aux
hôtes
DHCP
d'avoir
des
noms de
domaine
complet
s, tant
que la
partie
domaine
corresp
ond à
ce
paramèt
re.
# 3)
Fournit
le nom
de
domaine
pour
"expand
-hosts"
domain=
maison.
lan

#
active
le
serveur
DHCP
intégré
,
fournir
```



la
plage
d'adres
ses
disponi
bles et
éventue
llement
une
durée
de bail
dhcp-
range=1
92.168.
0.100,1
92.168.
0.150,2
4h

Baux
statiqu
es avec
:
adresse
MAC,nom
,adress
e IP,
durée
du bail

Baux
permane
nts
dhcp-
host=00
:24:d4:
af:a8:0
c,freeb
ox-
server,
192.168
.0.254,
infini
te
dhcp-
host=00
:24:d4:
7c:59:5
3,freeb
ox-



```
player,
192.168
.0.253,
infinite
dhcp-
host=2C
:B0:5D:
8B:6C:1
2,swnet
gear,19
2.168.0
.239,in
finite
dhcp-
host=14
:DA:E9:
6B:B2:0
3,omv,1
92.168.
0.250,i
nfinite
dhcp-
host=00
:50:43:
01:51:9
A,sheeb
ian,192
.168.0.
252,inf
inite
dhcp-
host=00
:22:F4:
42:A3:B
1,picun
tu,192.
168.0.2
04,infi
nite
#
Baux à
durée
limitée
dhcp-
host=d0
:66:7b:
03:fa:6
6,samsu
ngtv,19
2.168.0
```



```
.20,48h
dhcp-
host=00
:1e:8f:
61:a4:0
a,impri
mante,1
92.168.
0.21,48
h
dhcp-
host=E0
:2A:82:
5B:34:F
8,domad
ix,192.
168.0.1
0,48h

#
Donner
à la
machine
qui
annonce
se
nommer
"Squeez
eboxTou
ch"
l'adres
se IP
192.168
.0.115
et un
bail
permane
nt
dhcp-
host=Sq
ueezebo
xTouch,
192.168
.0.115,
infini
te

#
Remplac
er la
```



```
route
par
défaut
fournie
par
Dnsmasq
(qui
suppose
que le
routeur
est sur
la même
machine
que
dnsmasq
)
#
ici:
mettre
l'IP de
la
freebox
comme
routeur
par
défaut
dhcp-
option=
option:
router,
192.168
.0.254

# Set
the
cachesi
ze
here.
cache-
size=25
6

#
ajouter
une
directi
ve de
journal
isation
, non
include
```



```
par  
défaut  
log-  
facilit  
y=/var/  
log/dns  
maq.lo  
g
```

```
#  
Pour le  
débogag  
e,  
journal  
iser  
chaque  
requête  
DNS qui  
passe  
par  
Dnsmaq  
.log-  
queries
```

```
#  
journal  
iser  
beaucou  
p  
d'infor  
mations  
supplém  
entaire  
s sur  
les  
transac  
tions  
DHCP.  
log-  
dhcp
```

**Fichier
/etc/resolv.dnsma
sq (pour ne pas
toucher à
/etc/resolv.conf)**



Le fichier resolv.conf renvoie vers dnsmasq qui est installé sur cette machine :

Le fichier /etc/resolv.dnsmasq spécifie les serveurs DNS externes à utiliser par dnsmasq :

[/etc/resolv.conf](#)

```
nameserver  
127.0.0.1
```



Dnsmasq a été configuré pour respecter l'ordre de ce fichier (les préférés en premiers), cf. directive strict-order

Voici un exemple :

[/etc/resolv.dnsmasq](#)

```
# Free  
nameser  
ver  
212.27.  
40.240  
nameser  
ver  
212.27.  
40.241
```

```
#  
OpenDNS  
nameser  
ver  
208.67.  
222.222  
nameser  
ver  
208.67.  
220.220
```

```
# OVH  
nameser  
ver  
91.121.  
161.184  
nameser  
ver  
91.121.  
164.227  
nameser  
ver  
188.165  
.197.14  
4
```

```
#  
Google  
nameser  
ver  
8.8.8.8  
nameser  
ver  
4.4.4.4
```



Journalisation

Lorsqu'on active les traces dans dnsmasq, on se rend compte que c'est tout de suite très verbeux, notamment à causes des requêtes DNS. On configure donc les traces avec logrotate, de façon à ne pas saturer de disque.

Configurer dnsmasq

On peut activer indépendamment les traces DNS et DHCP. Un exemple avec les deux activés (commenter log-queries ou log-dhcp pour inhiber) :



```
# Define the log output
log-facility=/var/log/dnsmasq.log

# For debugging purposes, log each DNS query as it passes through
# dnsmasq.
log-queries

# Log lots of extra information about DHCP transactions.
log-dhcp
```

Les adresses IP statiques

Solution sur framboise
:

Dans **/etc/hosts**,
indiquer les hôtes
ayant une adresse IP
statique et configurer
dnsmasq pour lire le
fichier **/etc/hosts** au
démarrage. Pour cela,
commenter la règle
suivante :

```
#no-hosts
```



Dans le
fichier
/etc/hosts,
il ne faut
pas
indiquer
'framboise
' pour
127.0.0.1
sinon
dnsmasq
répondra
à une
requête
DNS
externe
par la
réponse
framboise
→
127.0.0.1,
192.168.0.
250.
L'hôte
distant
contactera
donc
127.0.0.1
(c'est-à-
dire lui-
même,
alors qu'il
pensait
contacter





framboise)

Contenu de /etc/hosts de framboise

On spécifie les hôtes avec une adresse IP statique, donc non allouée pas dnsmasq.

[/etc/hosts](#)

```
127.0.0.1
localhost
192.168.0.250
sheebian
sheebian.maison.lan
```



Contenu de /etc/resolv.conf de sheebian

Ce fichier spécifie le serveur DNS à utiliser, donc renvoie vers dnsmasq qui est installé sur cette machine.

[/etc/resolv.conf](#)

```
nameserver
127.0.0.1
```



Contenu de `/etc/resolv.dnsmaq` de framboise

Cf la page officielle de man en français :
<http://www.linuxcertif.com/man/8/dnsmaq/>

recopiée ici :
[Paramètres de dnsmaq.conf](#)

Les directives de configuration seront écrites dans un fichier **`/etc/dnsmaq.d/local.conf`** créé pour l'occasion et pris en charge automatiquement ¹⁾

Ce fichier spécifie en particulier les DNS externes à utiliser par dnsmaq (lignes **nameserver**). Dnsmaq a été configuré pour respecter l'ordre de ce fichier (les préférés en premiers), cf. directive `strict-order`

[/etc/dnsmaq.d/local.conf](#)

```
# Free  
nameserver  
212.27.  
40.240  
nameserver  
212.27.  
40.241  
  
#  
OpenDNS  
nameserver
```





```
ver
208.67.
222.222
nameser
ver
208.67.
220.220

# OVH
nameser
ver
91.121.
161.184
nameser
ver
91.121.
164.227
nameser
ver
188.165
.197.14
4

#
Google
nameser
ver
8.8.8.8
nameser
ver
4.4.4.4
```

éditez avec les droits d'administration le fichier **/etc/dnsmasq.d/local.conf** pour paramétrer les adresses IP voulues comme ceci :

On commence par empêcher de faire sortir sur internet les requêtes de domaines locaux :

Pour que dnsmasq ajoute automatiquement le nom de domaine quand il sert la



demande, ajoutez l'option **expand-hosts** et la définition du nom de domaine (**domain=**).

Avec **expand-hosts**, la recherche DNS pour **hostname.your_domain.com** sauf si **your_domain.com** est spécifié dans l'option **adresse**. Par exemple,

```
domain=your_domain.com
expand-hosts
address=/zirconium.your_domain.com/zr.your_domain.com/192.168.1.31
```



Pour faire des recherches DNS inverses, utiliser **ptr record** :

```
address=/host.example.net/10.1.2.30
ptr-record=30.2.1.10.in-addr.arpa,"host.example.net"
```

Pour créer des baux statiques, utiliser la méthode **dhcp-host** pour les adresses ci-dessus, mais avec des adresses MAC pour ceux qui en ont besoin, par exemple :

```
# This entry is simply a static DNS address, great for
```



```
mapping print
servers, etc to
names
dhcp-
host=zinc,192.16
8.1.30
# This entry
assigns the
given IP address
to the MAC
address for
static IP
addresses
# Note that the
IP address
listed does NOT
have to be in
the DHCP range
given, just on
the same subnet
dhcp-
host=11:22:33:44
:55:66,zinc,192.
168.1.30,infini
e
```



```
domain-needed
bogus-priv
```

[/etc/dnsmasq.d/local.conf](#)

```
domain-
needed
bogus-
priv
cache-
size=10
24

expand-
hosts
domain=
lan

resolv-
file=/e
tc/reso
lv.dnsm
asq
```

		<pre># Free nameserver 212.27.40.240 nameserver 212.27.40.241 # OpenDNS nameserver 208.67.222.222 nameserver 208.67.220.220 # OVH nameserver 91.121.161.184 nameserver 91.121.164.227 nameserver 188.165.197.144 # Google nameserver 8.8.8.8 nameserver 4.4.4.4 # Adresses à forcer address</pre>
---	---	---



```
=/local  
host/12  
7.0.0.1  
address  
=/framb  
oise/19  
2.168.0  
.100  
address  
=/chate  
au/192.  
168.0.1  
address  
=/trian  
on/192.  
168.0.2  
address  
=/framb  
oise.la  
n/192.1  
68.0.10  
0  
address  
=/chate  
au.lan/  
192.168  
.0.1  
address  
=/trian  
on.lan/  
192.168  
.0.2
```

domain-needed
Interdit à
Dnsmasq de
transmettre
en amont les
requêtes de
noms simples
(sans point ni
nom de
domaine).

- Si le nom n'est pas





dans
/etc/hosts ou
dans la
liste
des
baux
DHCP,
dnsmasq
répond
"non
trouvé".

- Avec **bogus-priv**, cela évite de faire sortir les requêtes de domaines locaux

bogus-priv
dnsmasq ne transmet pas aux serveurs DNS amont les requêtes DNS inverses pour des adresses IP privées (ie 192.168.x.x, etc...) qui ne sont ni dans **/etc/hosts** ni dans les baux DHCP.

- Il retourne dans ce cas "no such



domain
”.



cache-size=<taille>
taille du
cache de
Dnsmasq

- valeur par défaut : 150 noms.
- une valeur de zéro désactive le cache.

domain=<domaine>[,<gamme d'adresses>]
domaine du serveur DHCP.

- Ce domaine local sera ajouté aux noms des machines assignées par le DHCP
- Le domaine peut être donné :
 - s
a
n
s

The image shows a vertical bar with a light blue background and a central orange stripe. On the left side of the bar, there is a blue circular icon with a white lowercase letter 'i'. In the center of the orange stripe, there is a yellow triangular warning icon with a black exclamation mark. On the right side of the bar, there is a vertical list of text: 's', 'p', 'é', 'c', 'i', 'f', 'i', 'e', 'r', 'd', 'e', 'g', 'a', 'm', 'm', 'e', 'd', '·', 'a', 'd', 'r', 'e', 's', 's', 'e', 's', 'l', 'p', 'o', 'u', 'p', 'o', 'u', 'r', 'd', 'e', 's', 'g', 'a', 'm', 'm', 'e', 's', 'd', '·', 'a', 'd', 'r', 'e', 's', 's', 'e'. The text is arranged in a single column, with some characters separated by dots.



S
I
P
li
m
it
é
e
s.

3. Cela a deux effets : le serveur DHCP retourne le domaine à tous les hôtes qui le demandent cela spécifie le domaine valide pour les hôtes DHCP configurés.

4. cela empêche un hôte sur le LAN de fournir via DHCP un nom tel que par exemple "microsoft.com"

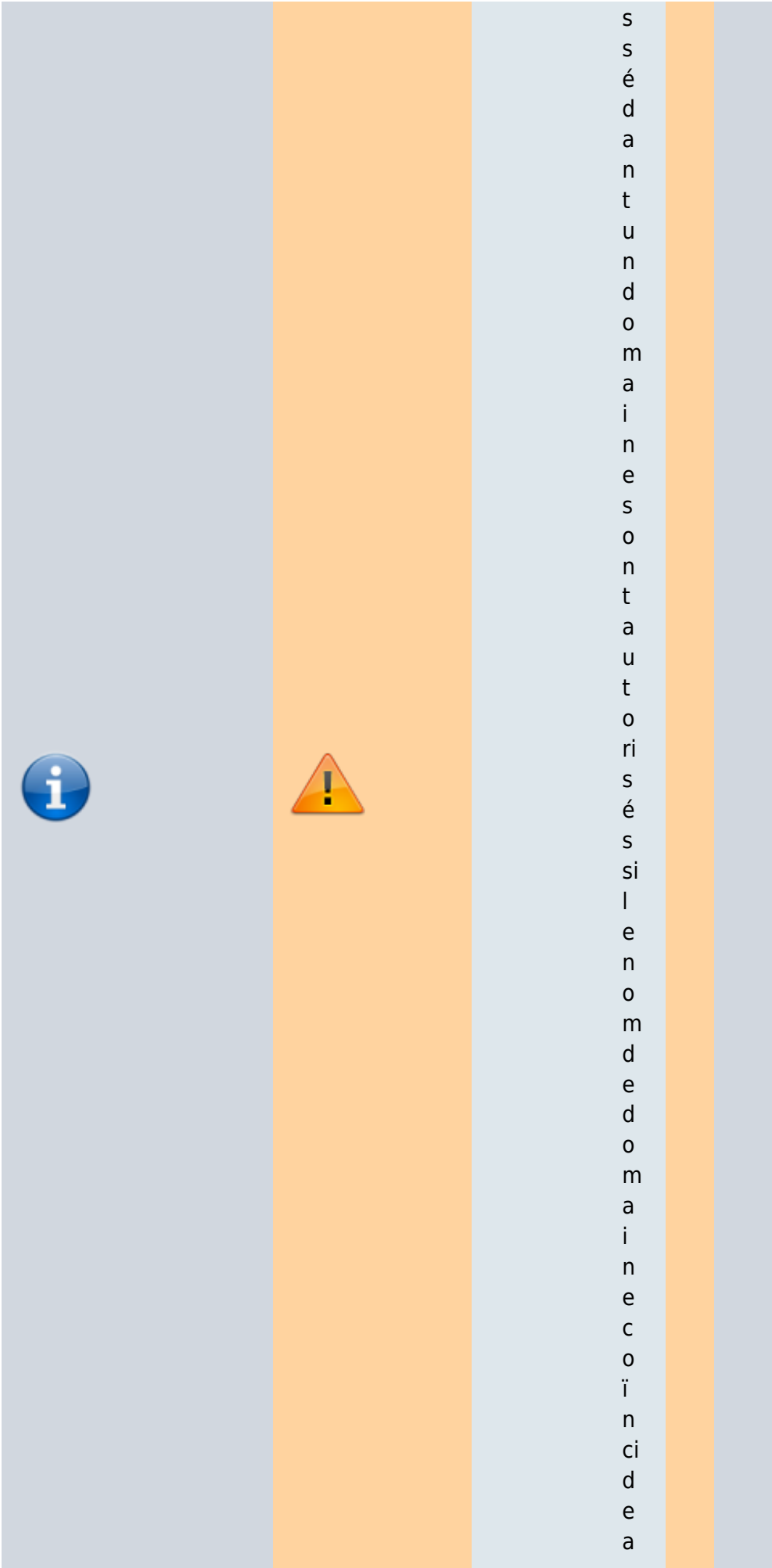


” et capture r illégitimement du trafic.

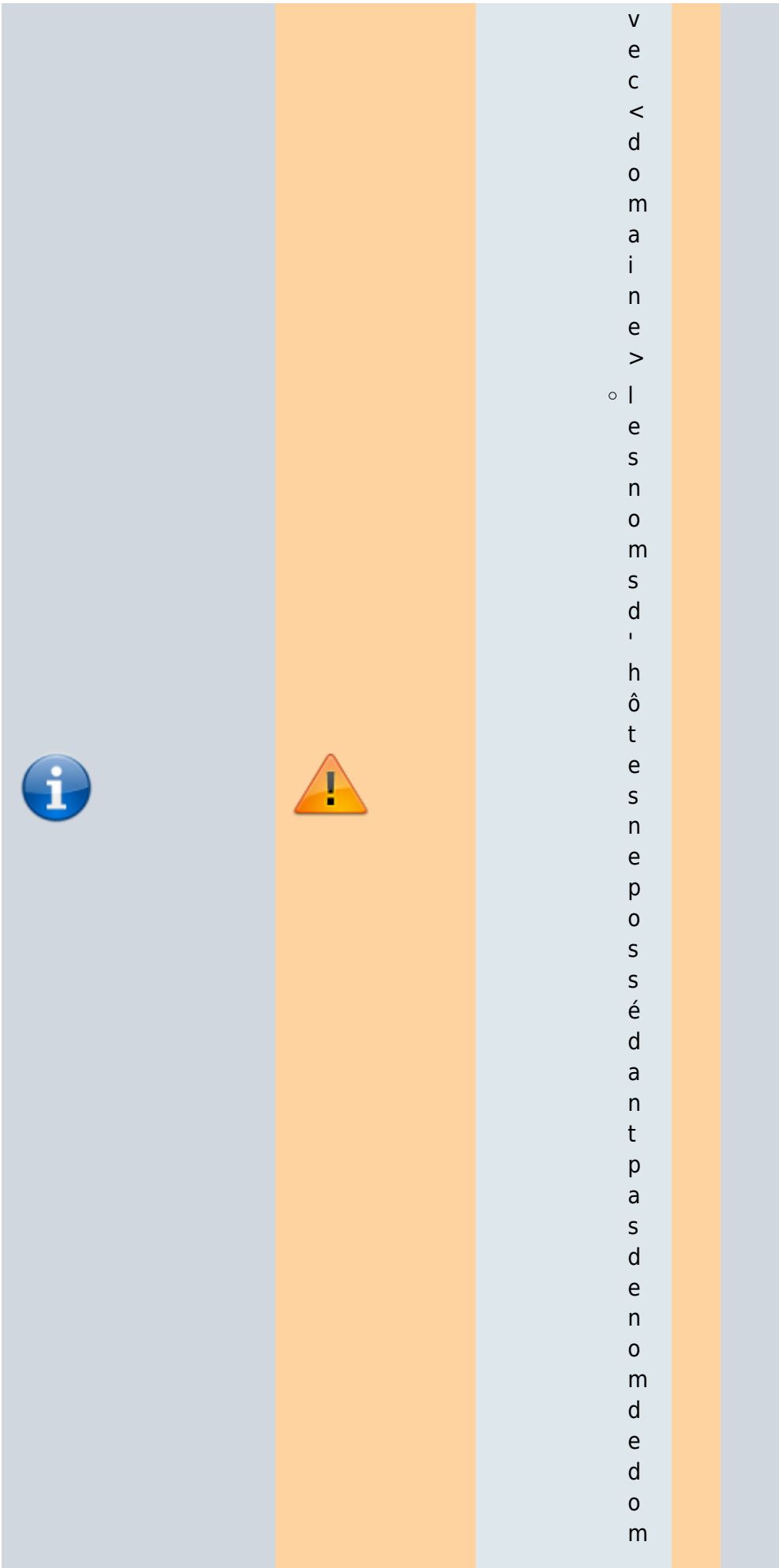
5. Si aucun nom de domaine n'est spécifié, les noms d'hôtes avec un nom de domaine (avec un point) seront interdits et enregistrés dans le journal (logs).

6. Si un suffixe est fourni,

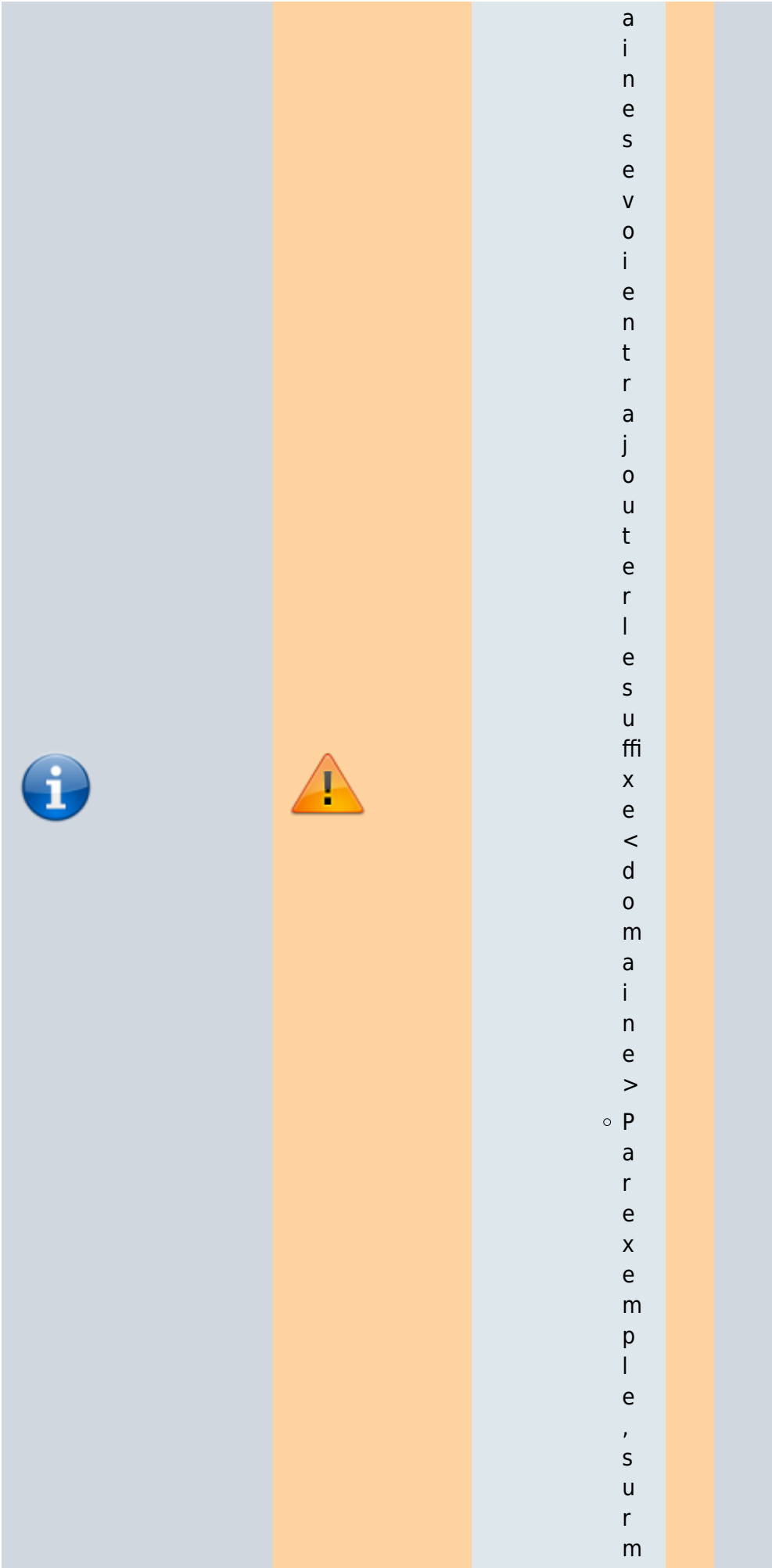
- o | e s n o m s d ' h ô t e s p o

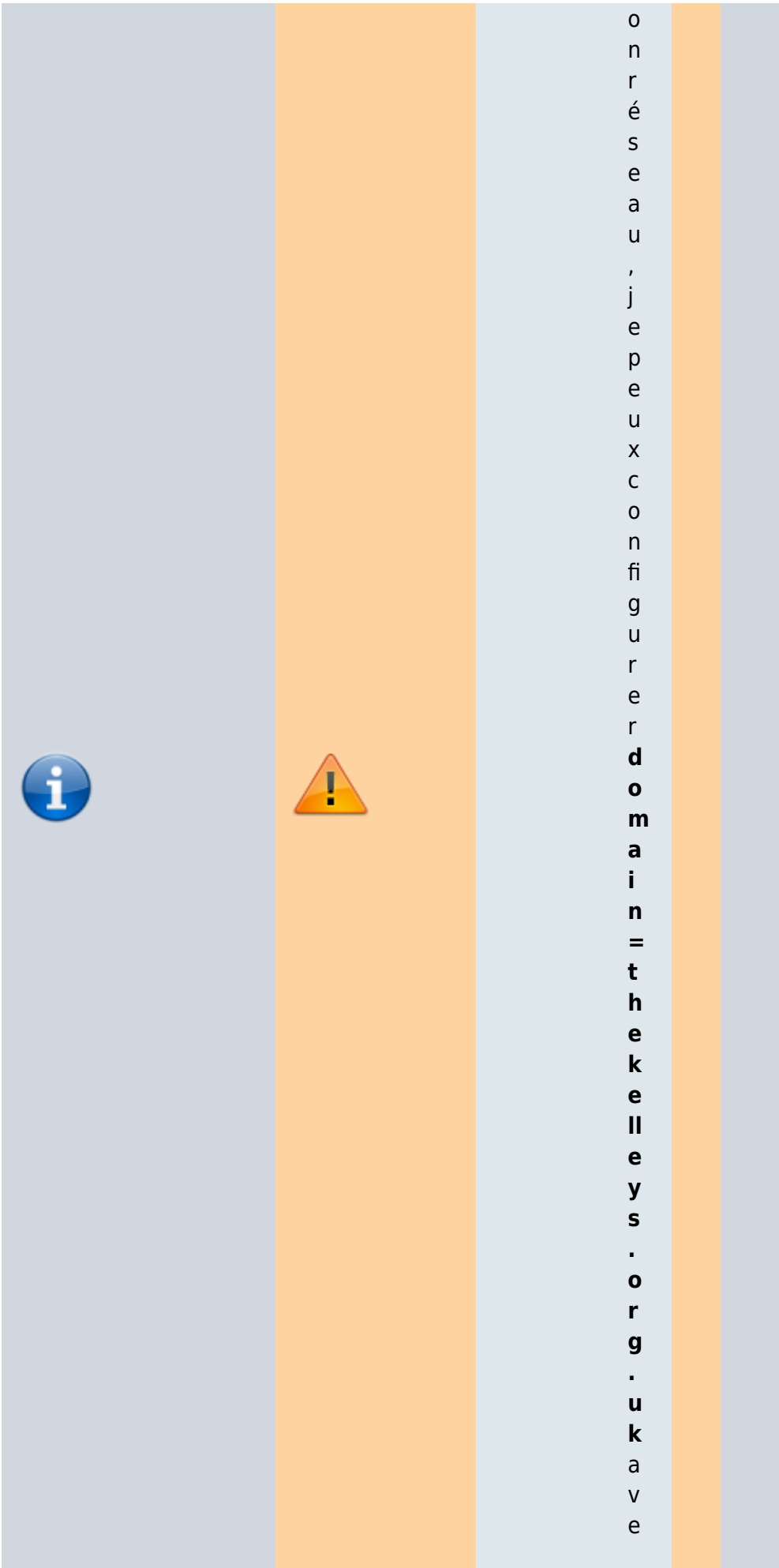


S
S
é
d
a
n
t
u
n
d
o
m
a
i
n
e
s
o
n
t
a
u
t
o
r
i
s
é
s
s
i
l
e
n
o
m
d
e
d
o
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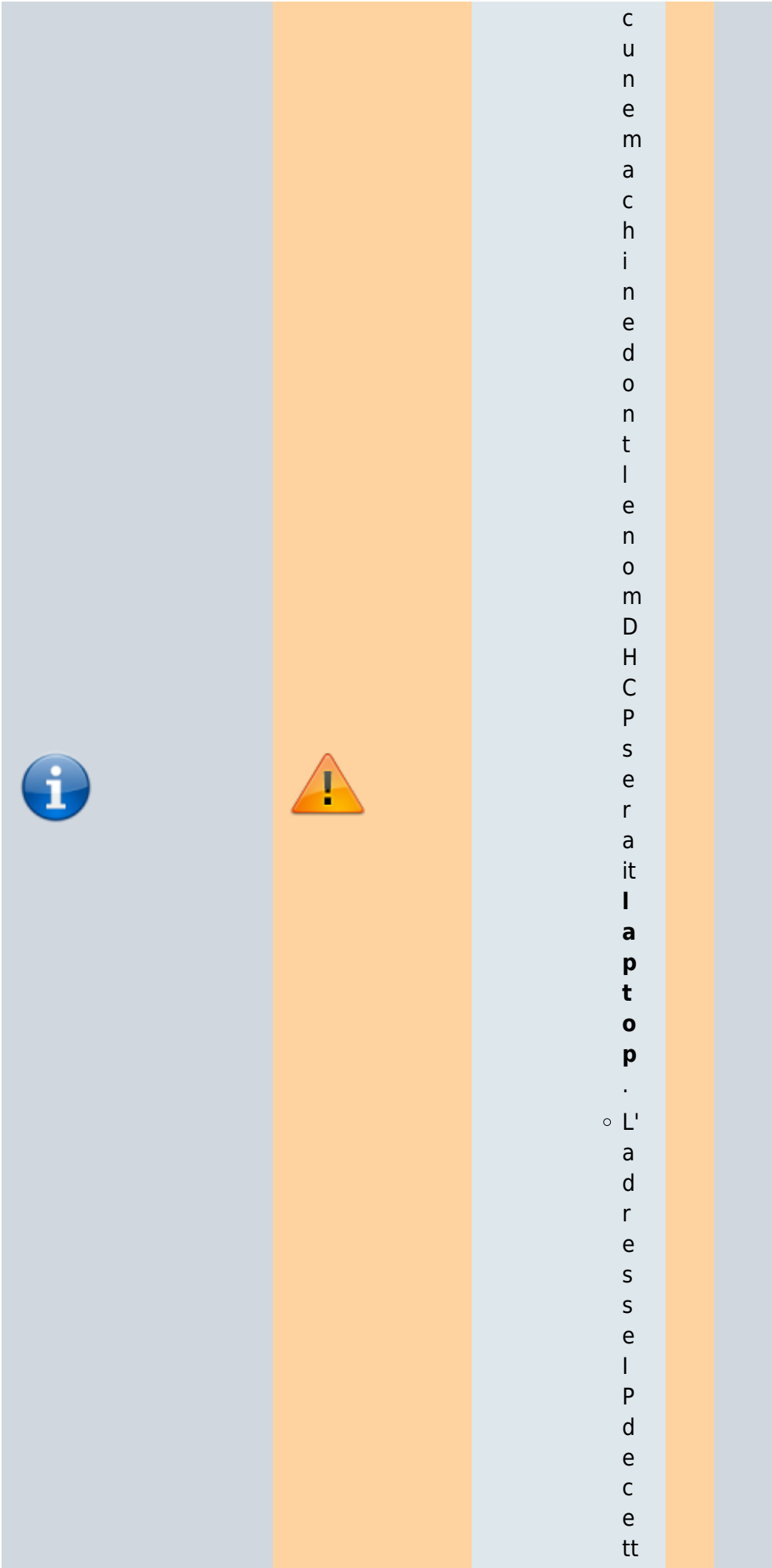


The navigation bar features a light blue background with a vertical orange highlight. On the left side, there is a blue circular icon with a white lowercase 'i'. In the center, there is a yellow triangular warning icon with a black exclamation mark. On the right side, a vertical list of menu items is displayed in a light gray font. The items are: 'v', 'e', 'c', '<', 'd', 'o', 'm', 'a', 'i', 'n', 'e', '>', 'o', 'l', 'e', 's', 'n', 'o', 'm', 's', 'd', '-', 'h', 'ô', 't', 'e', 's', 'n', 'e', 'p', 'o', 's', 's', 'é', 'd', 'a', 'n', 't', 'p', 'a', 's', 'd', 'e', 'n', 'o', 'm', 'd', 'e', 'd', 'o', 'm'.





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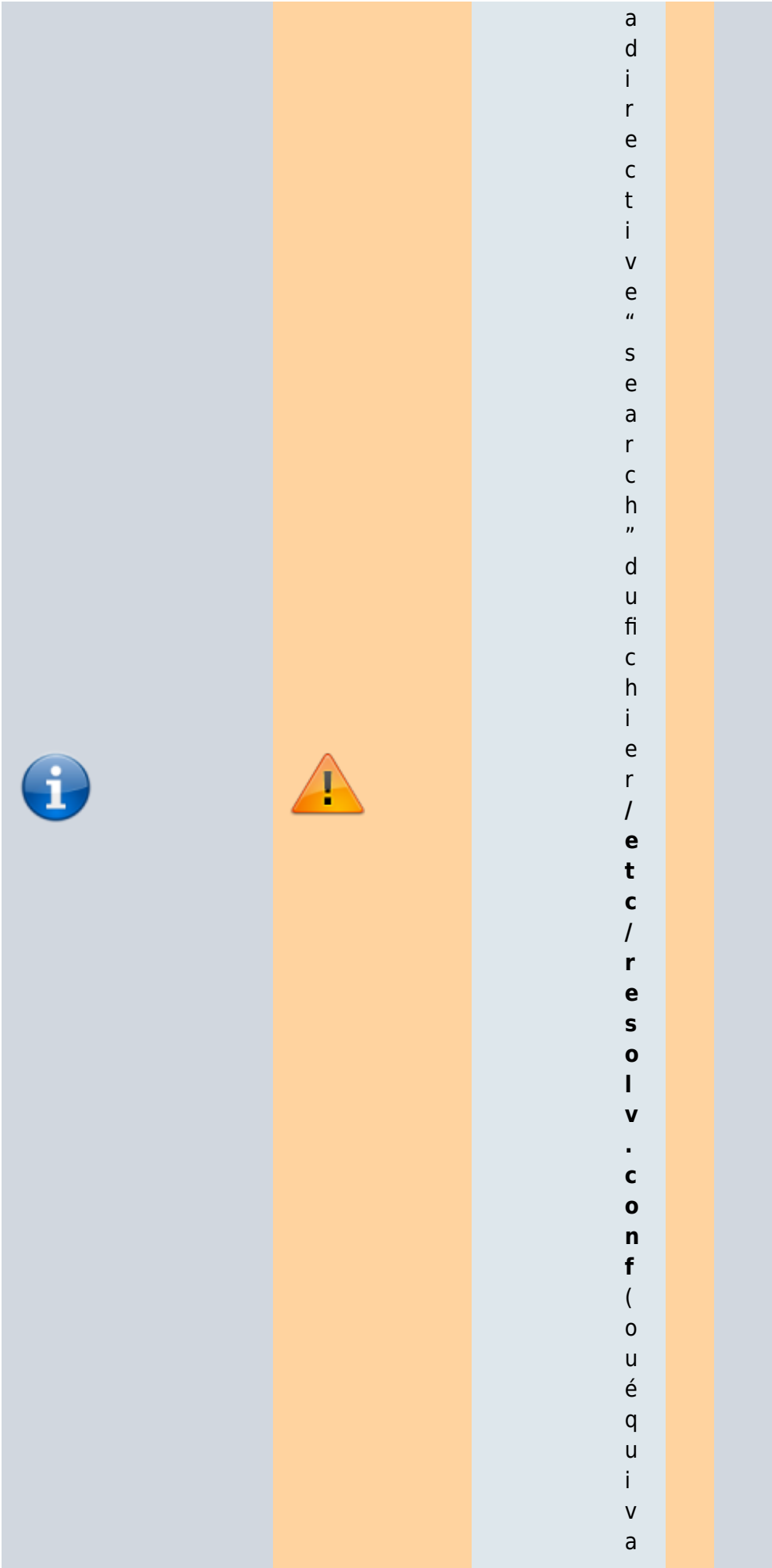
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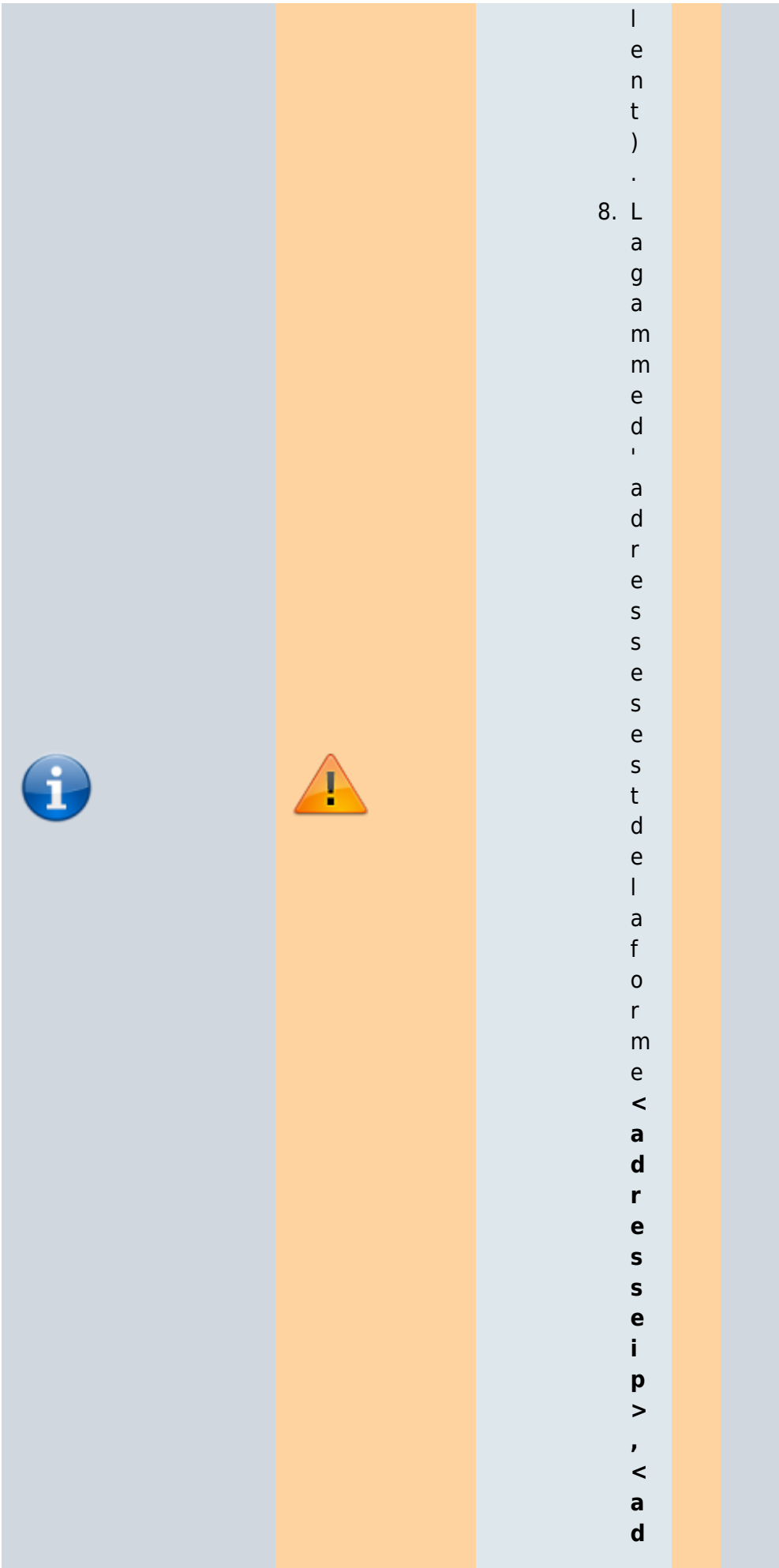
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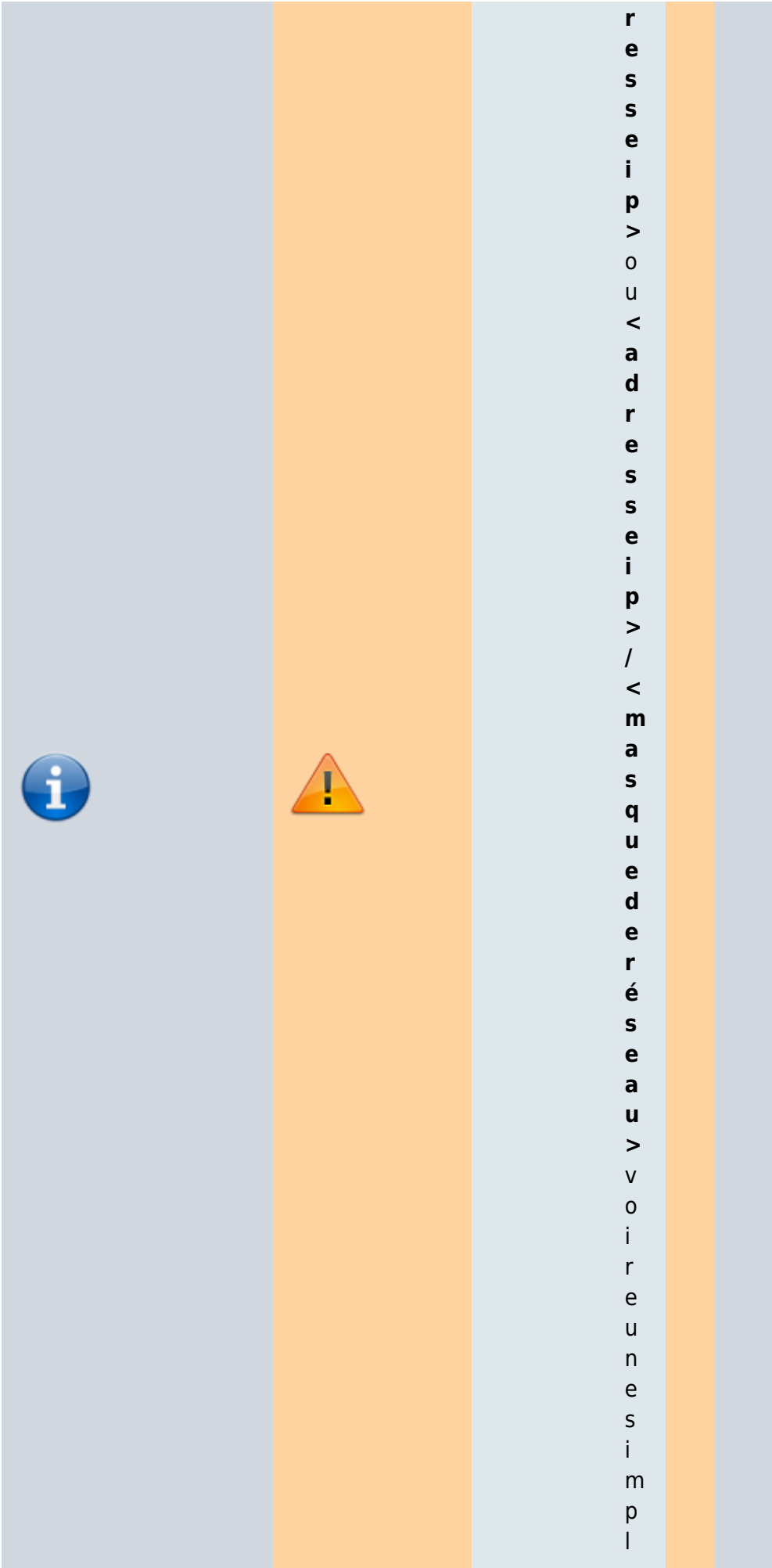
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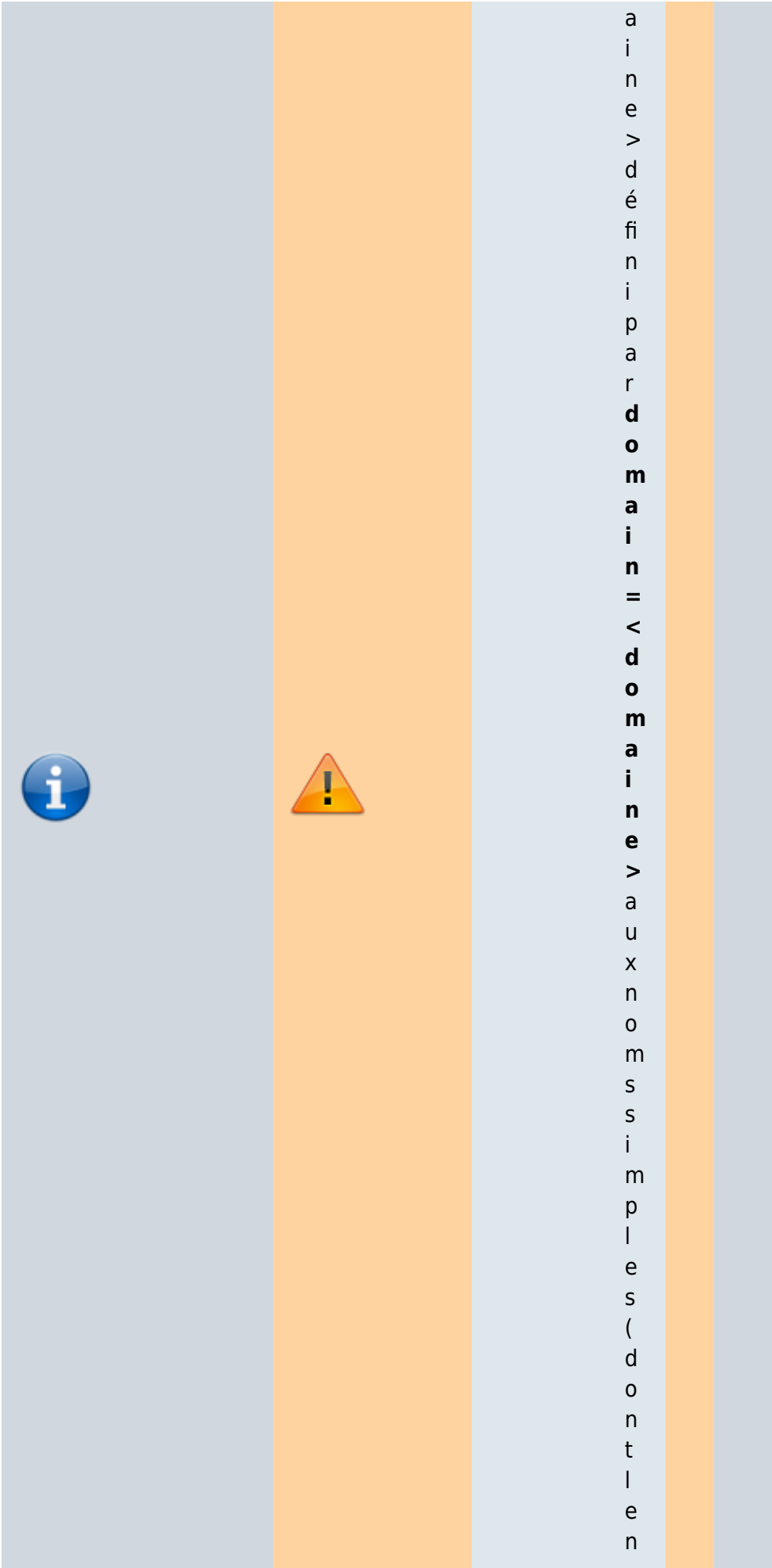




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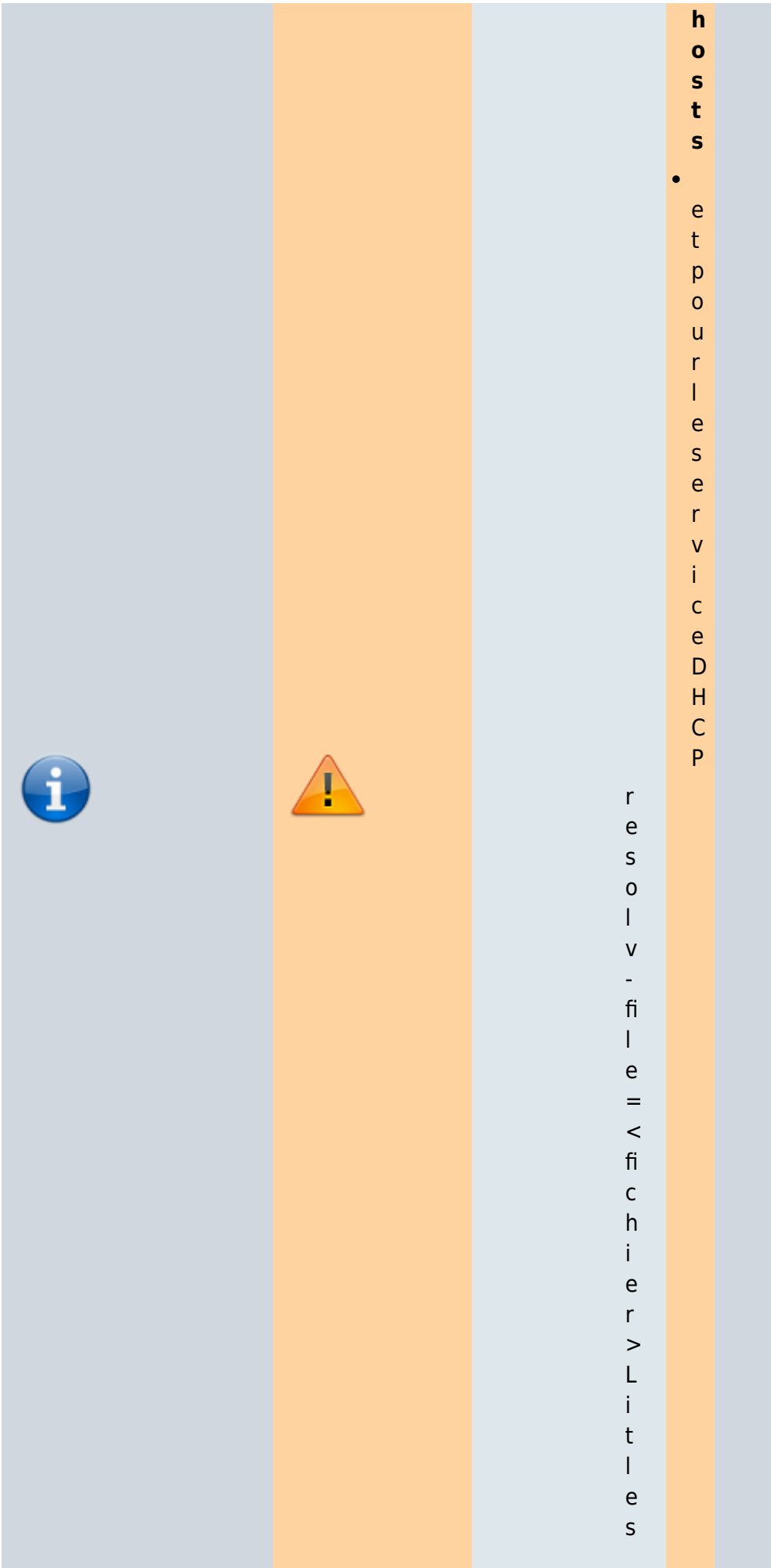
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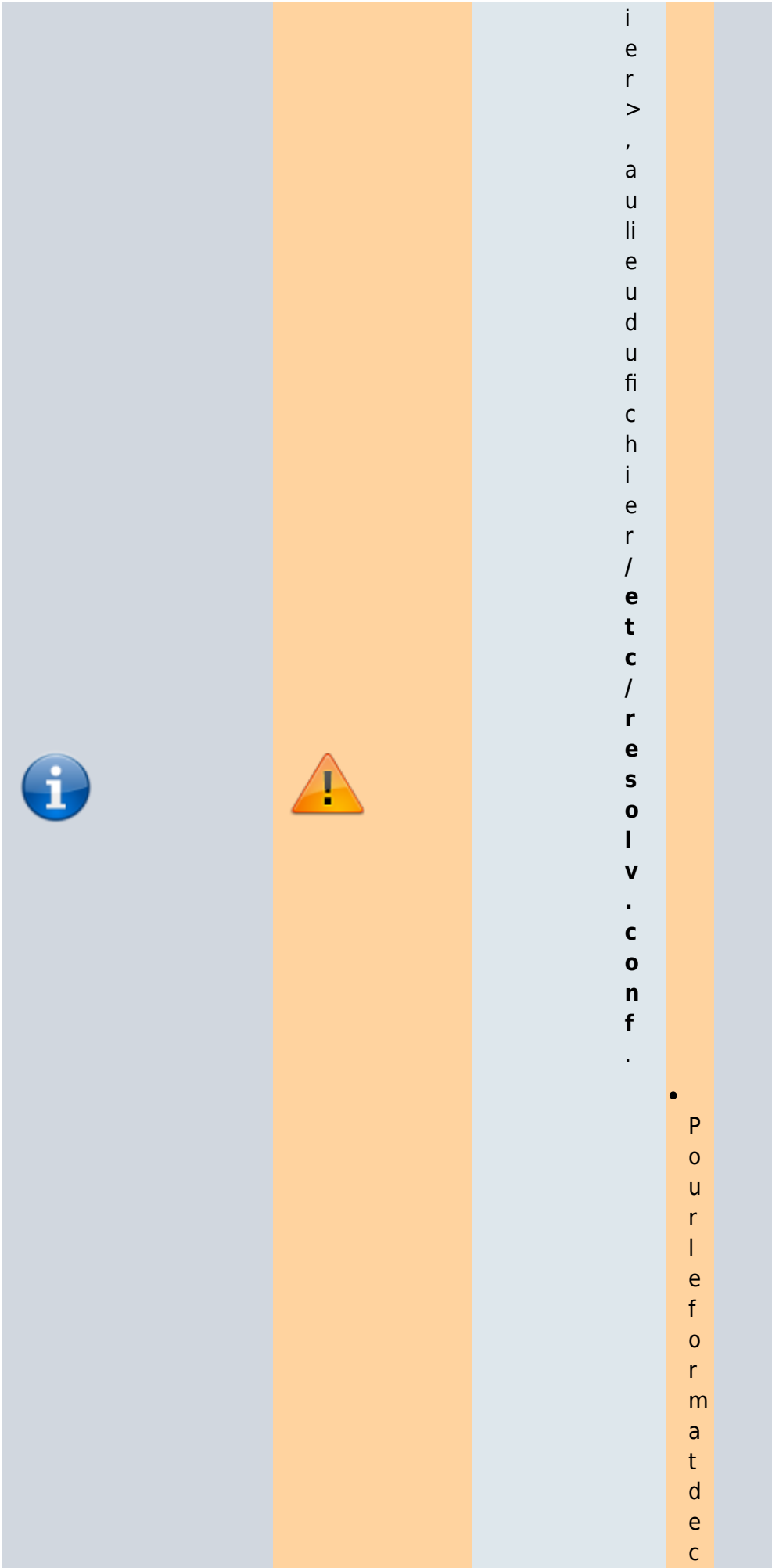


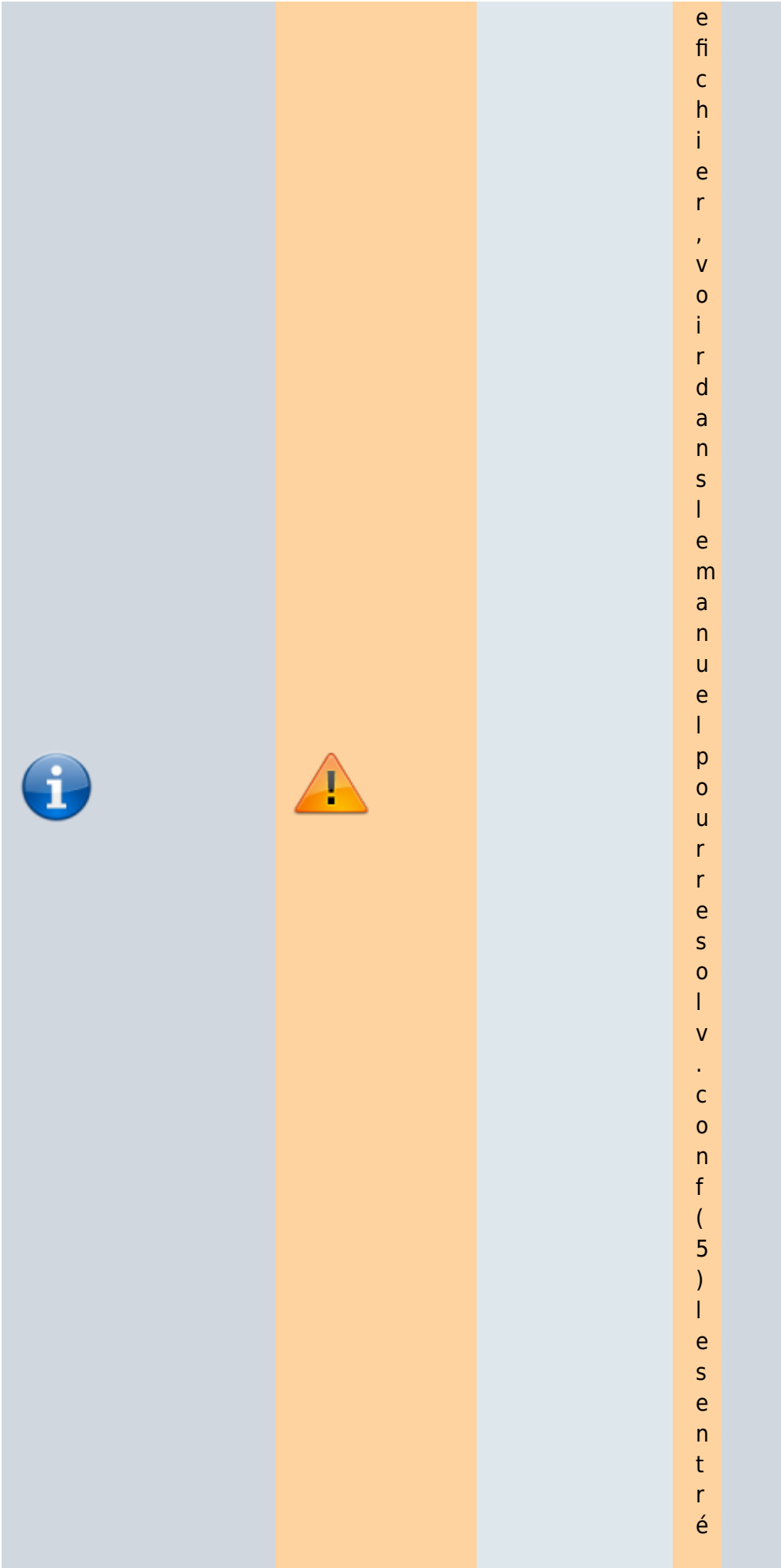
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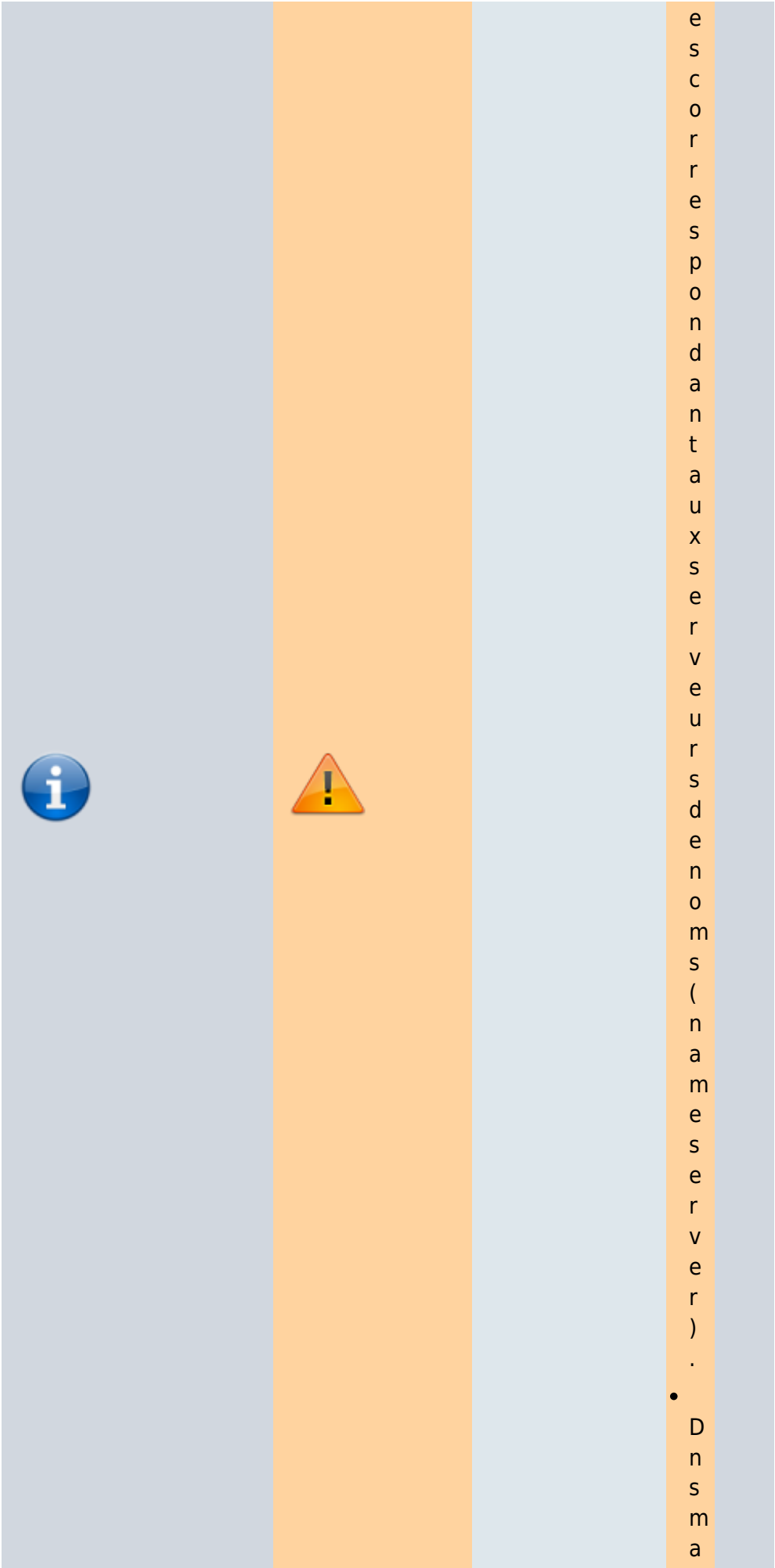


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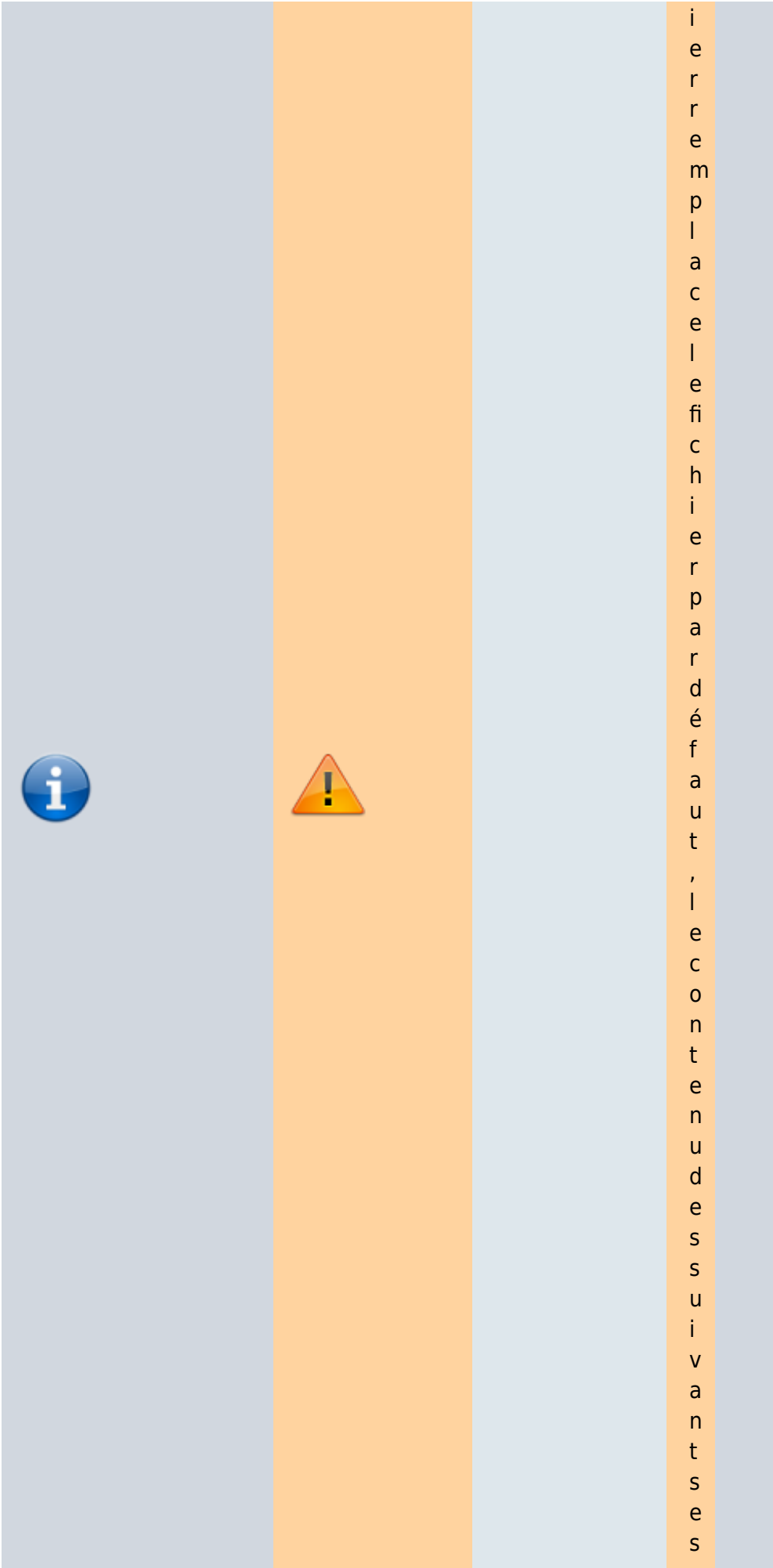




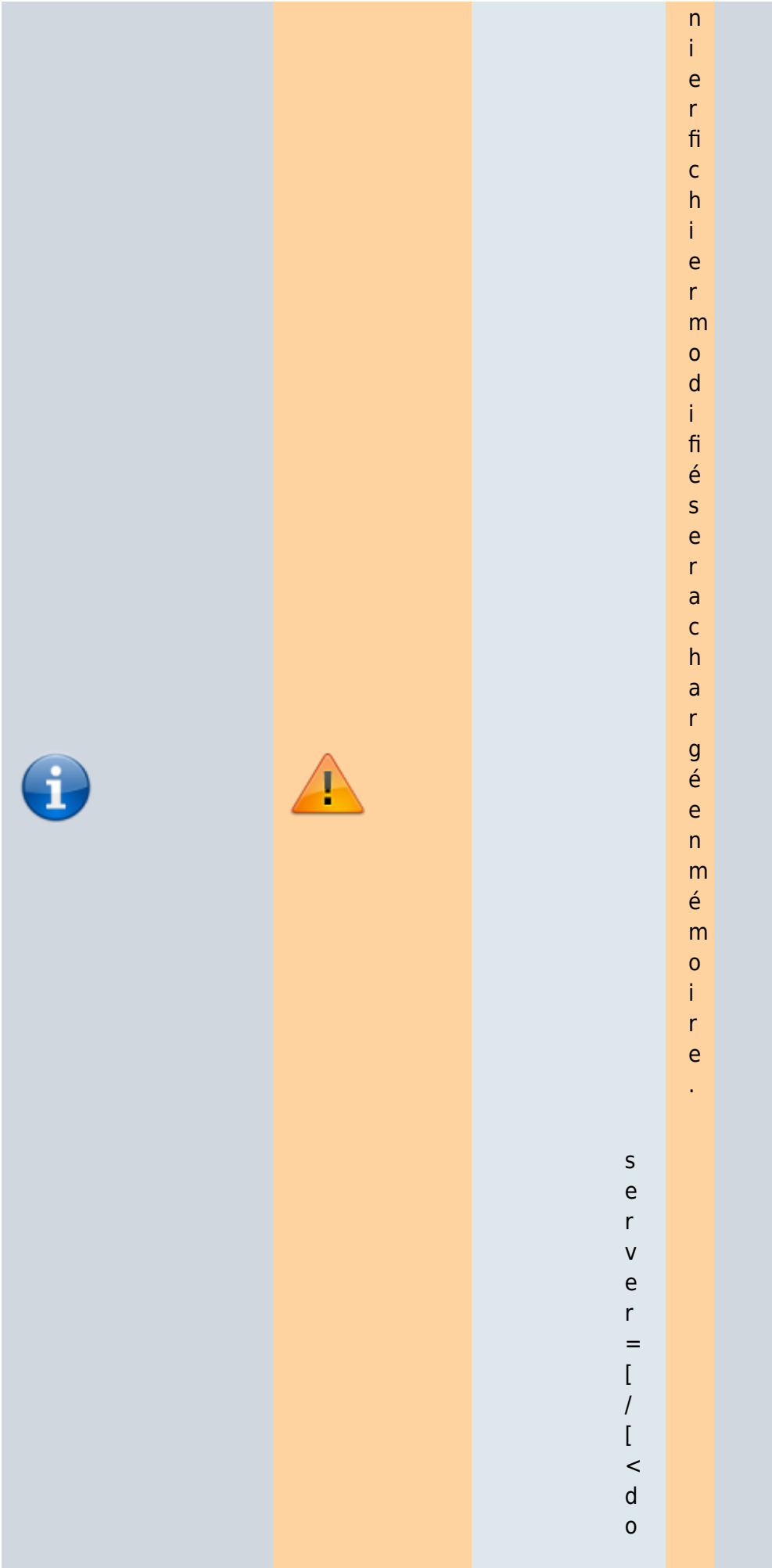
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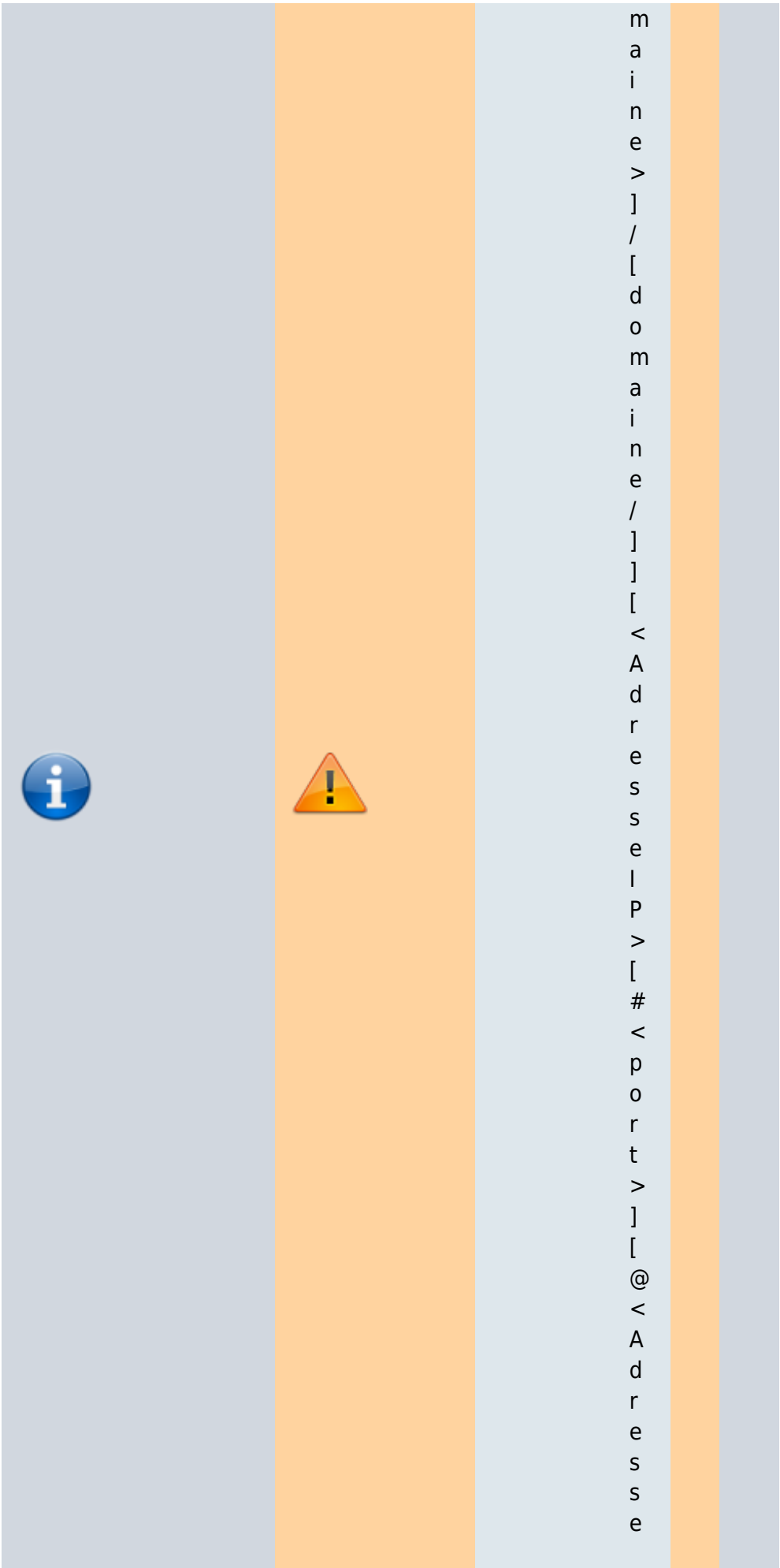


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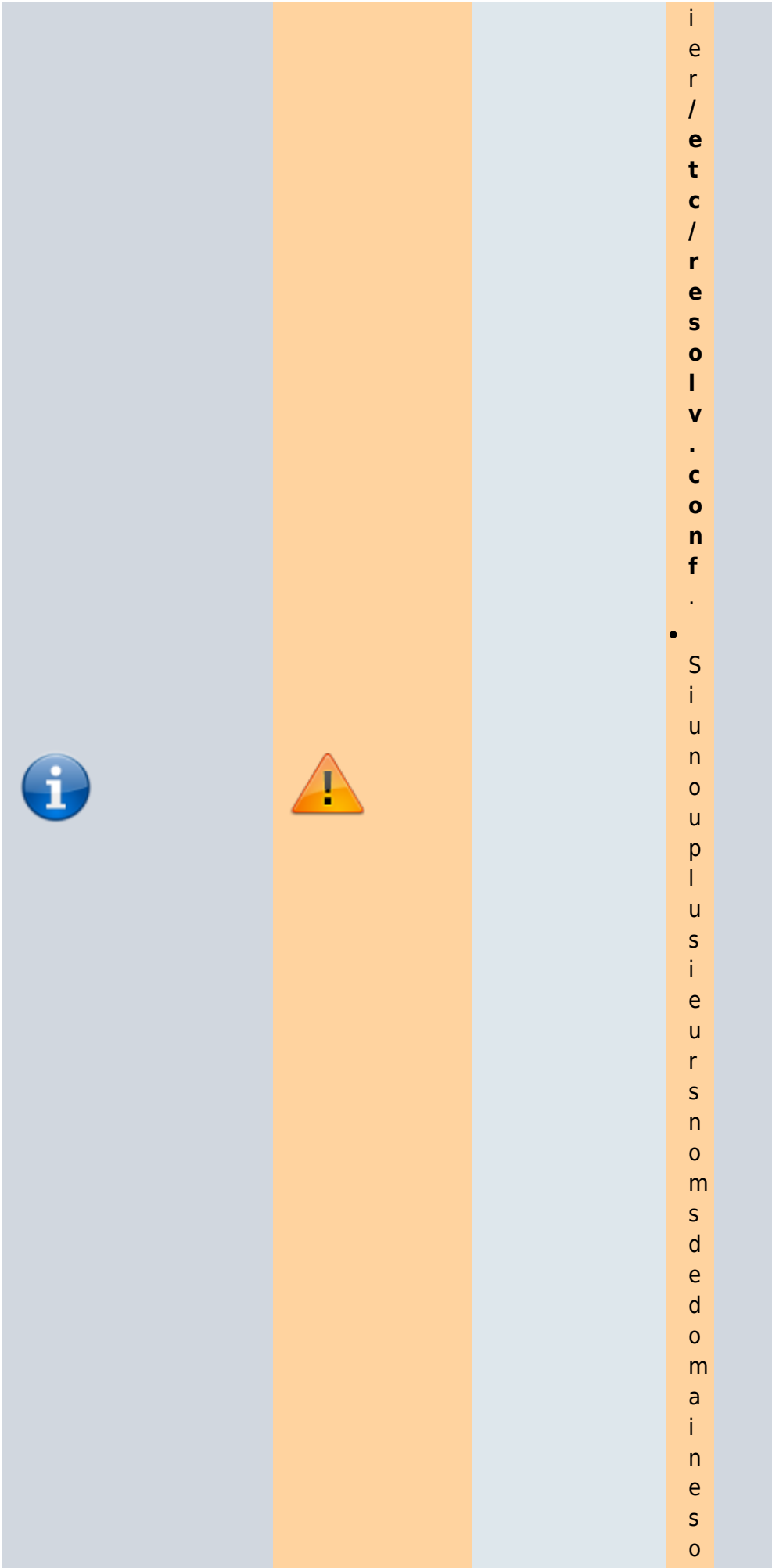




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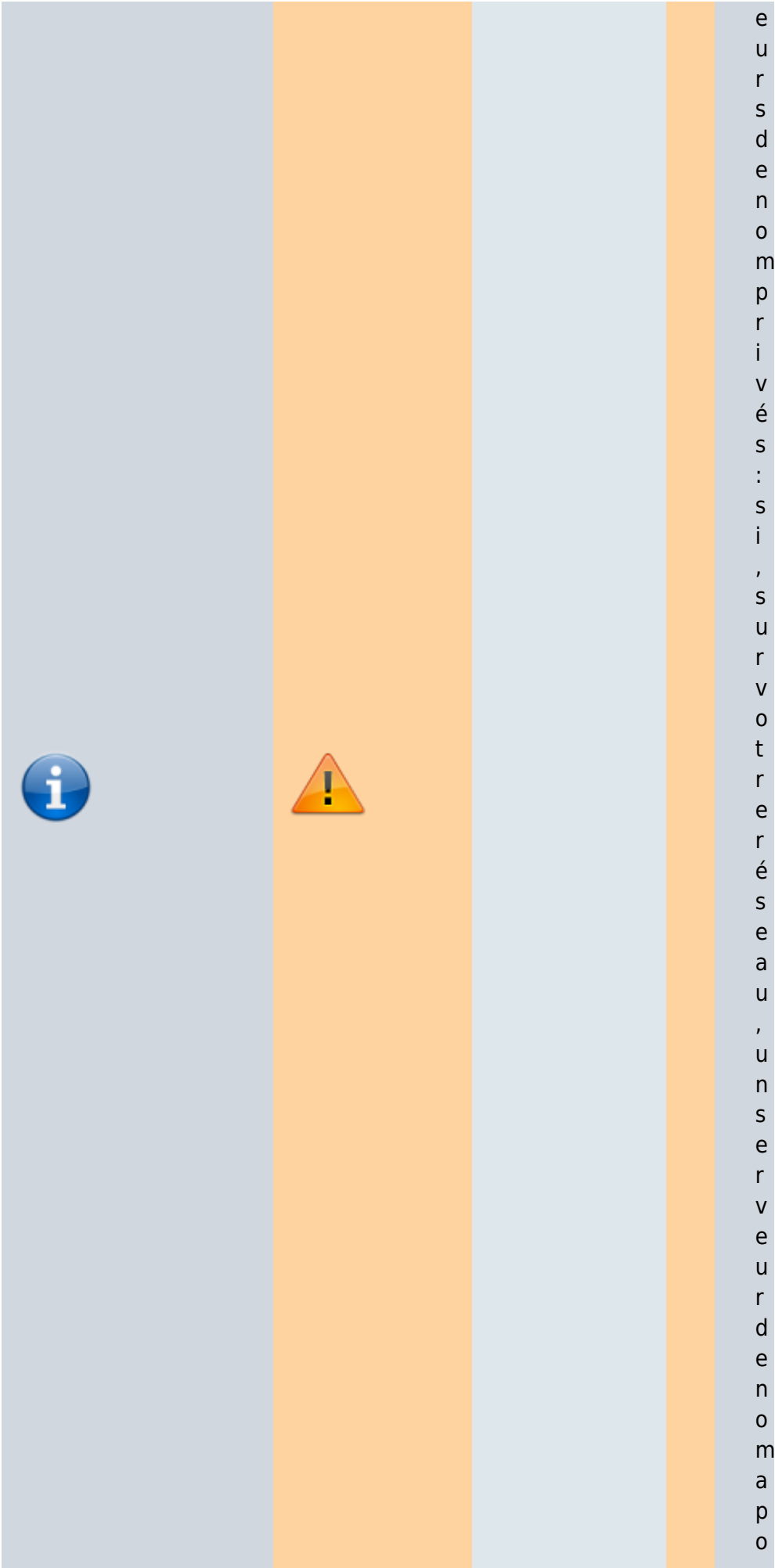


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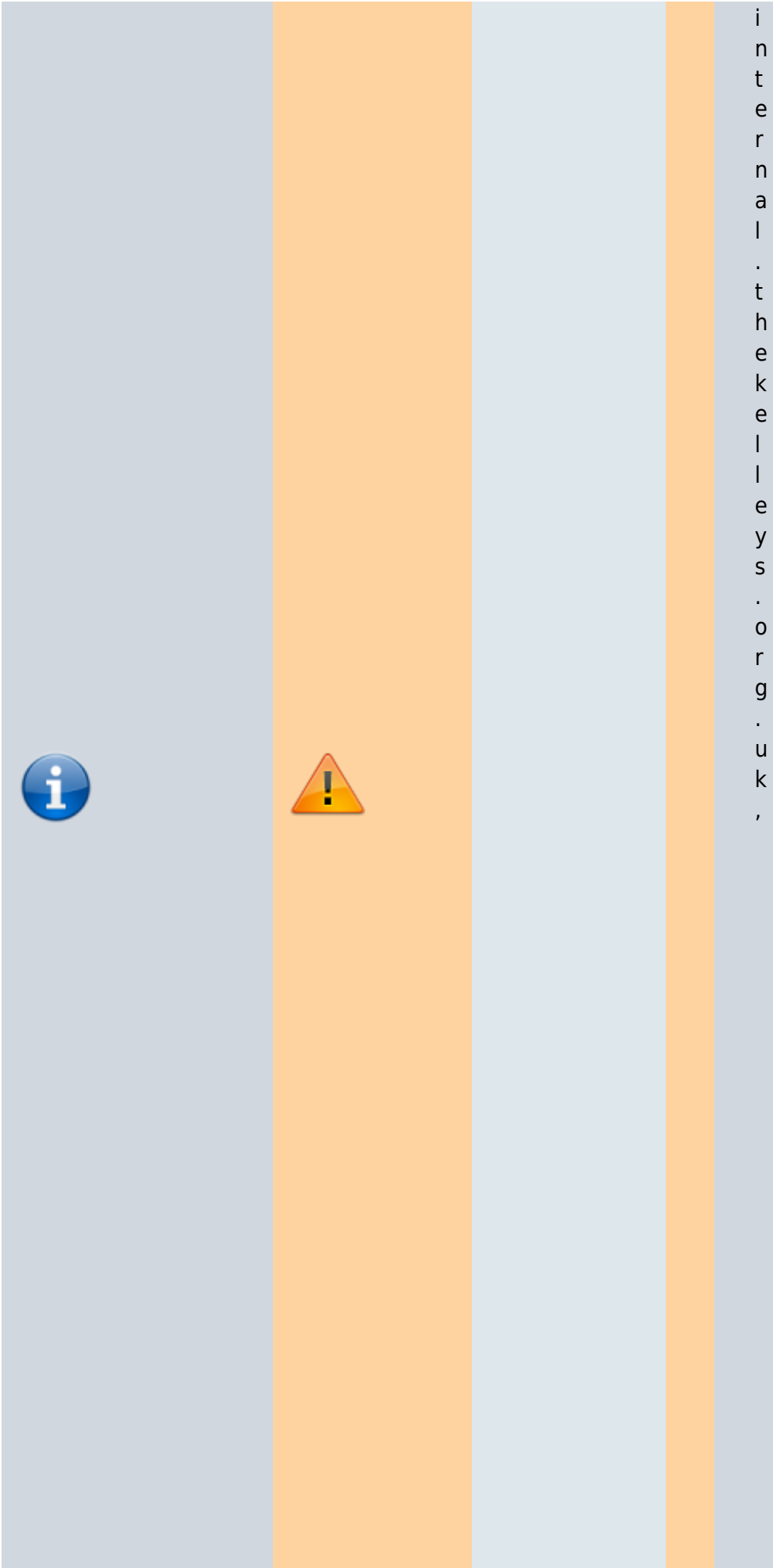
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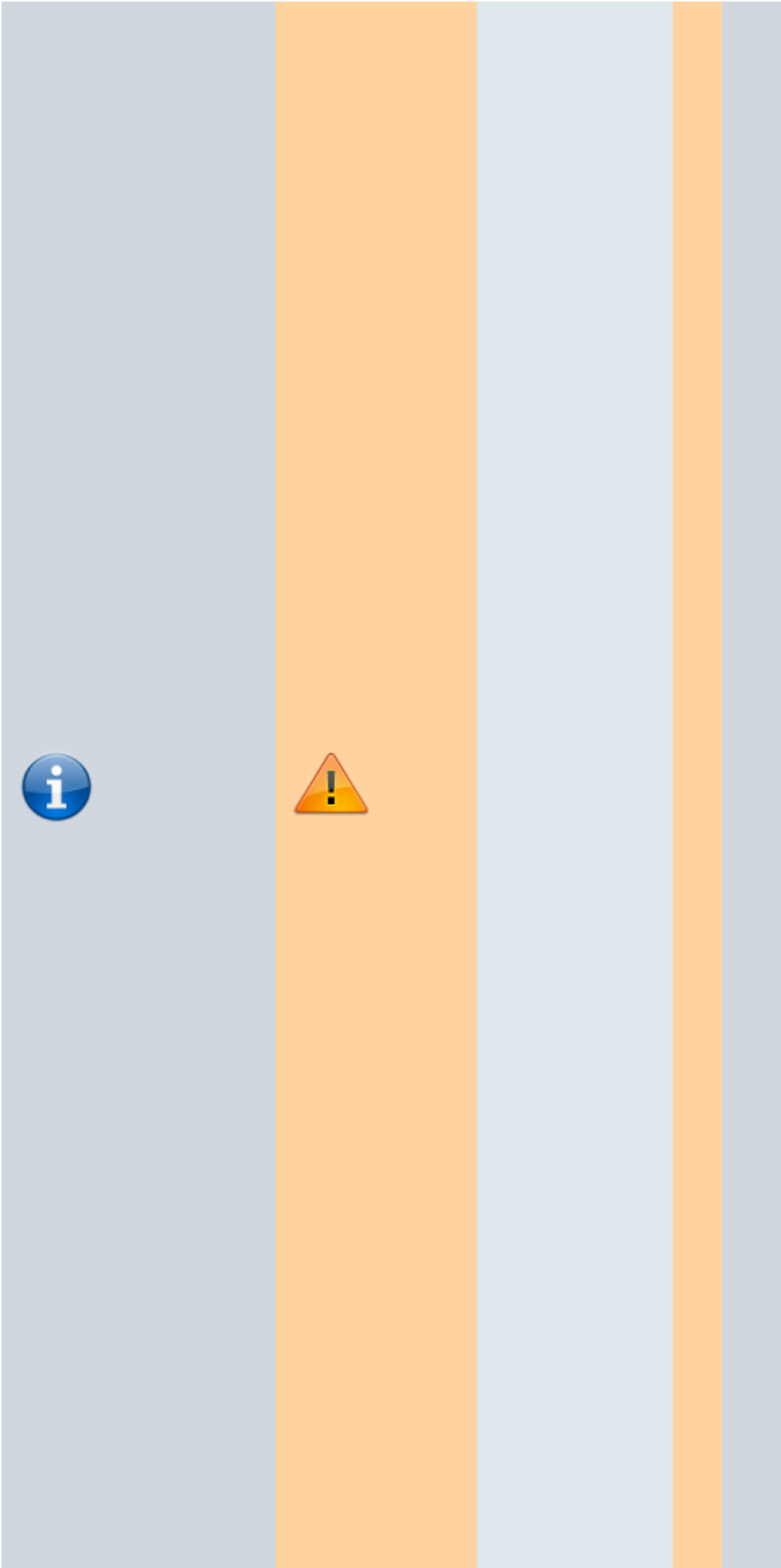
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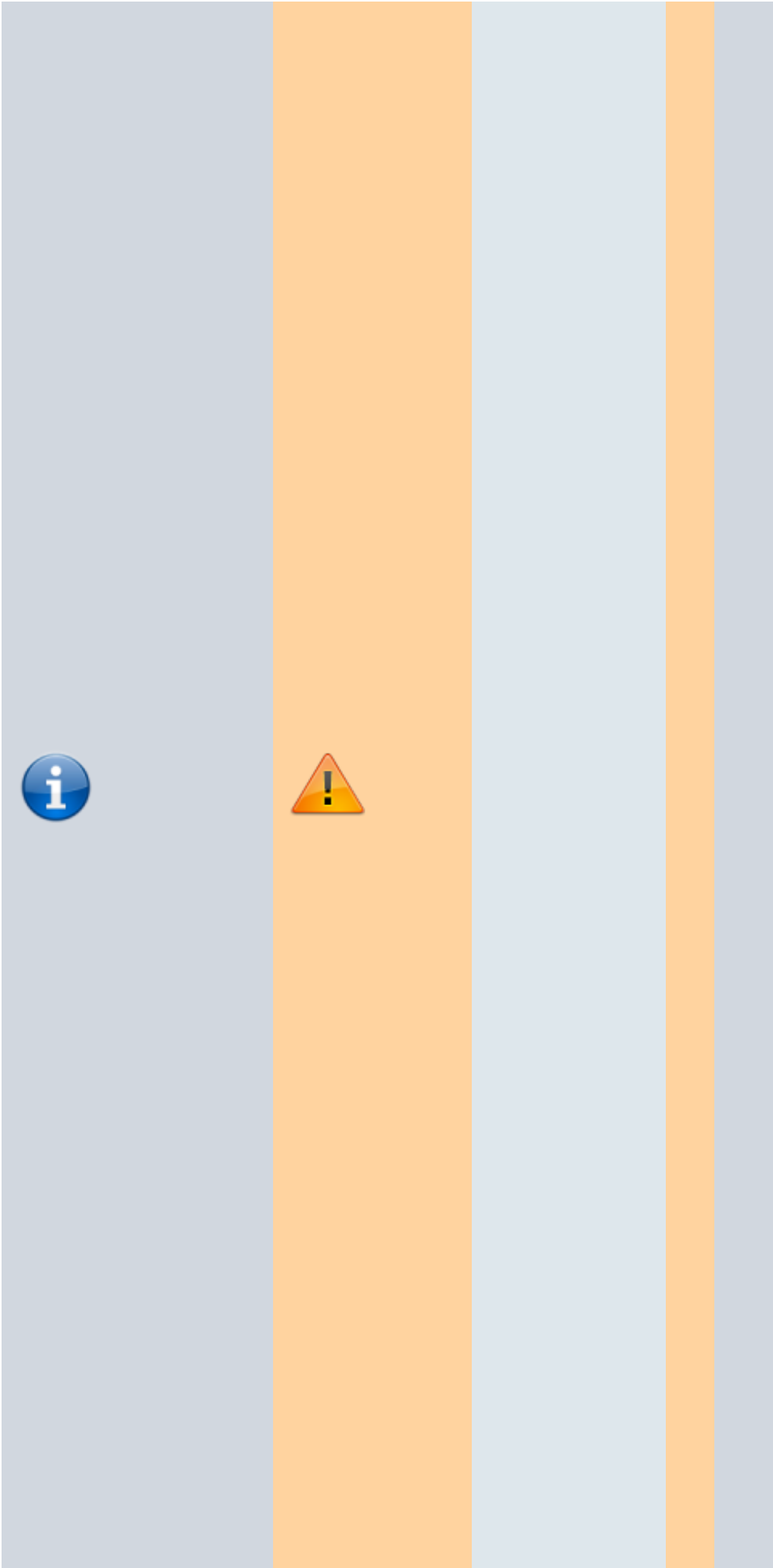


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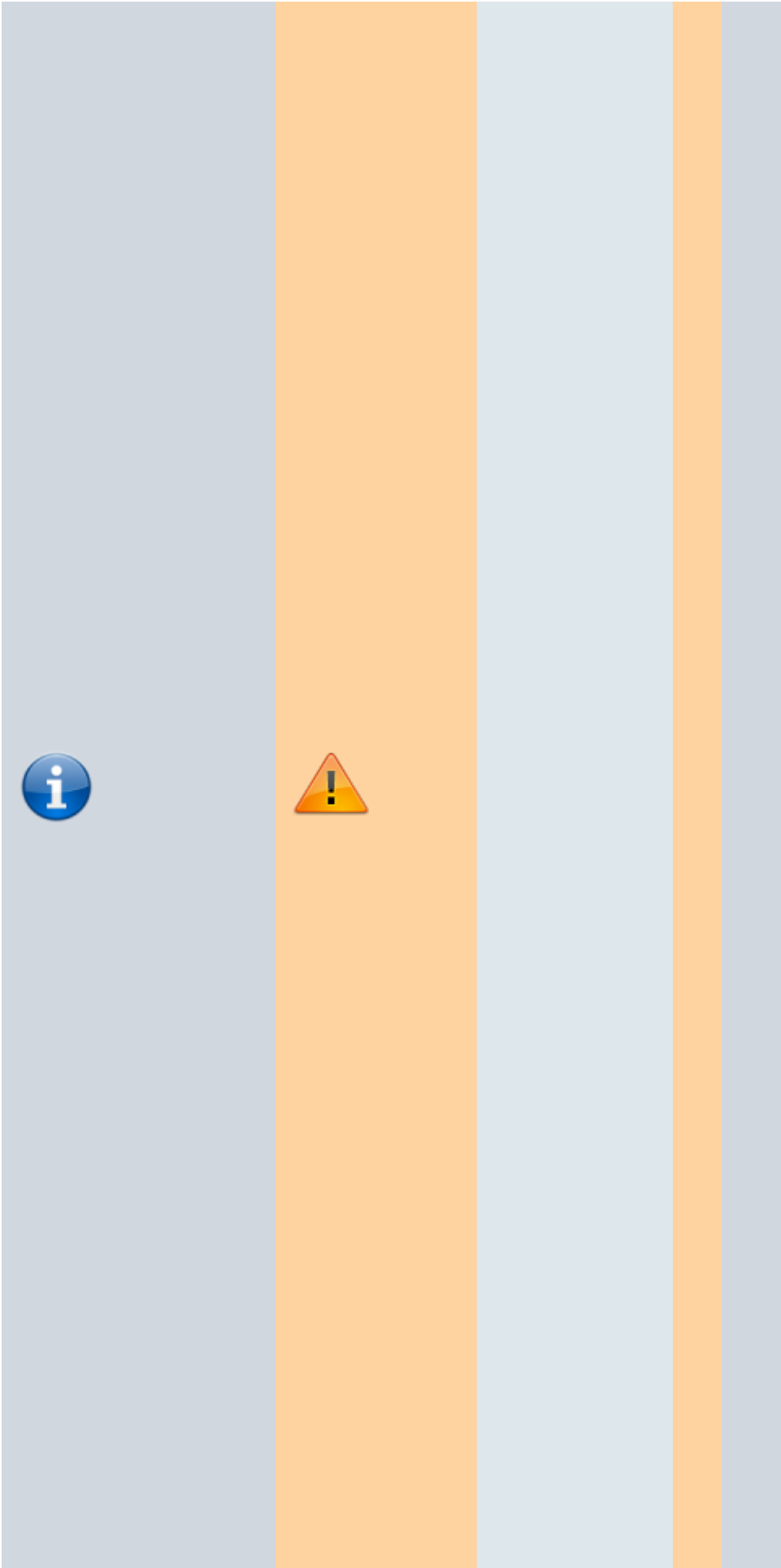




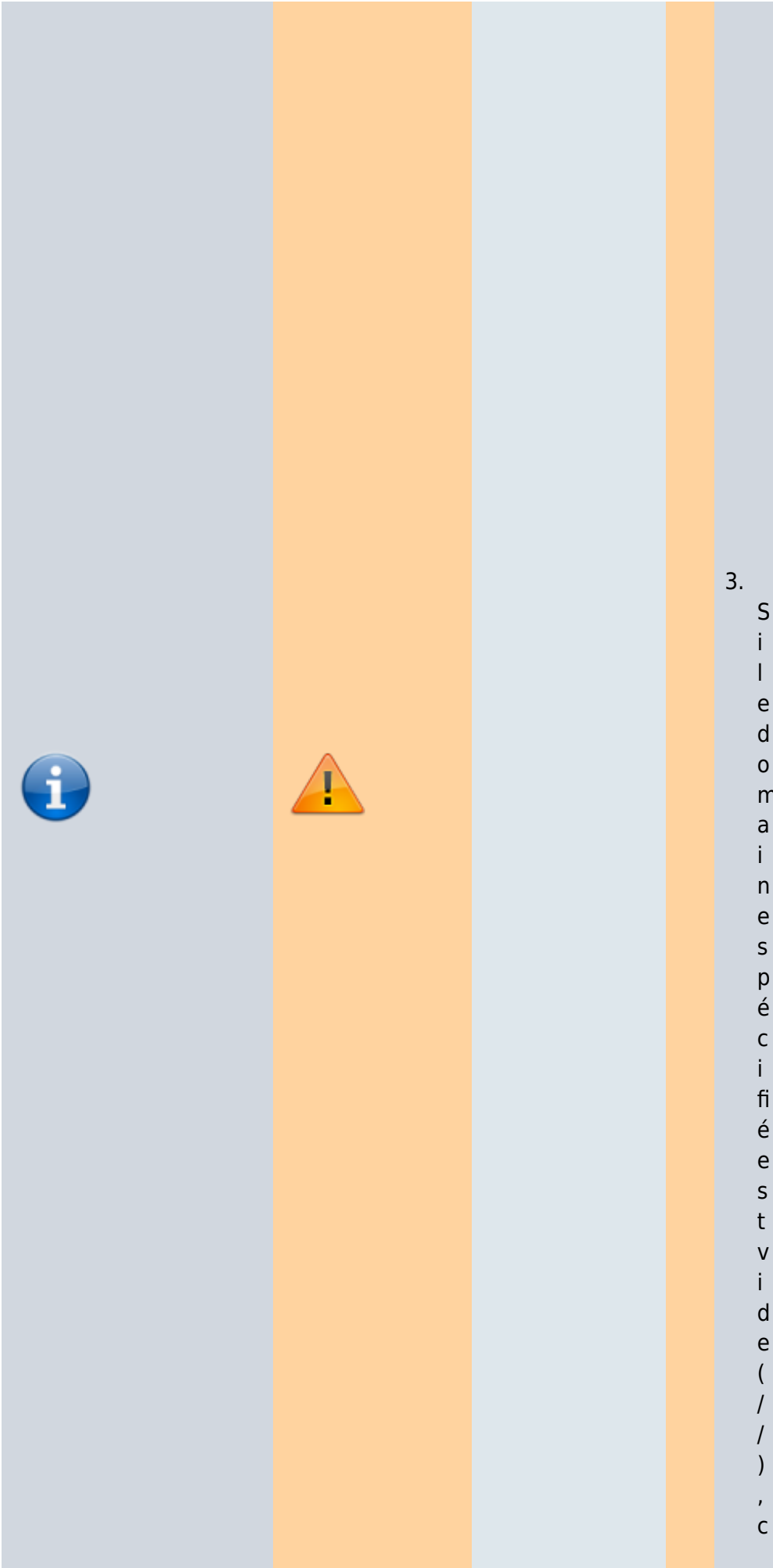
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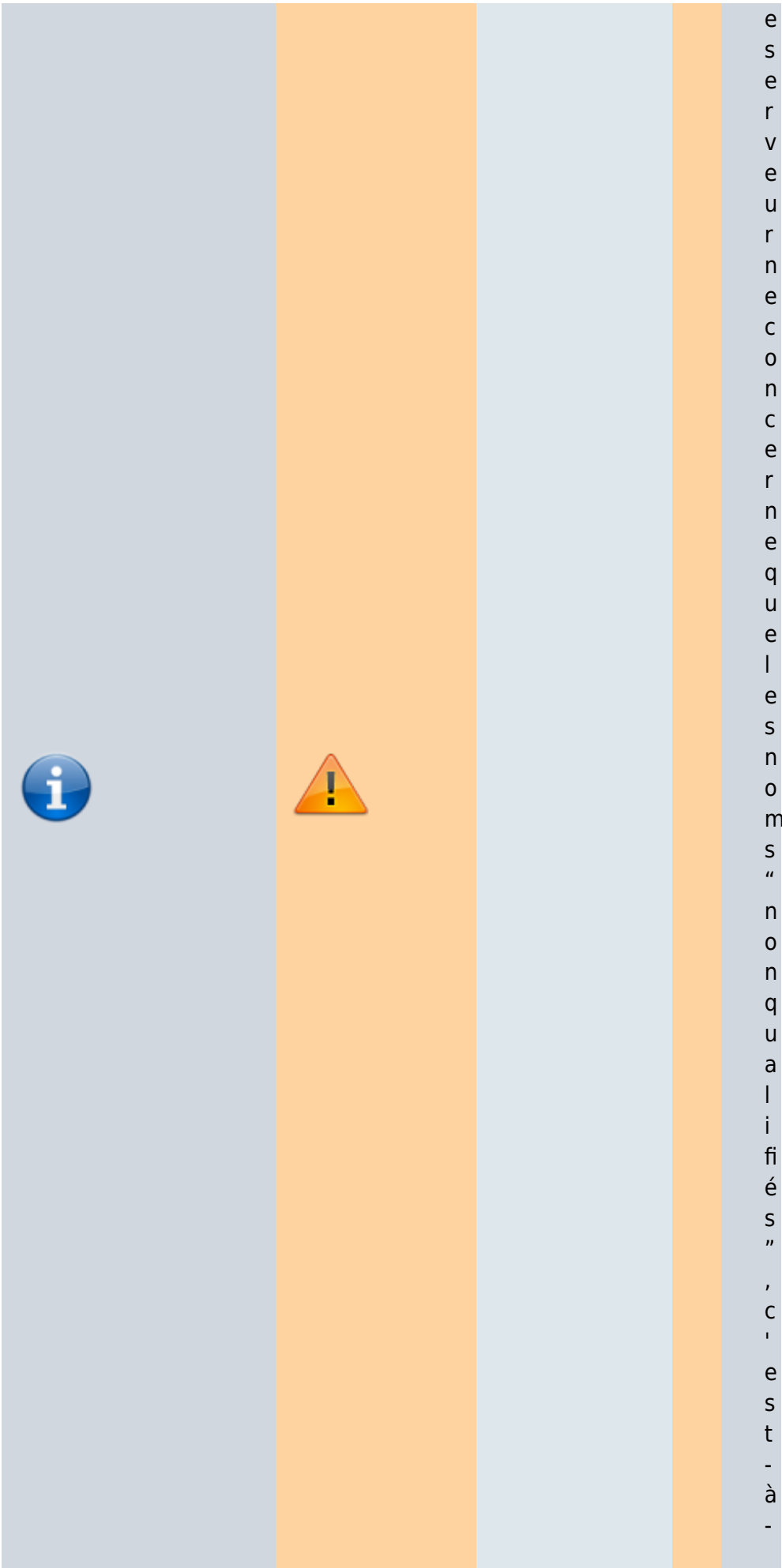


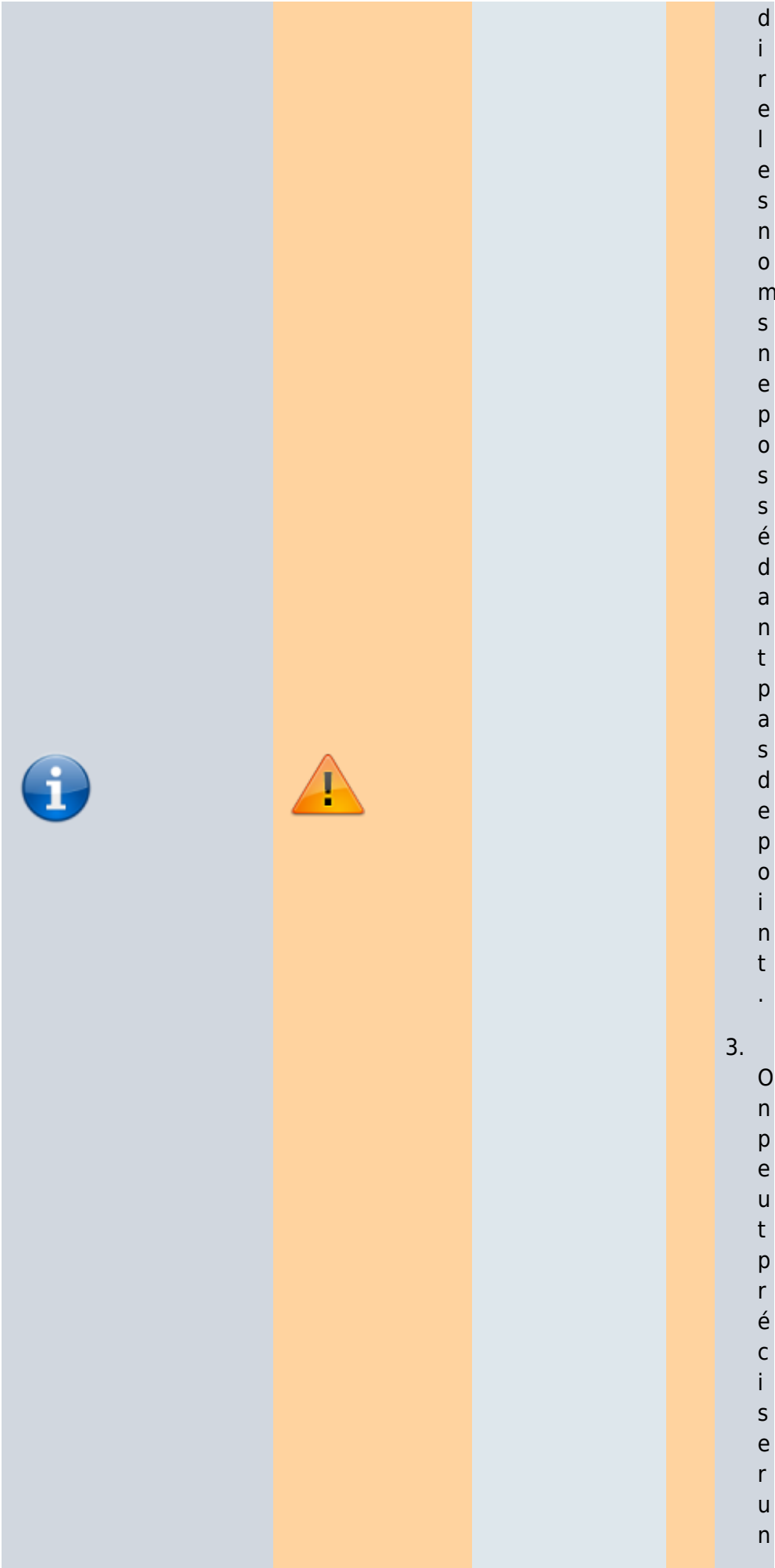
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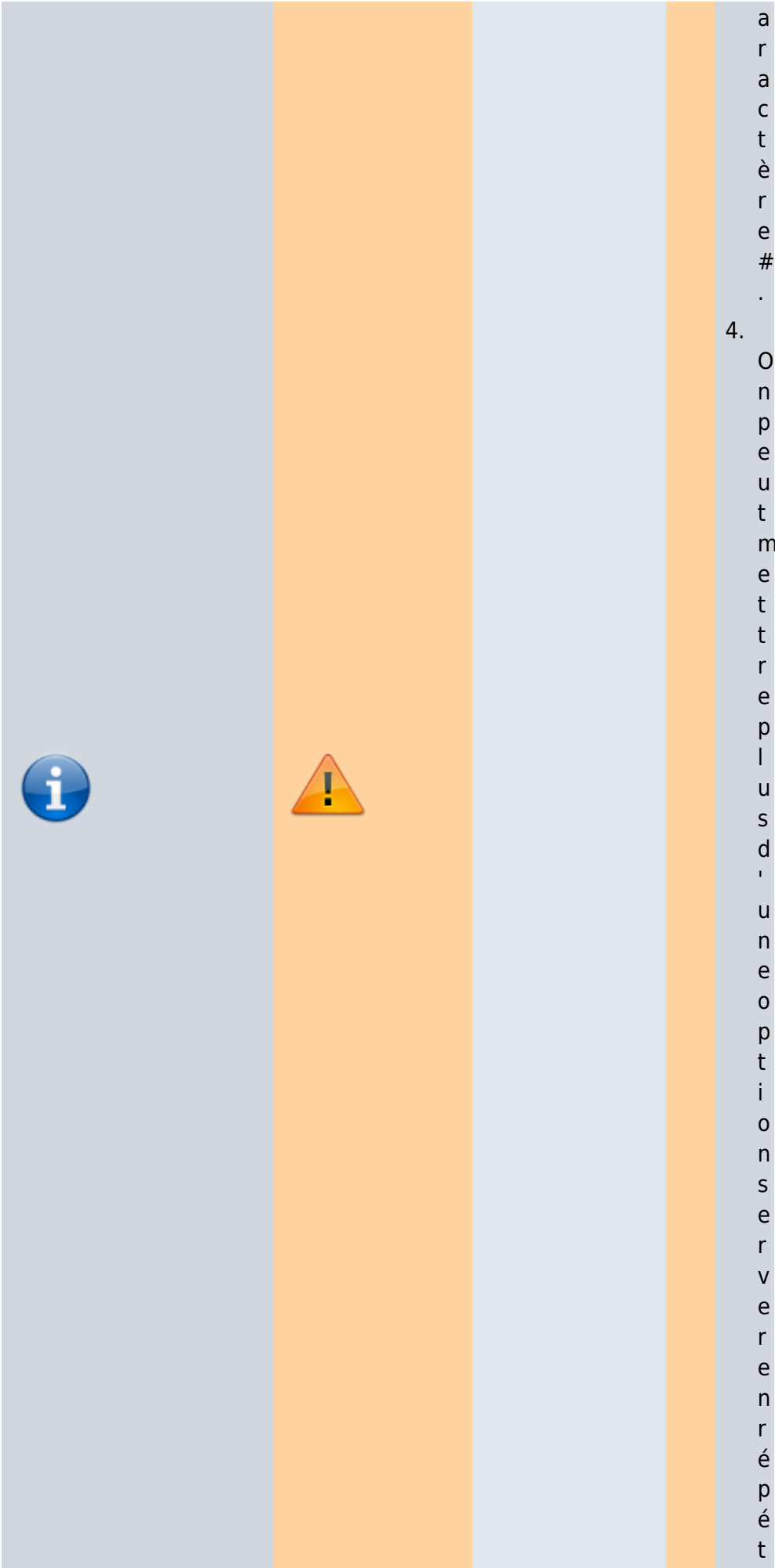
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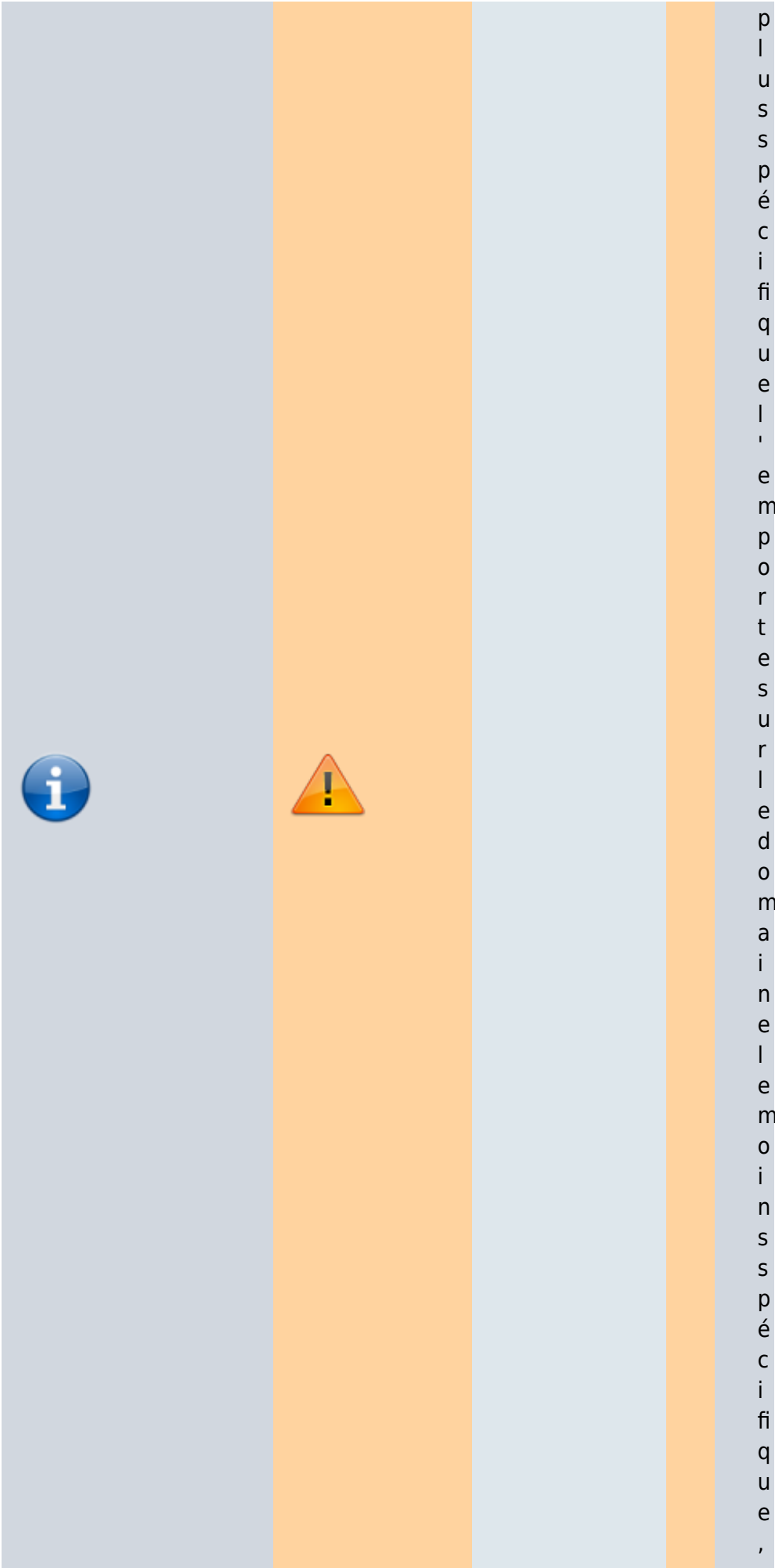


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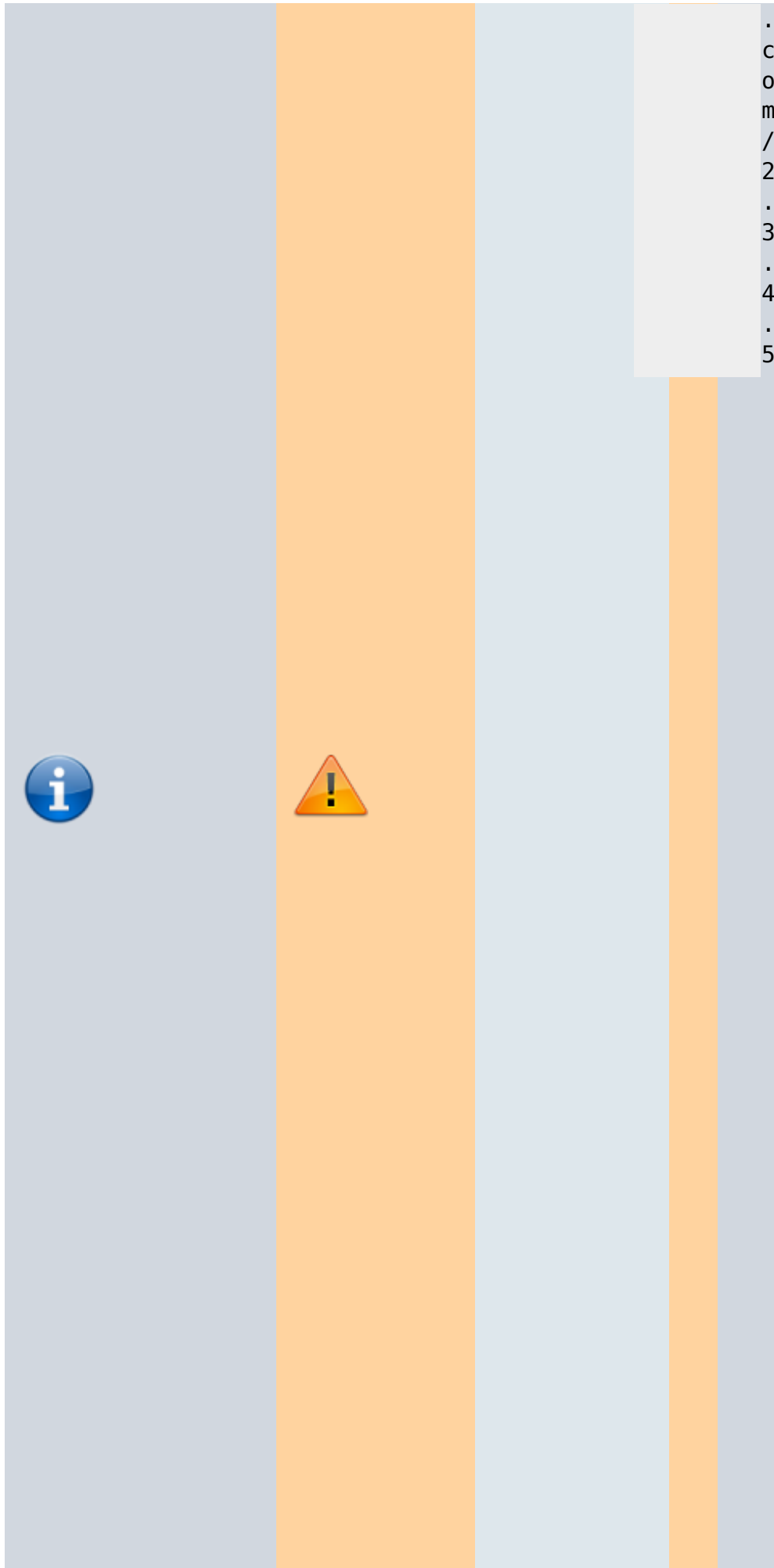
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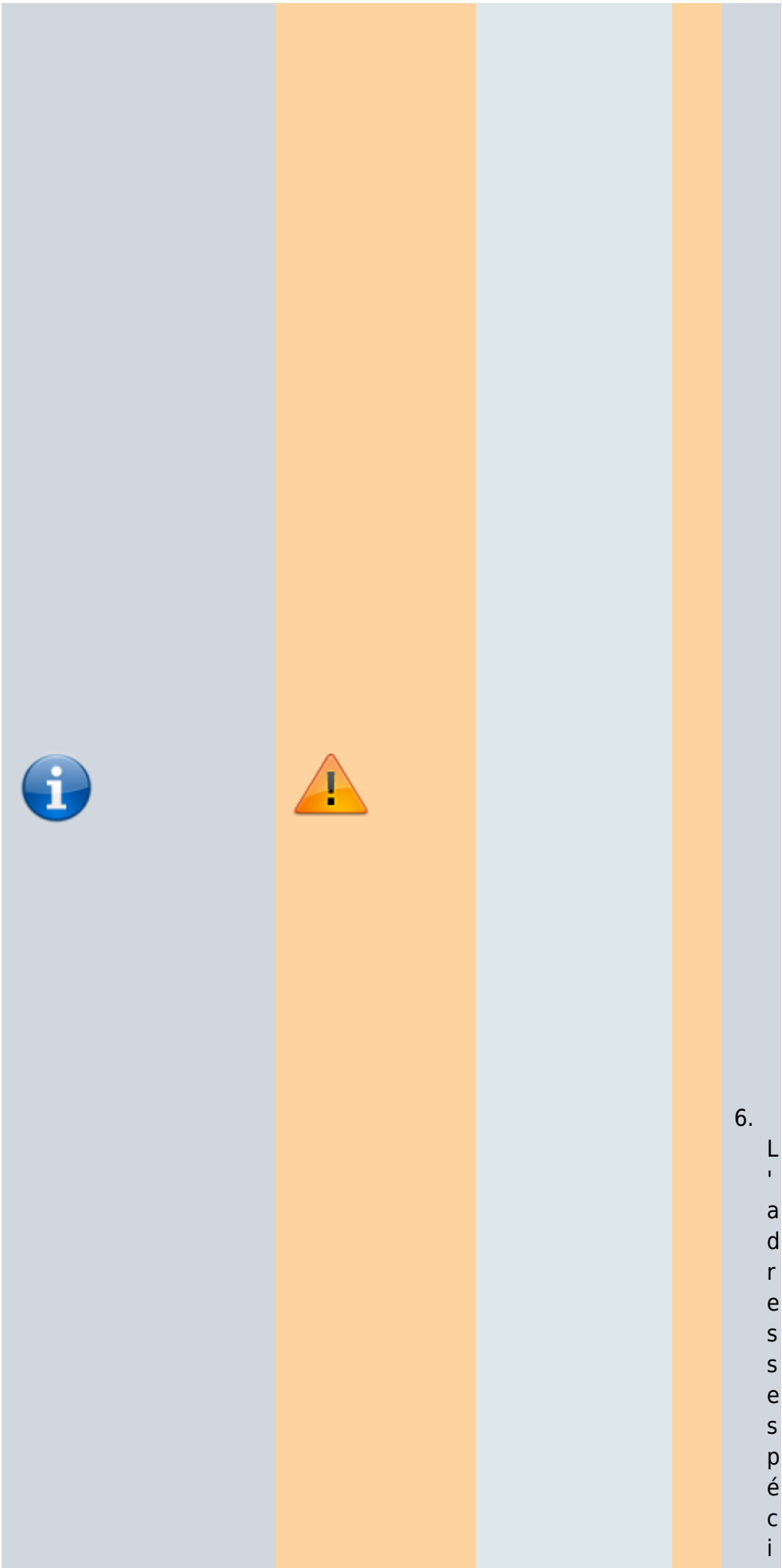


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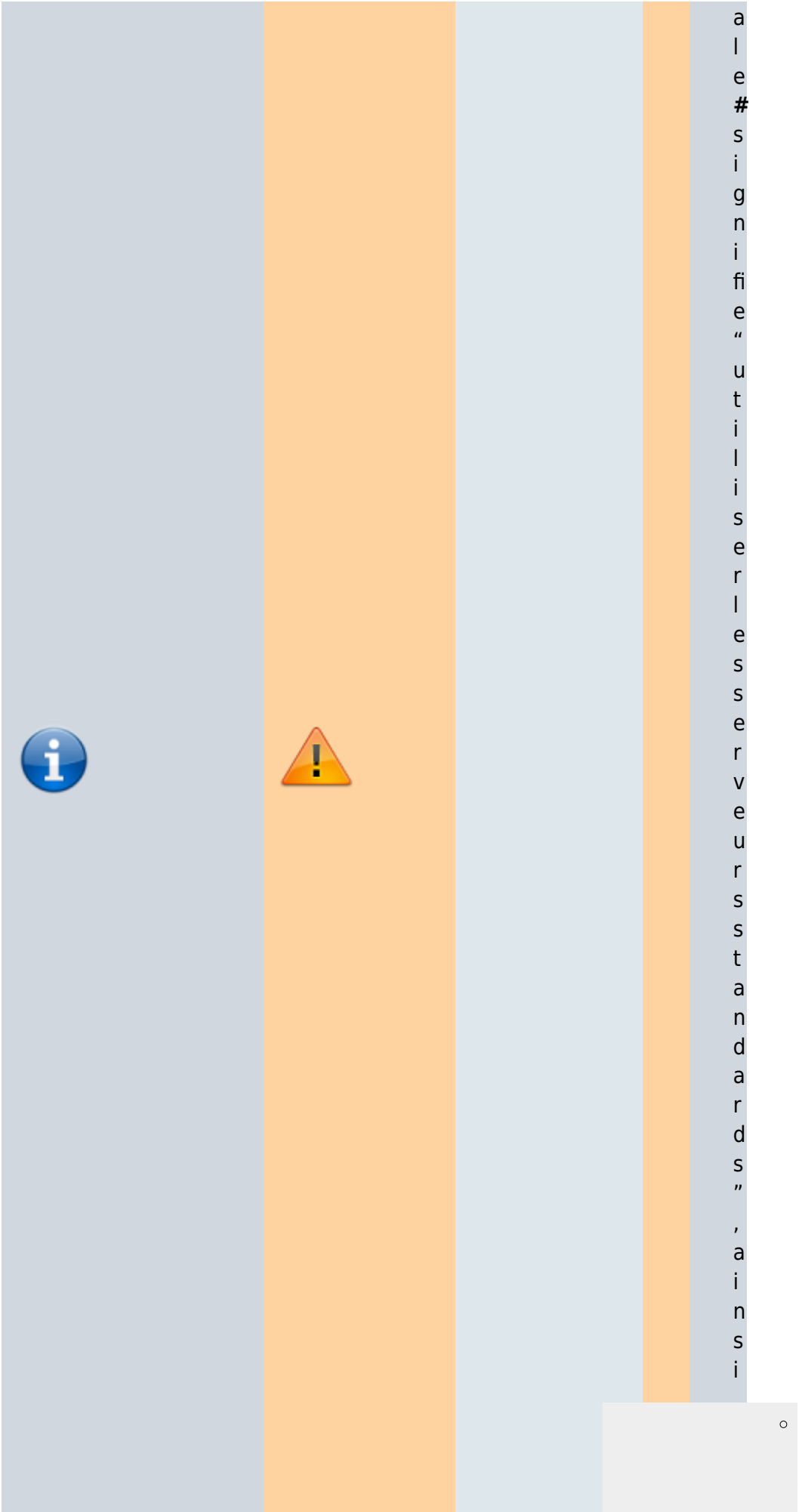
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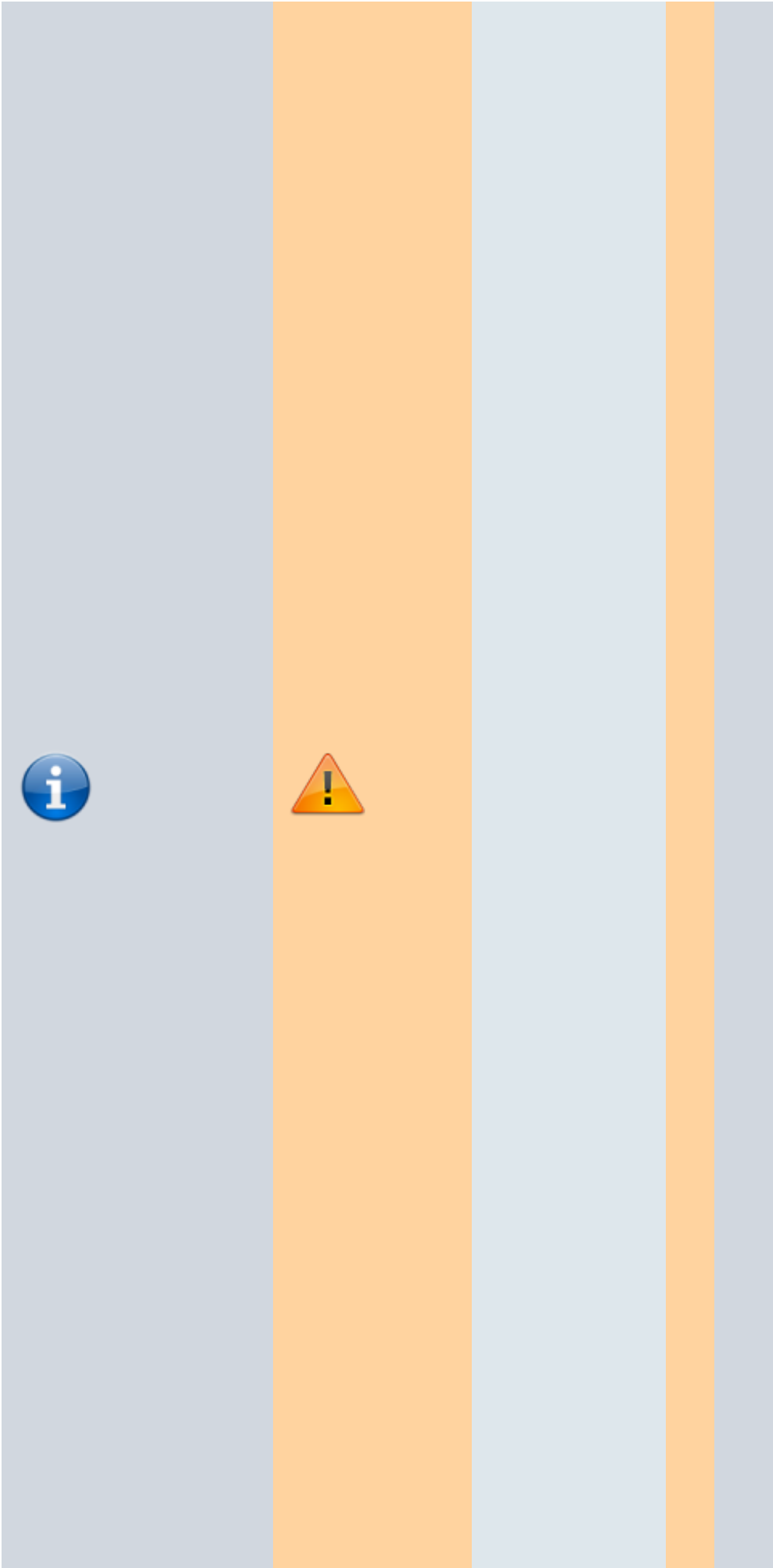
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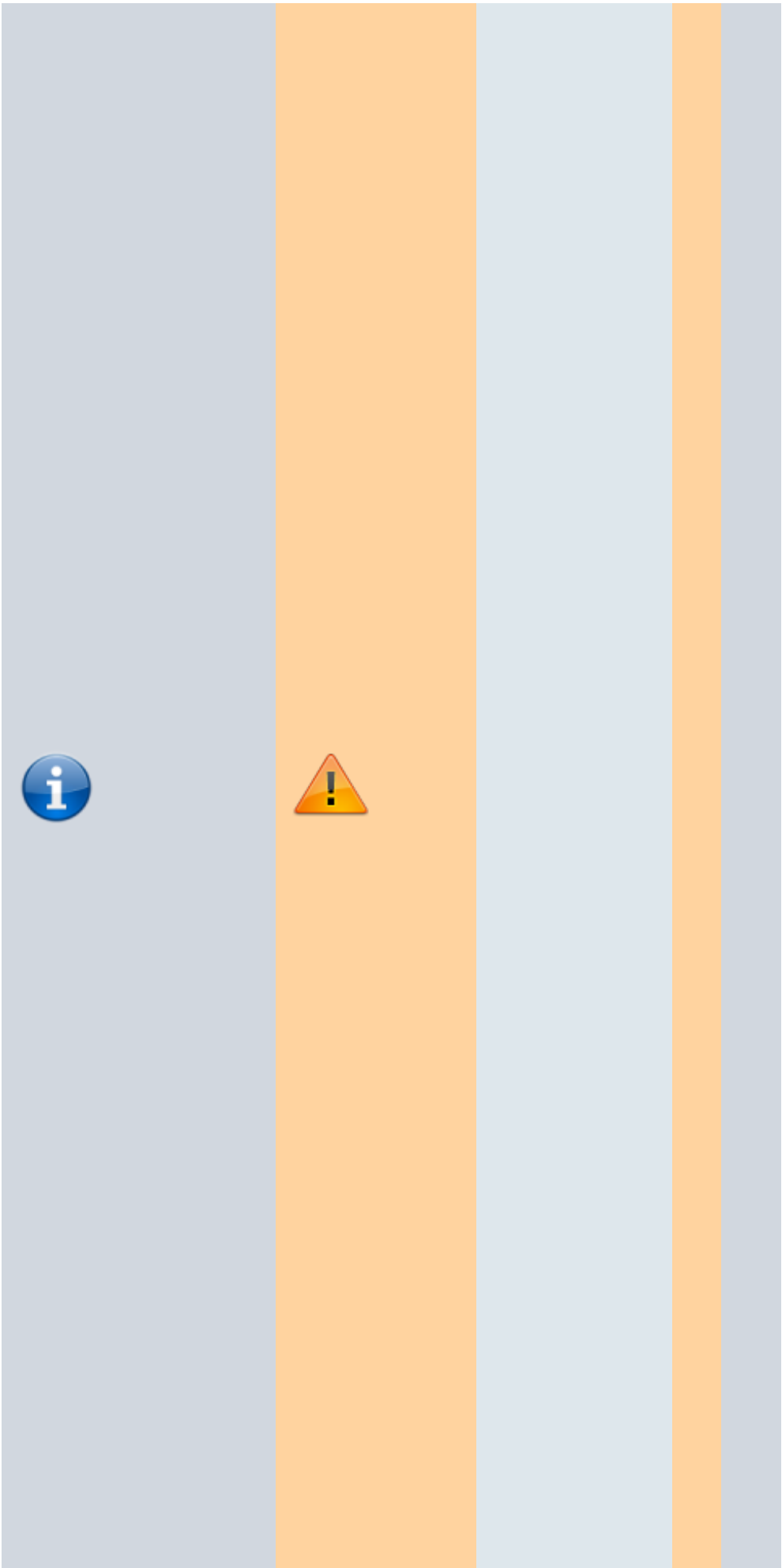


The graphic consists of three vertical panels. The left panel is blue and contains a blue circular icon with a white lowercase 'i'. The middle panel is orange and contains a yellow triangular warning icon with a black exclamation mark. The right panel is light gray and contains a vertical URL: `r
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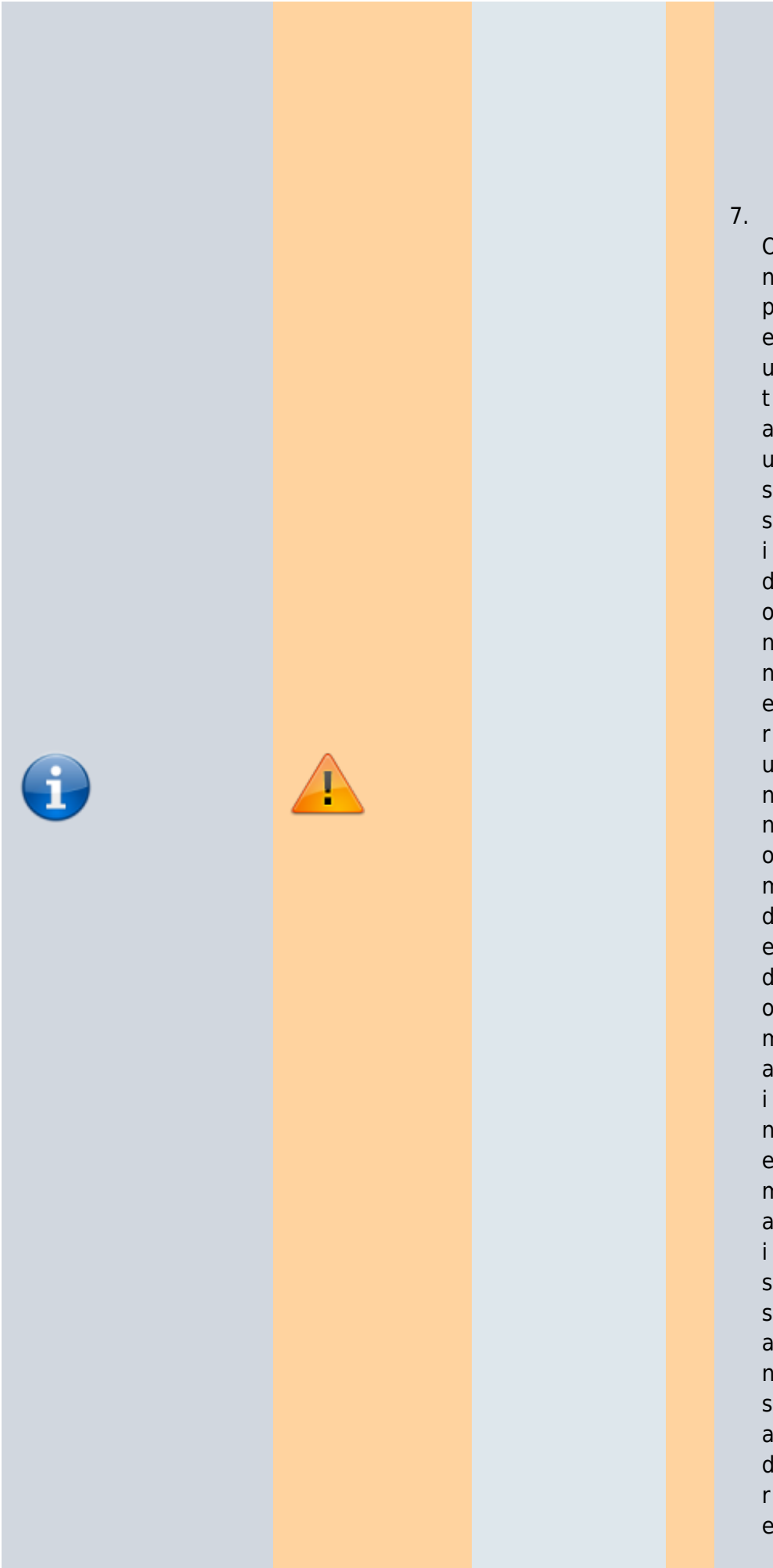
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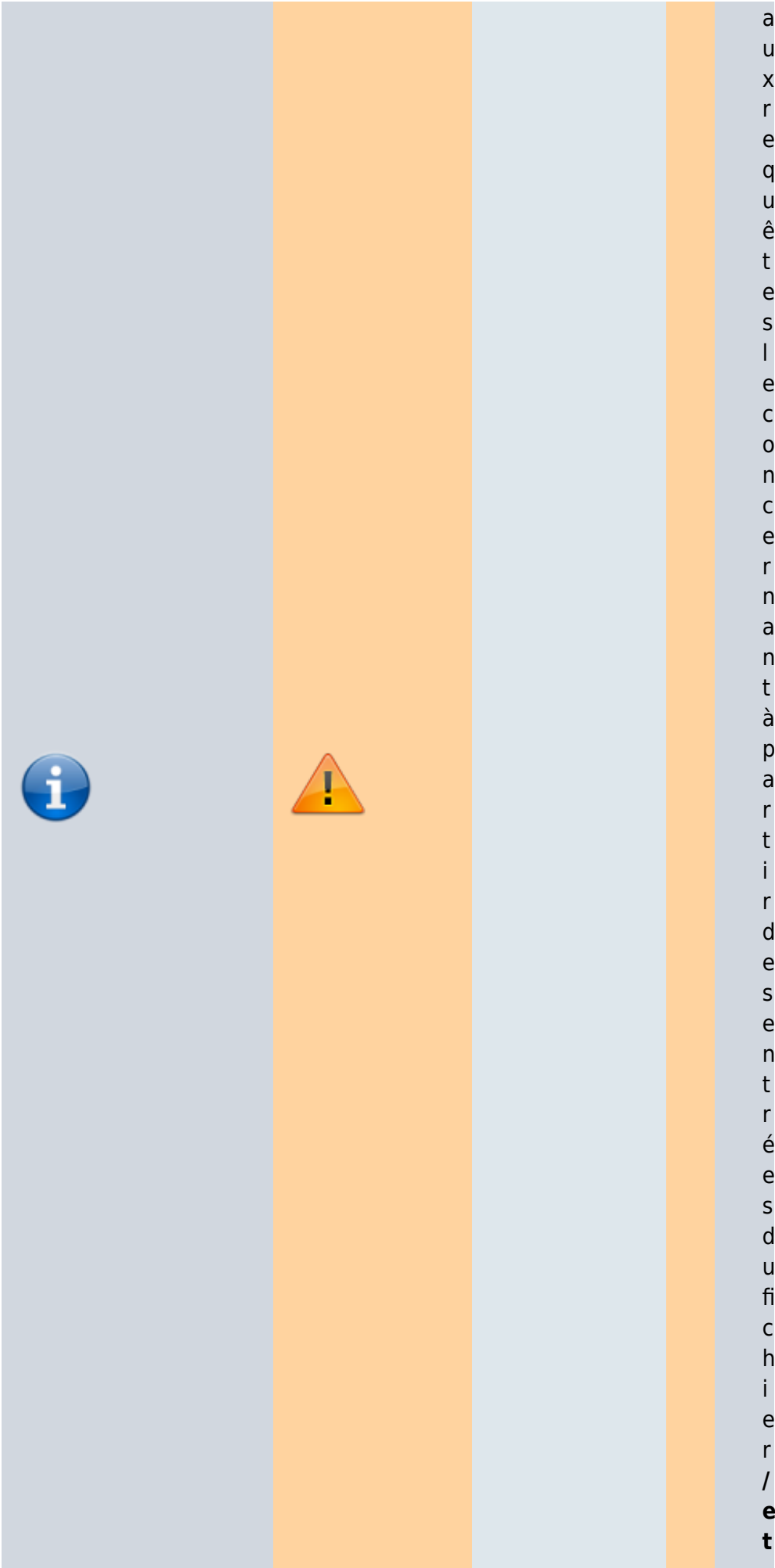
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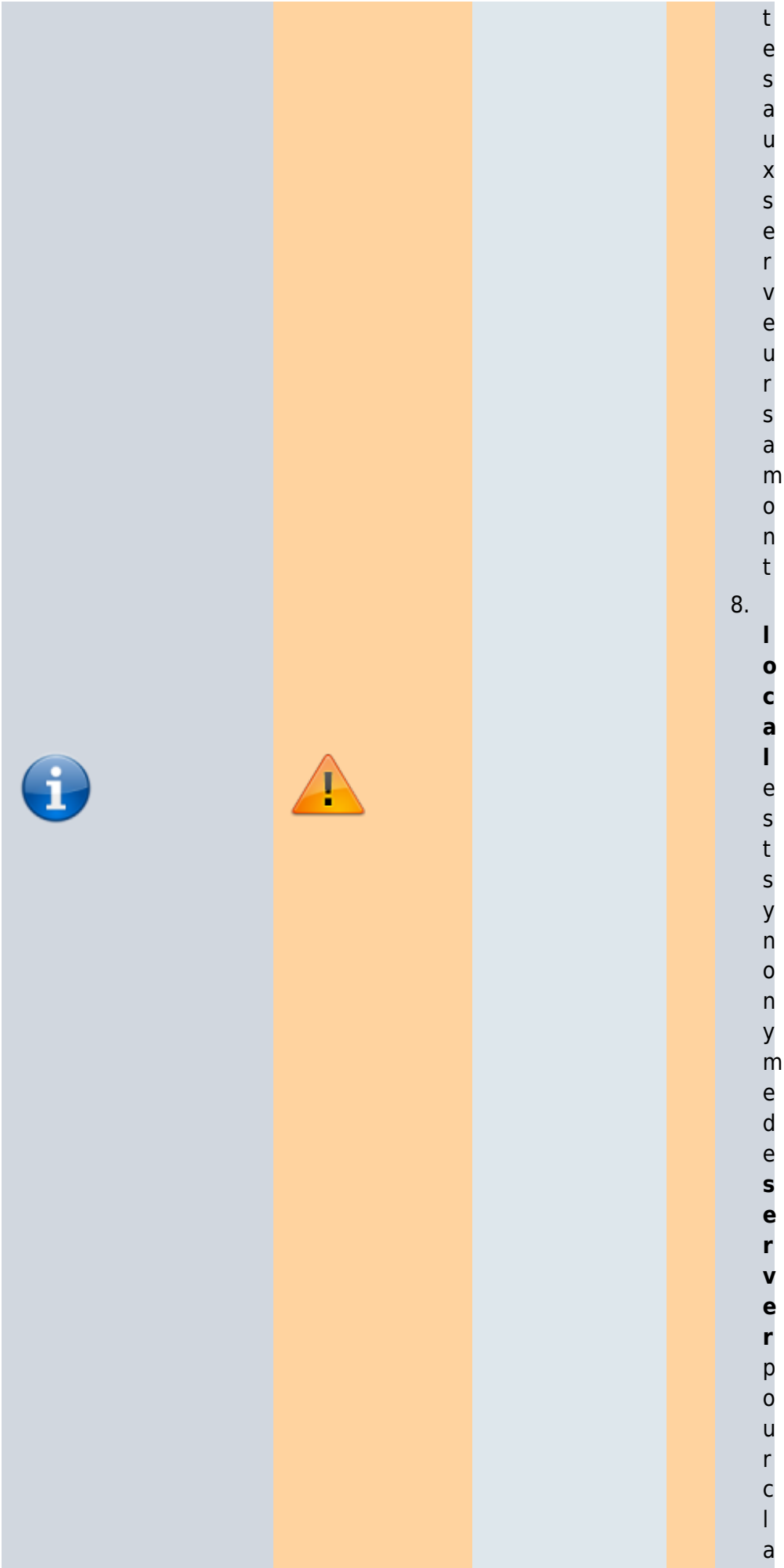
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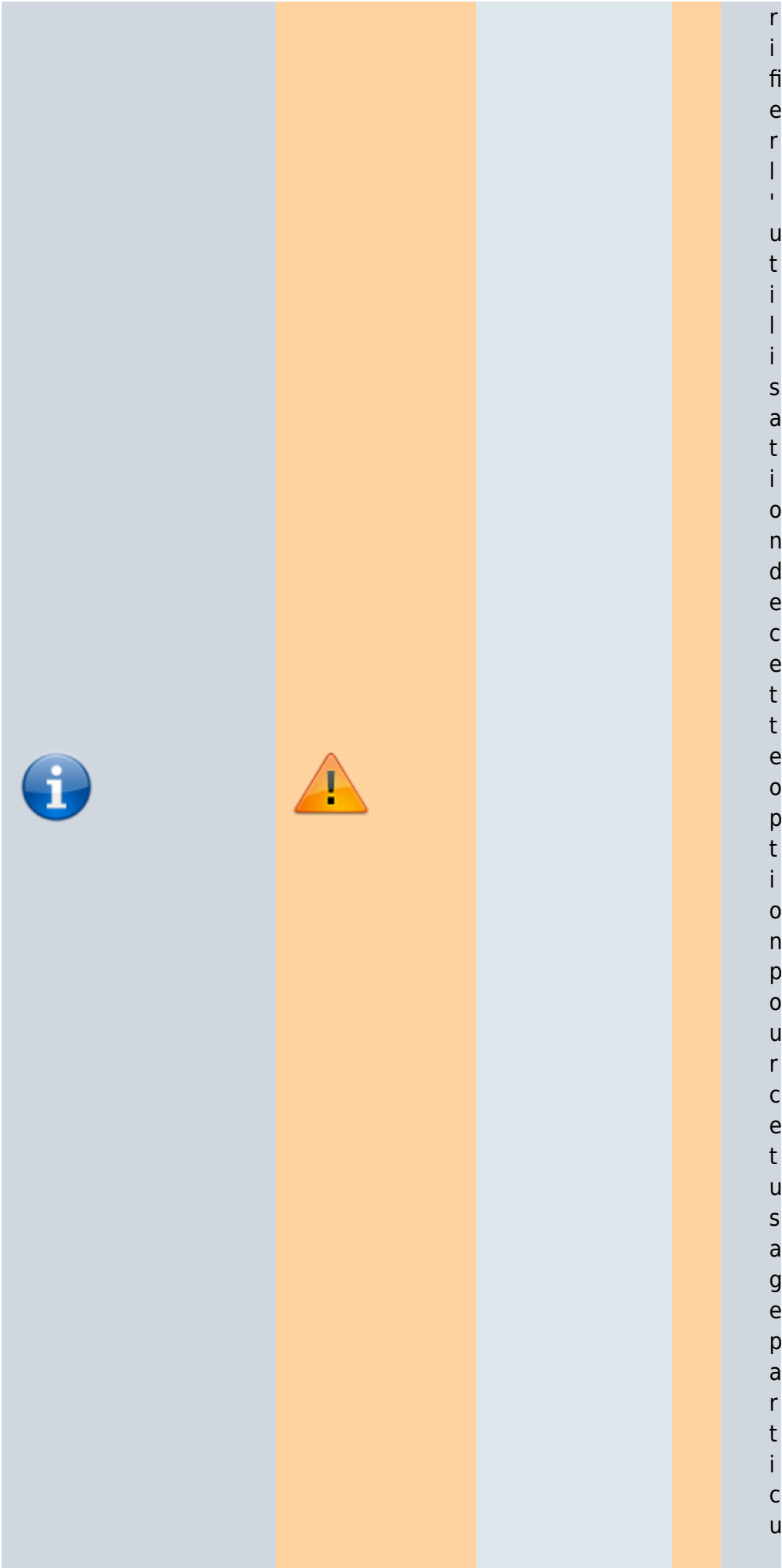
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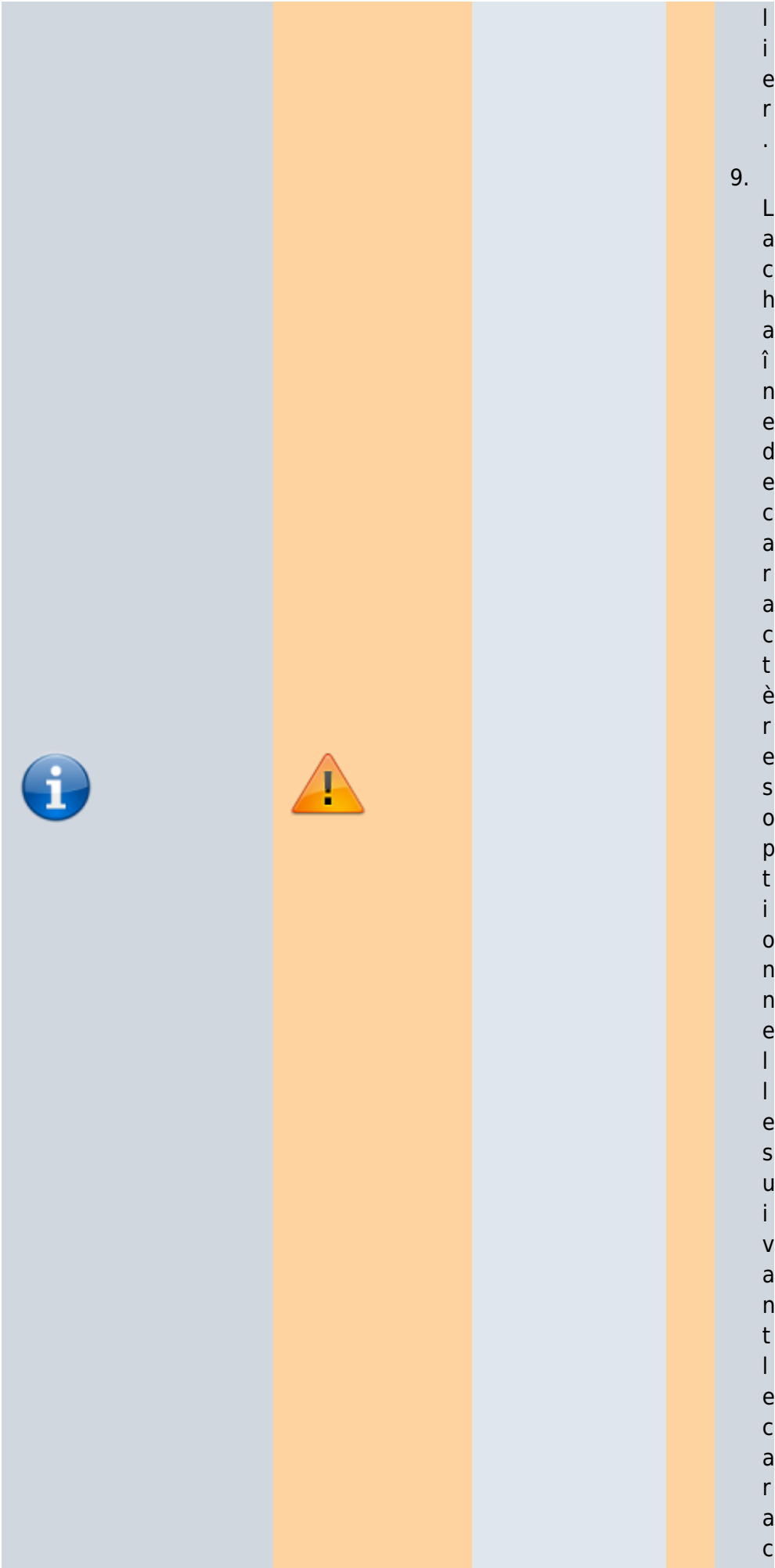
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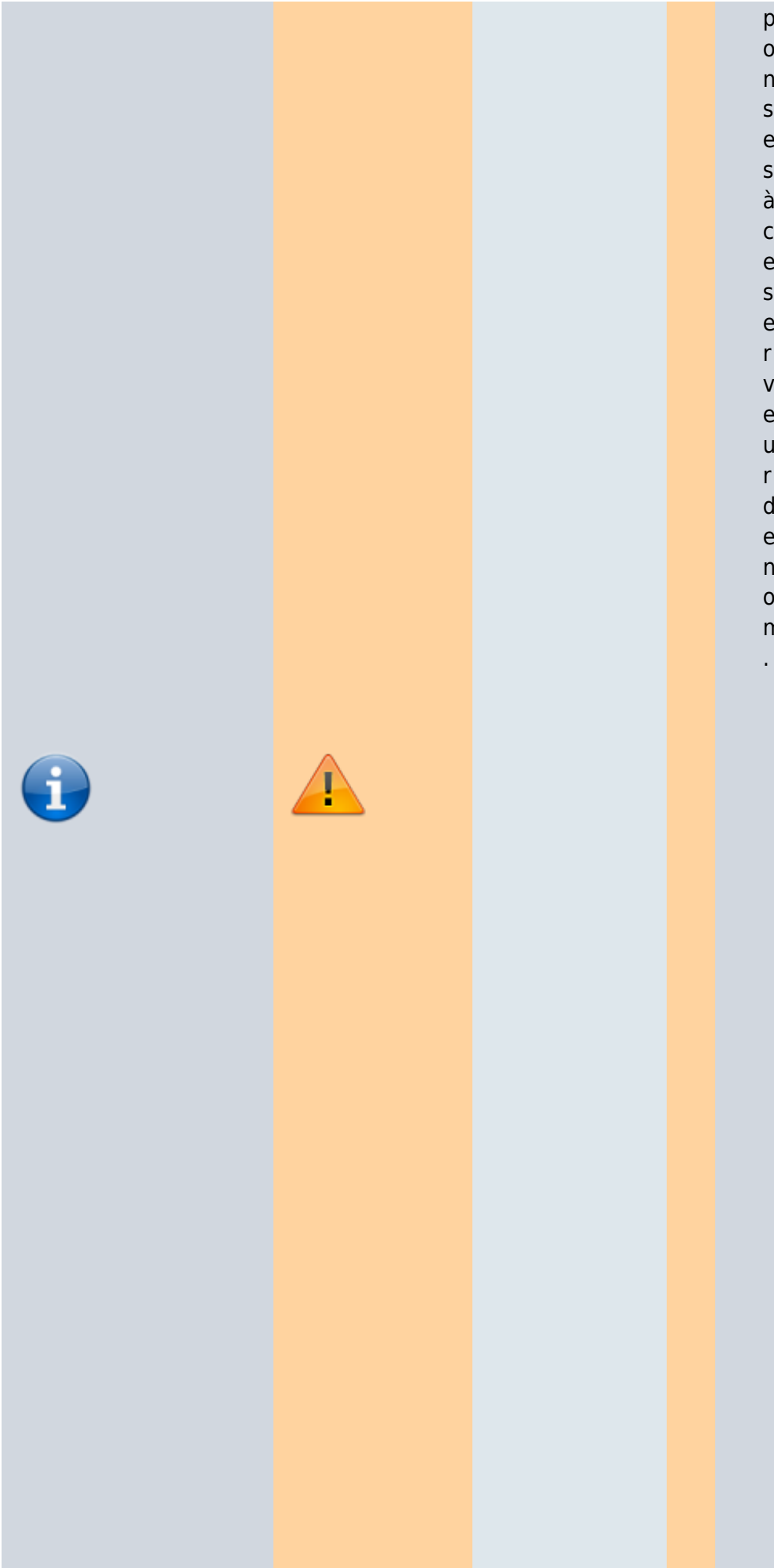




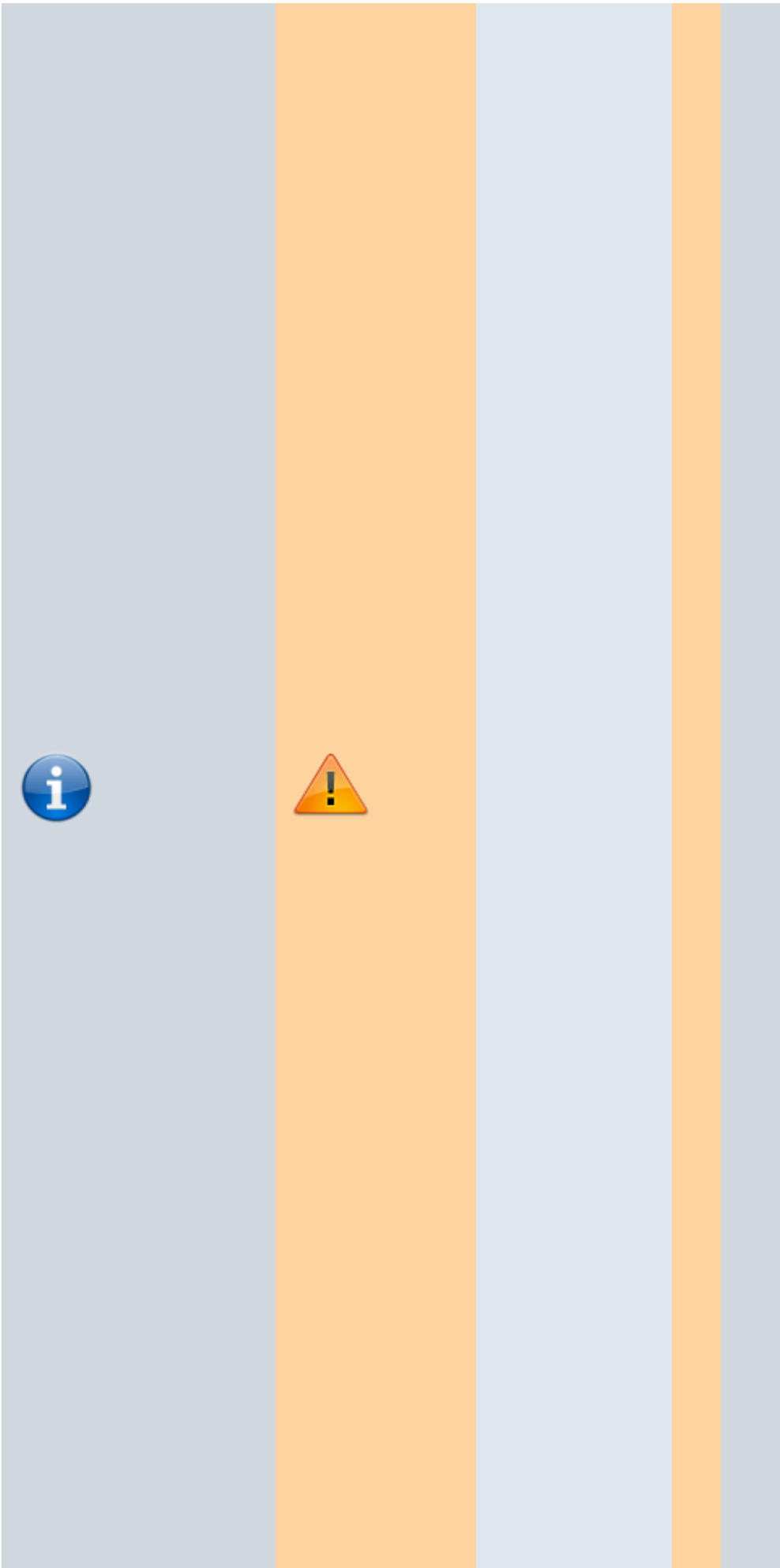


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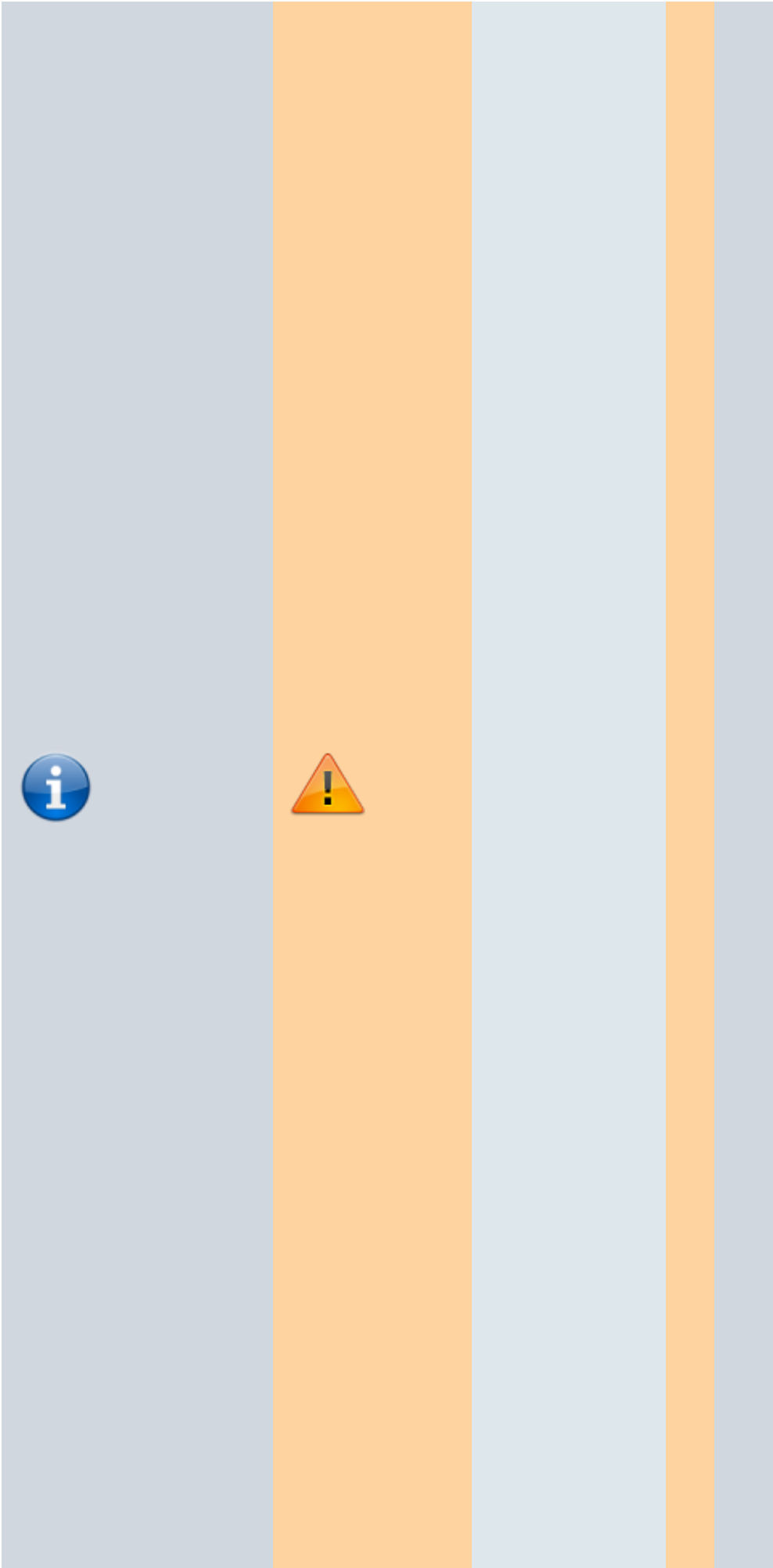
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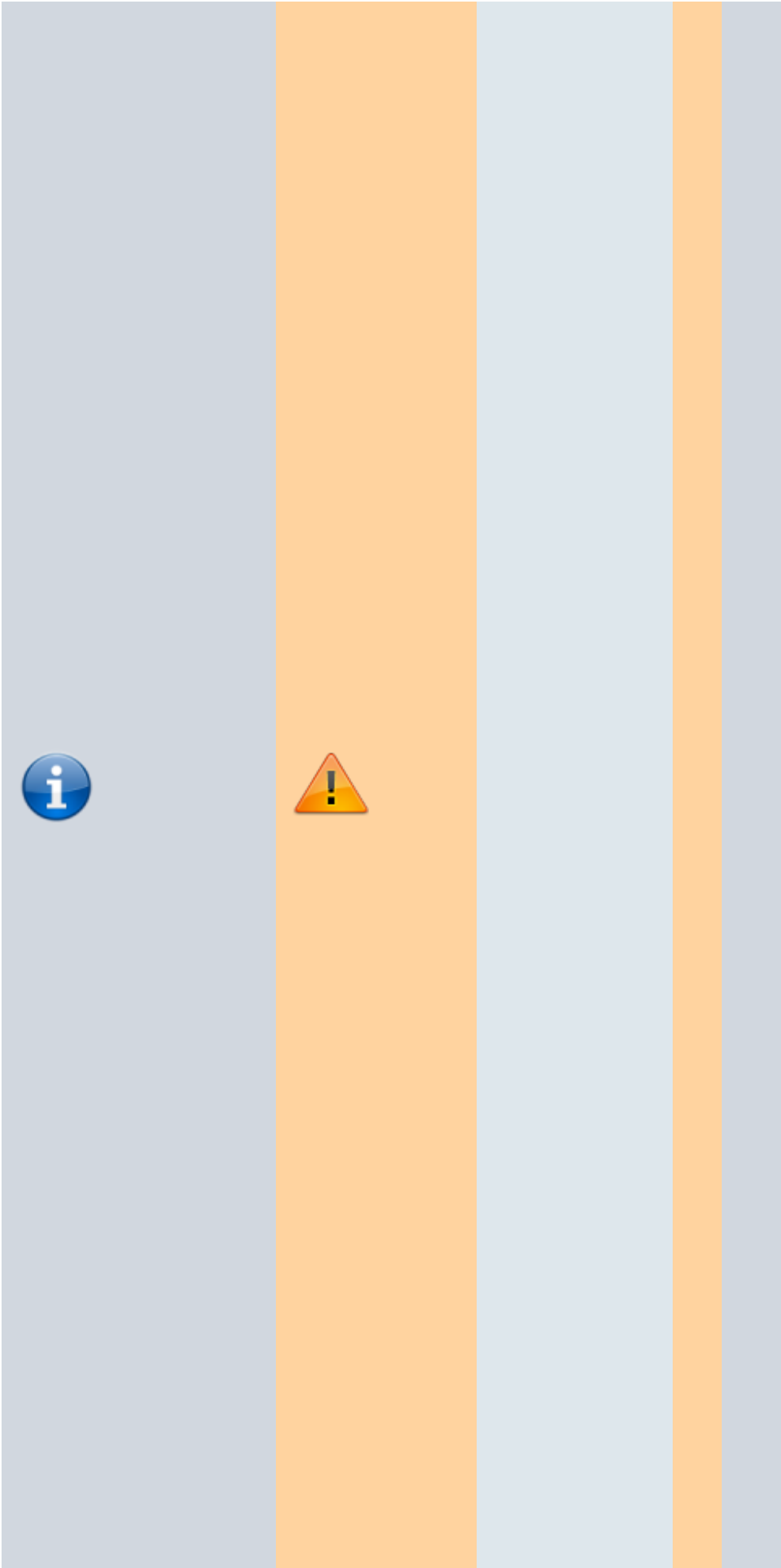
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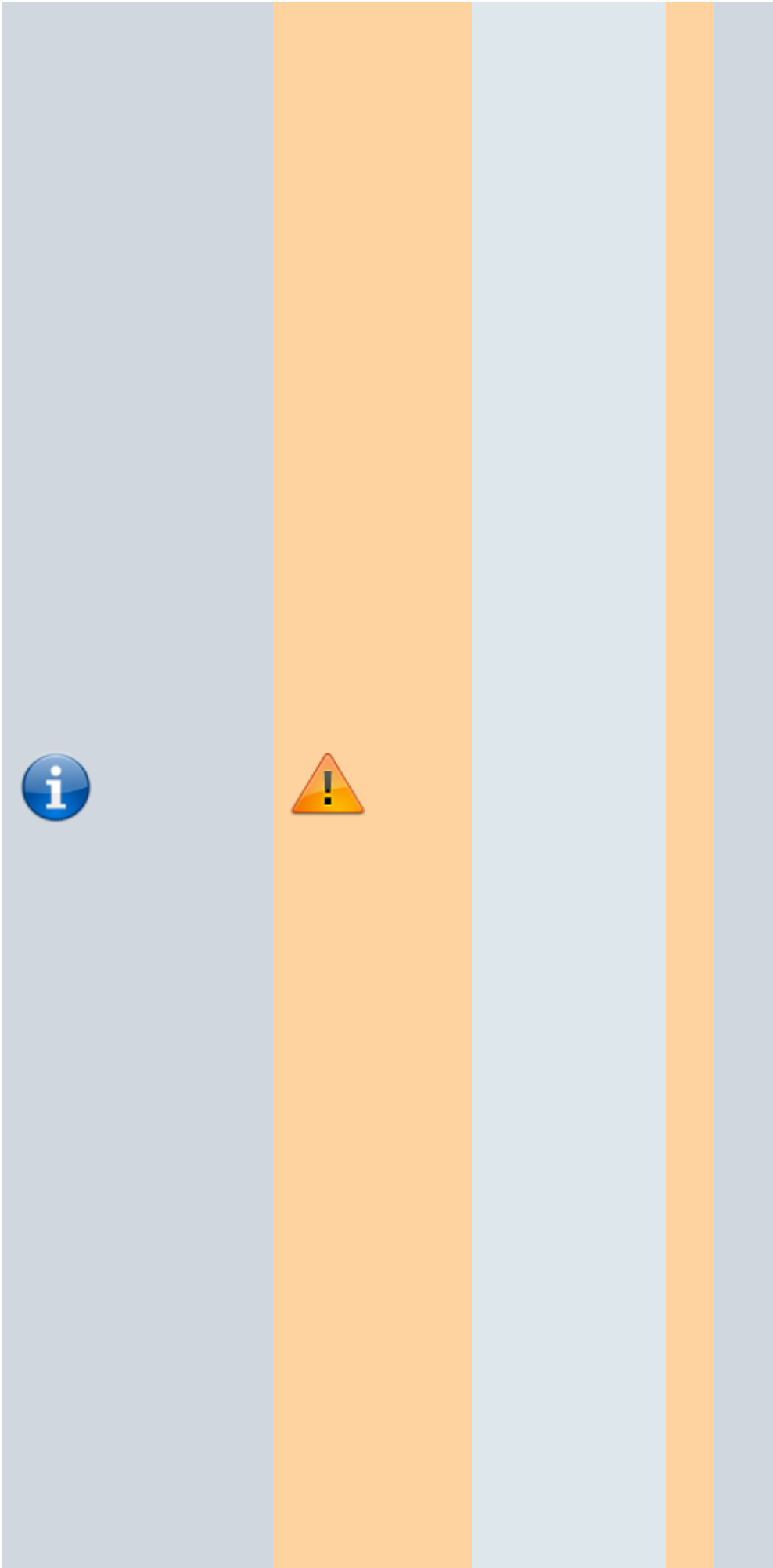
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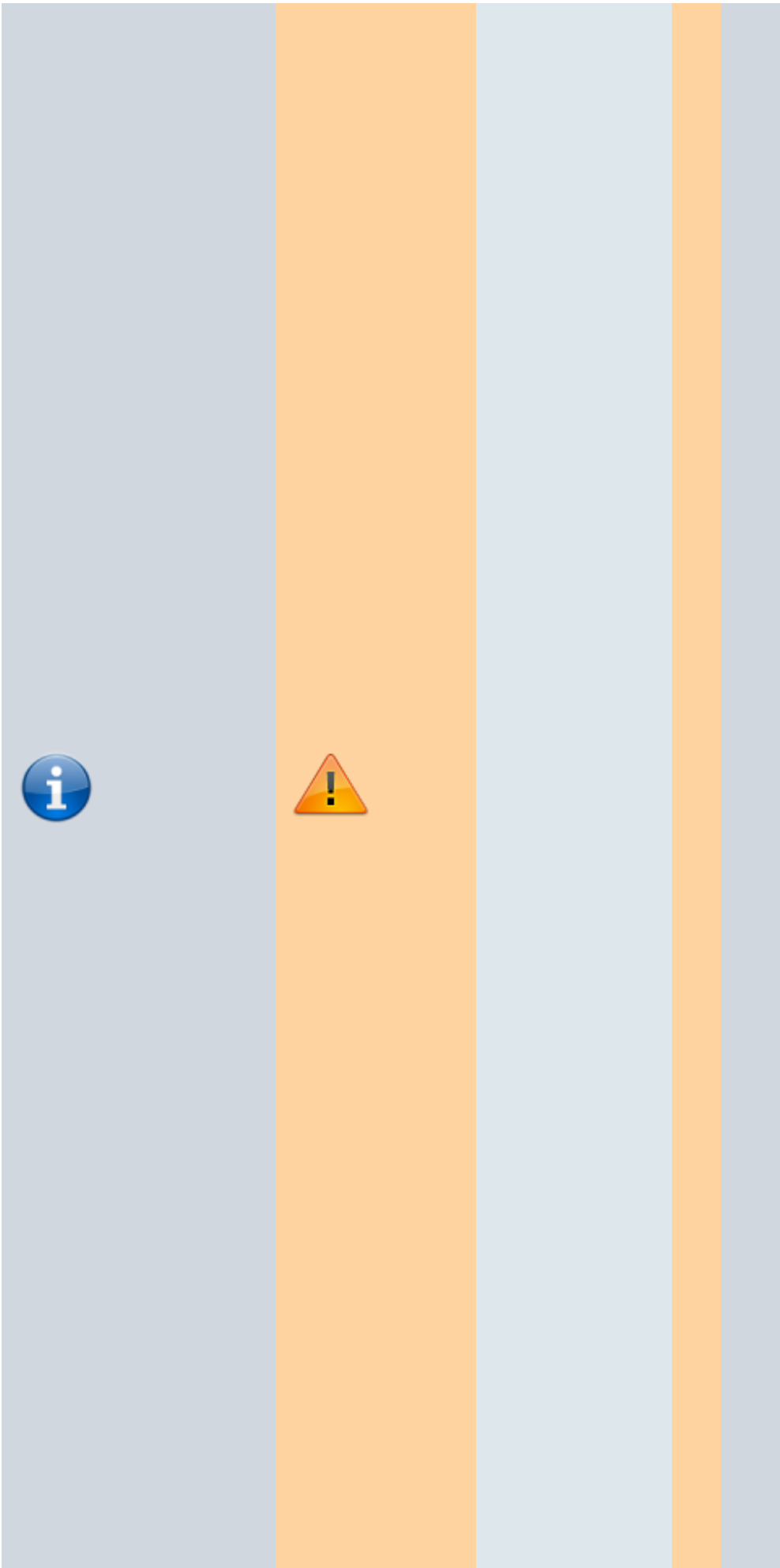
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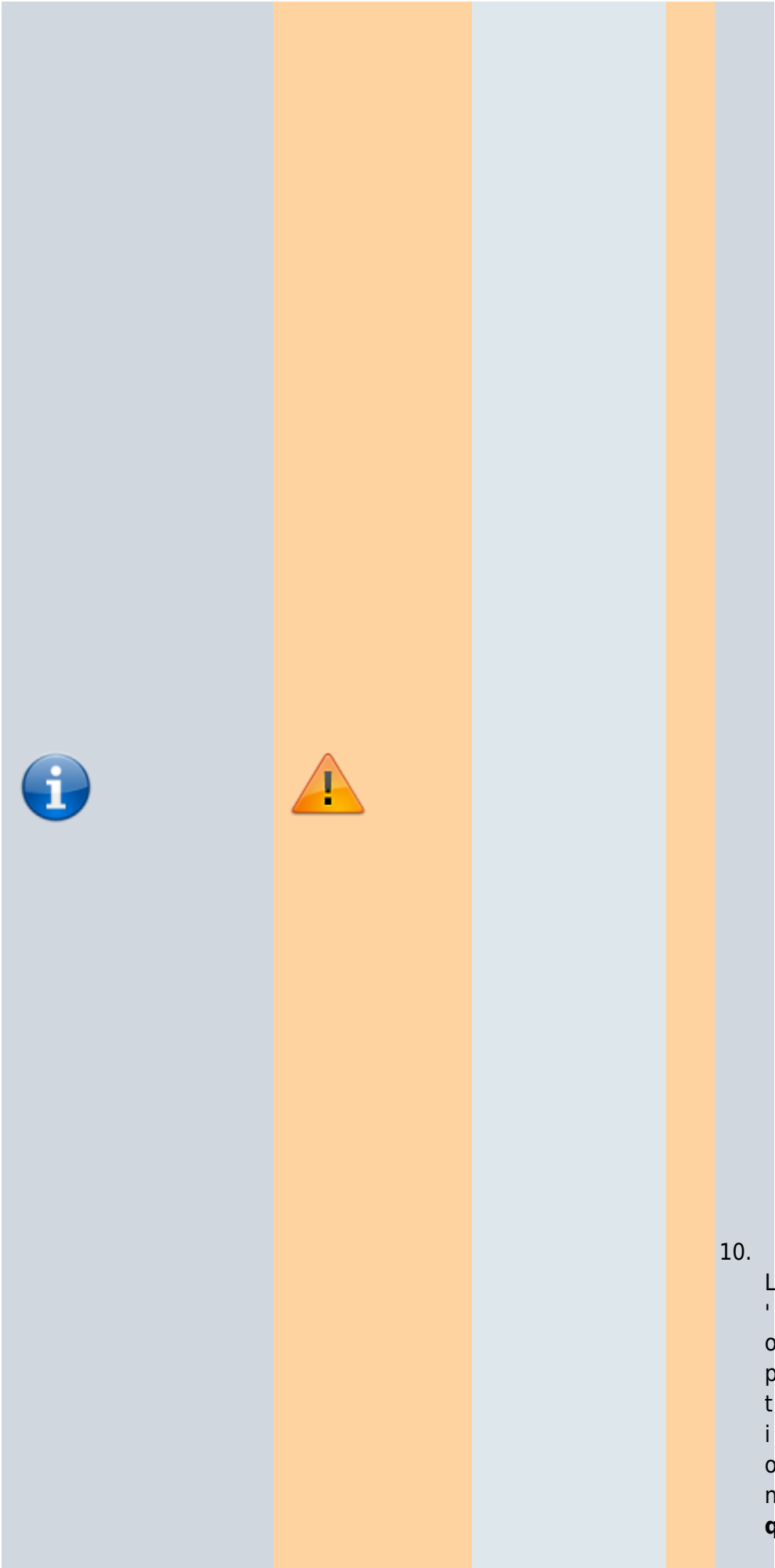
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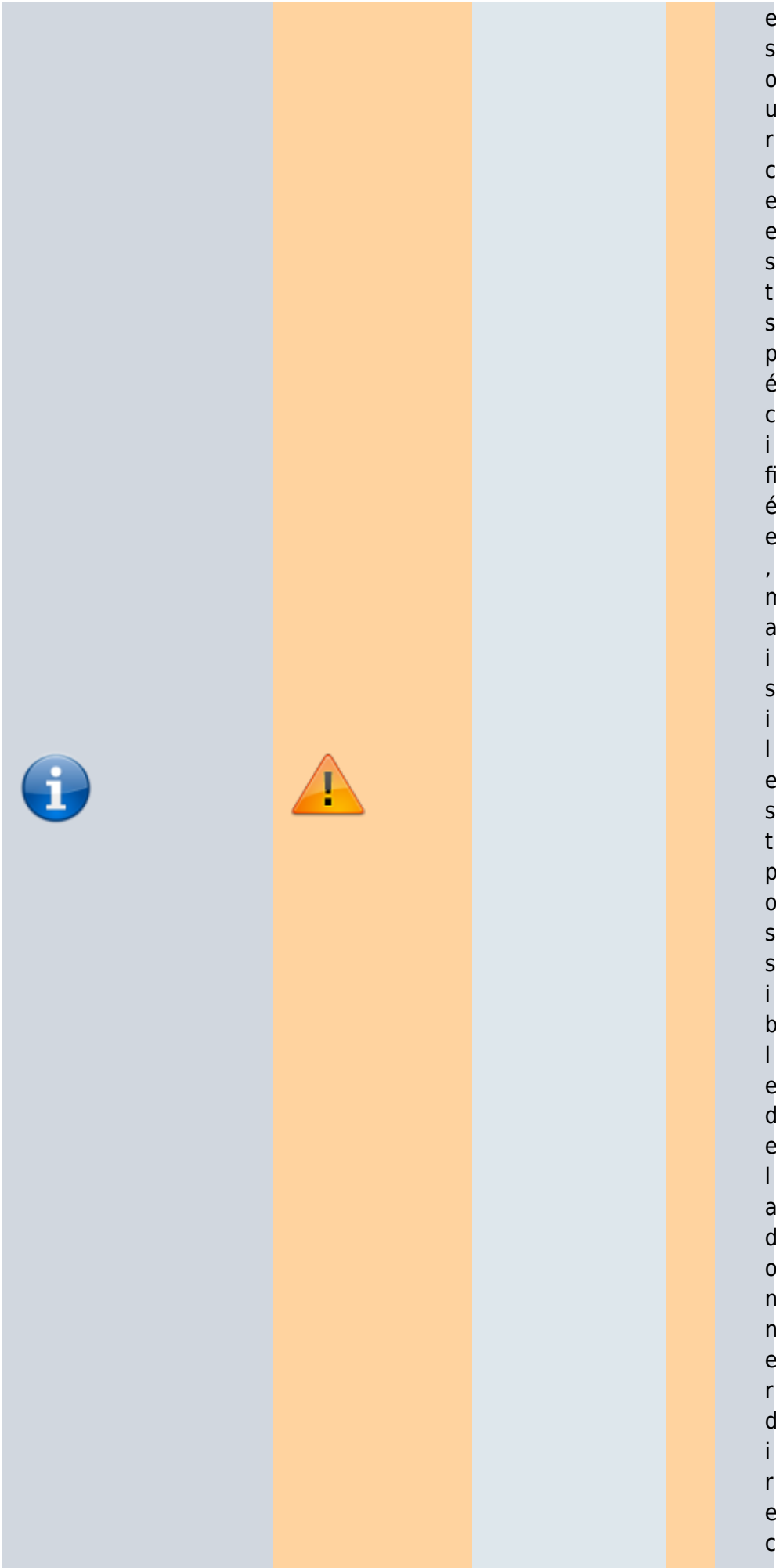
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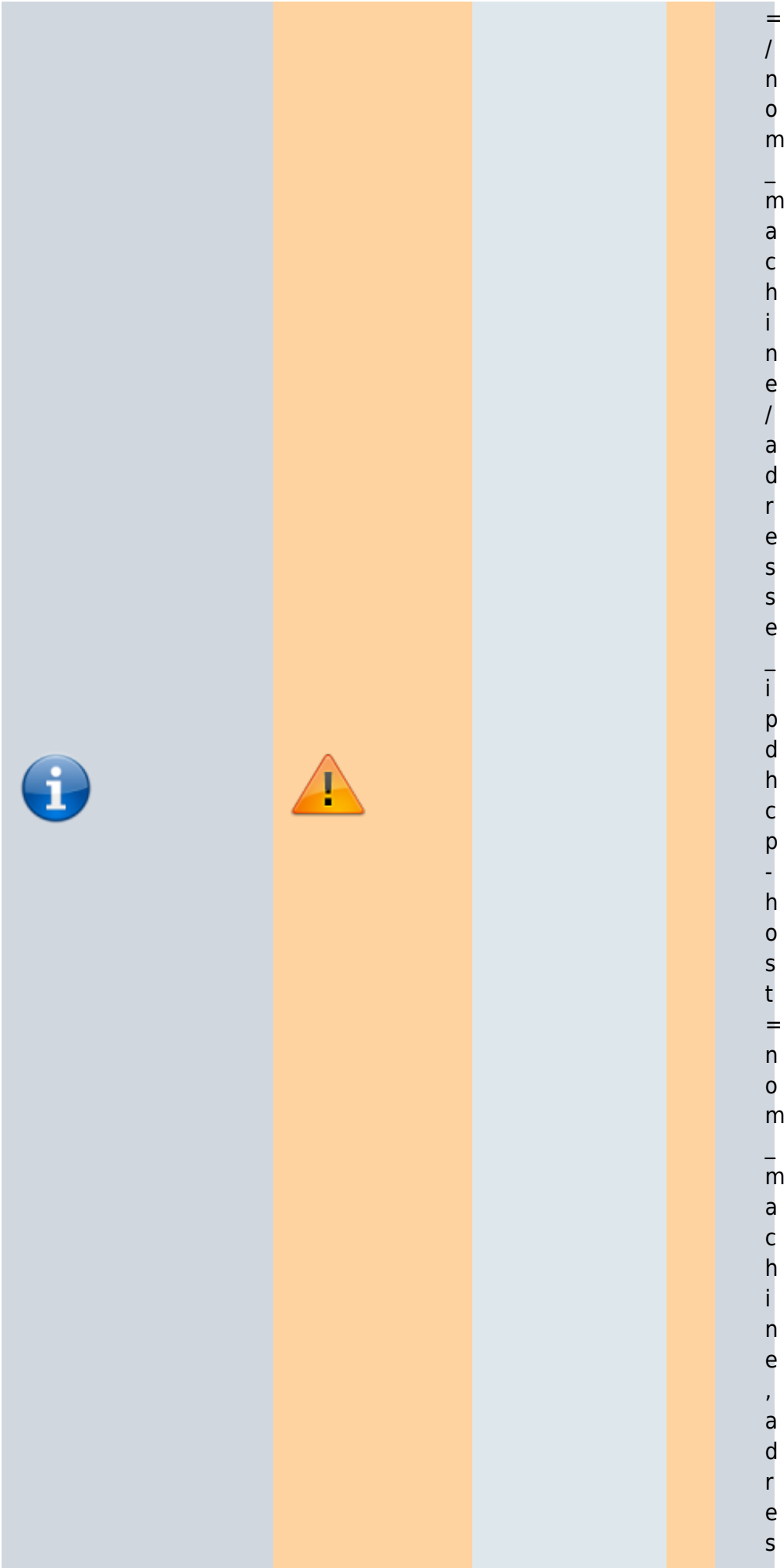
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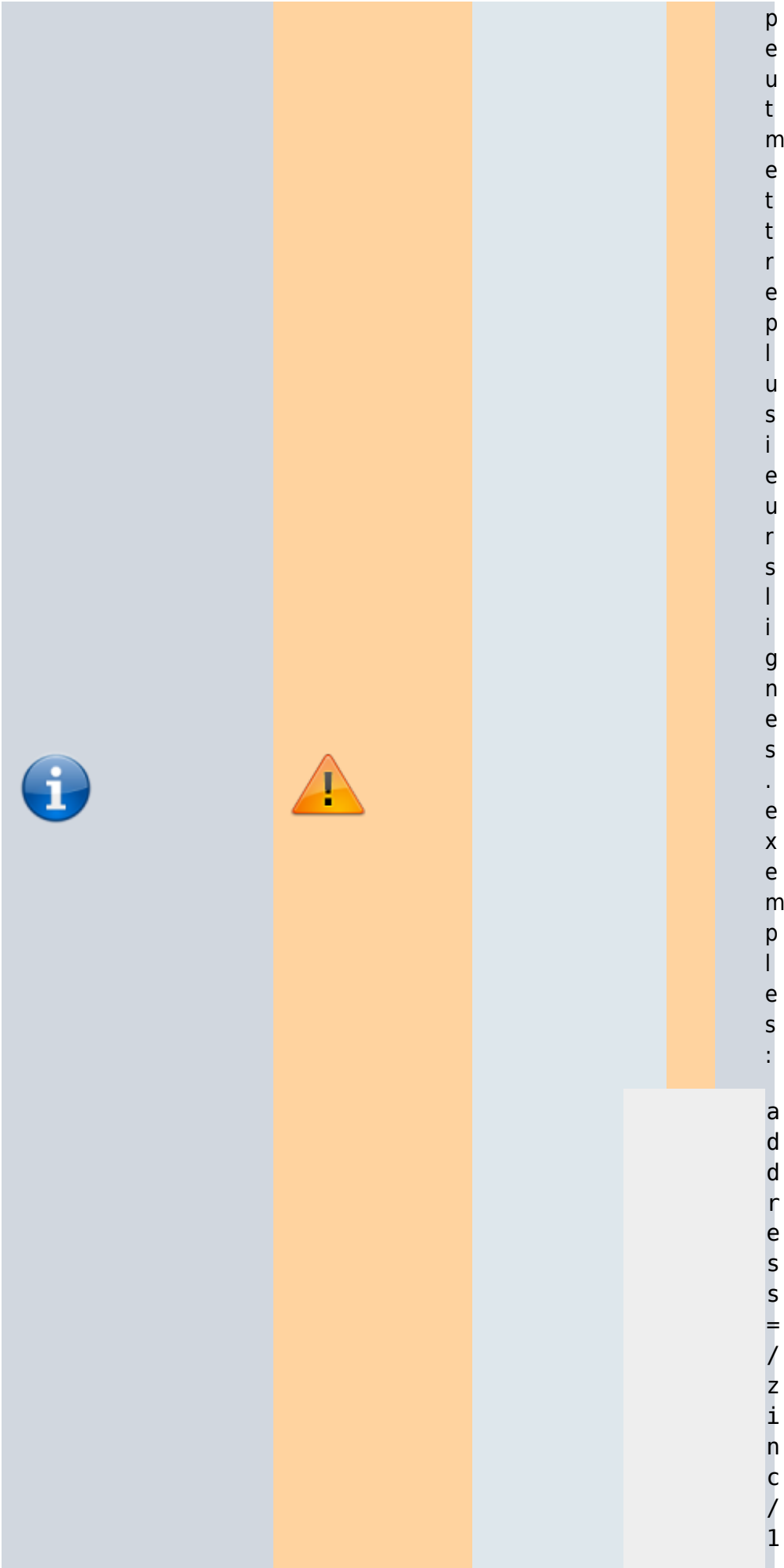
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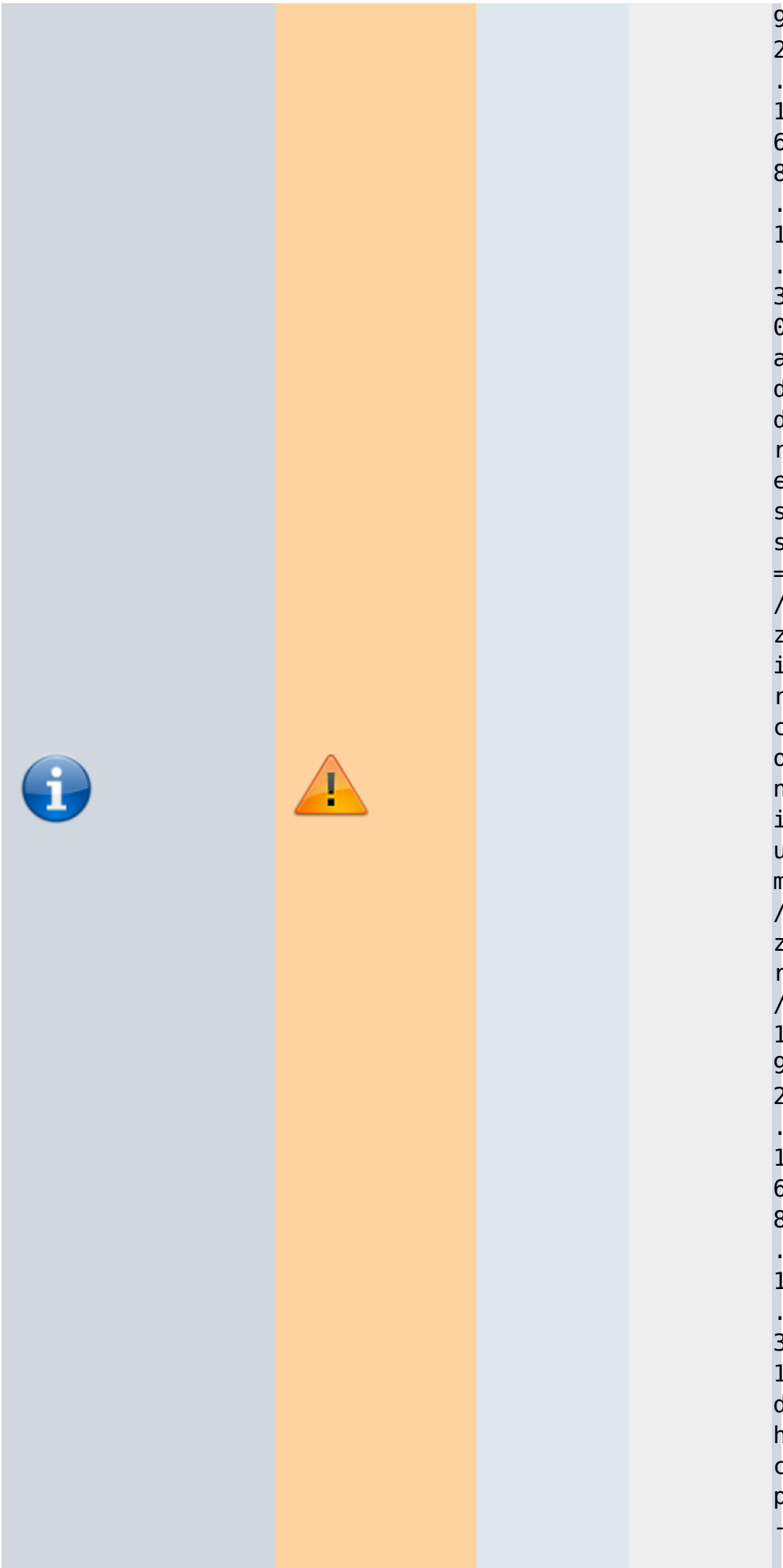


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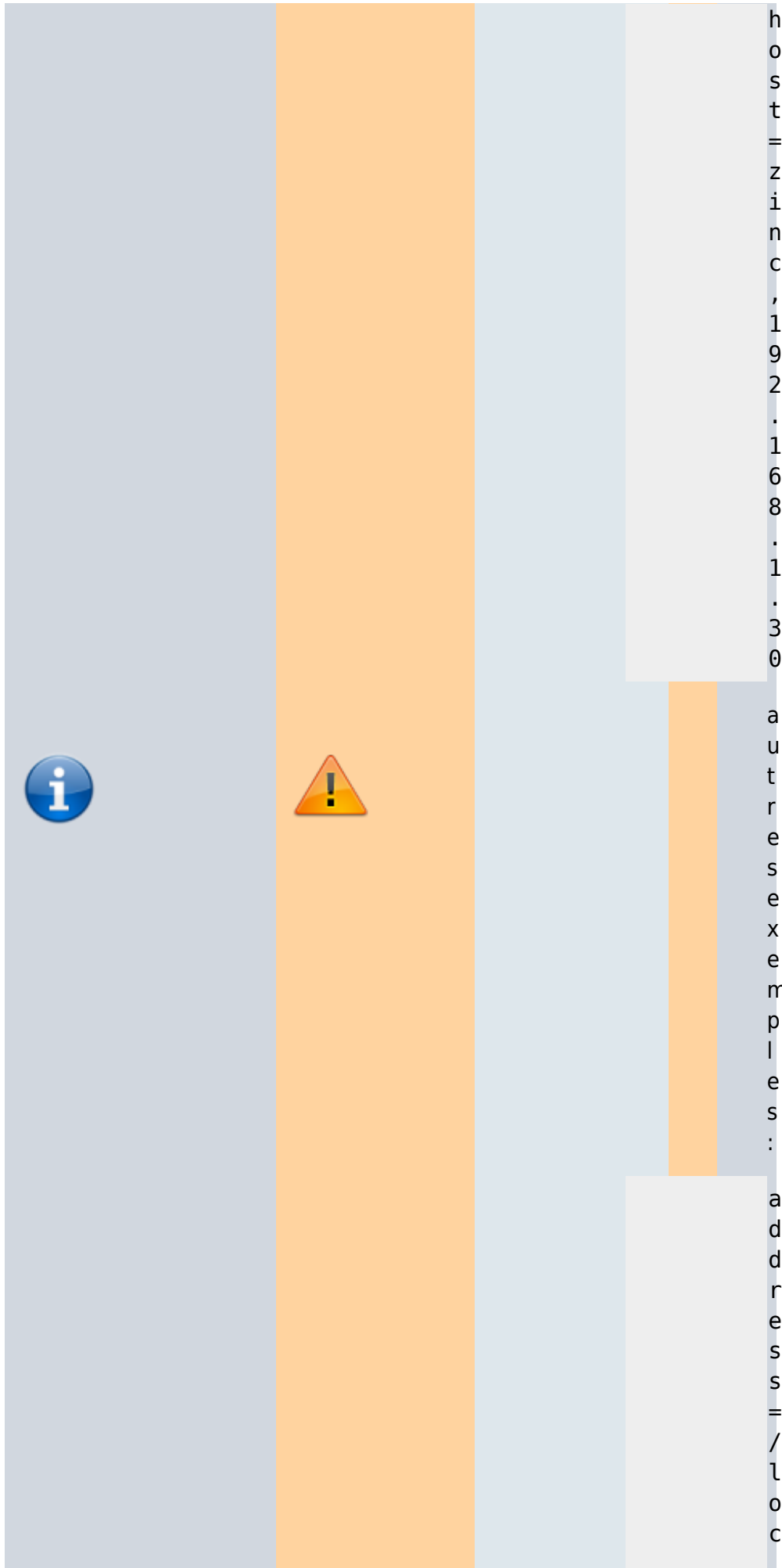


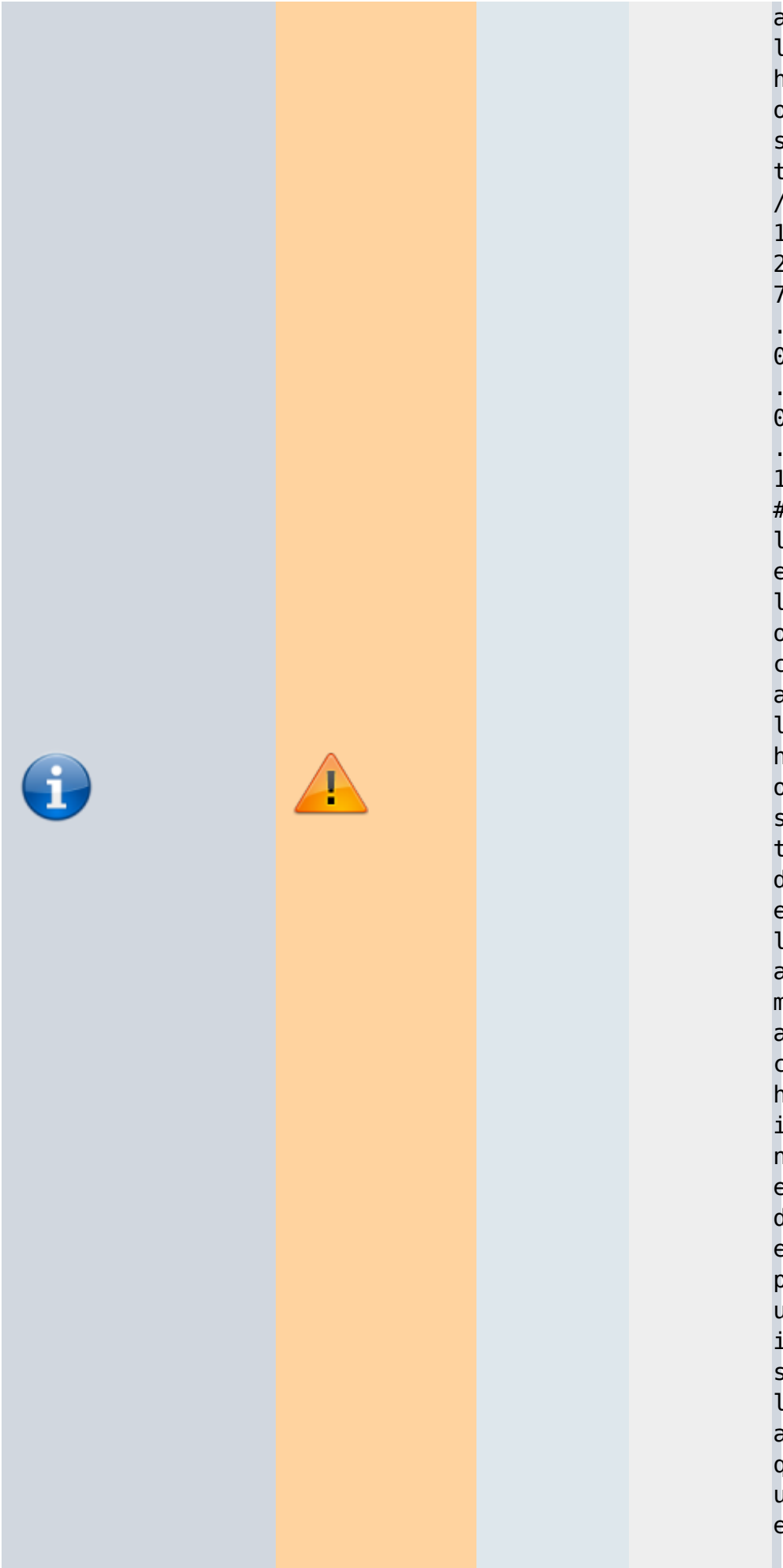
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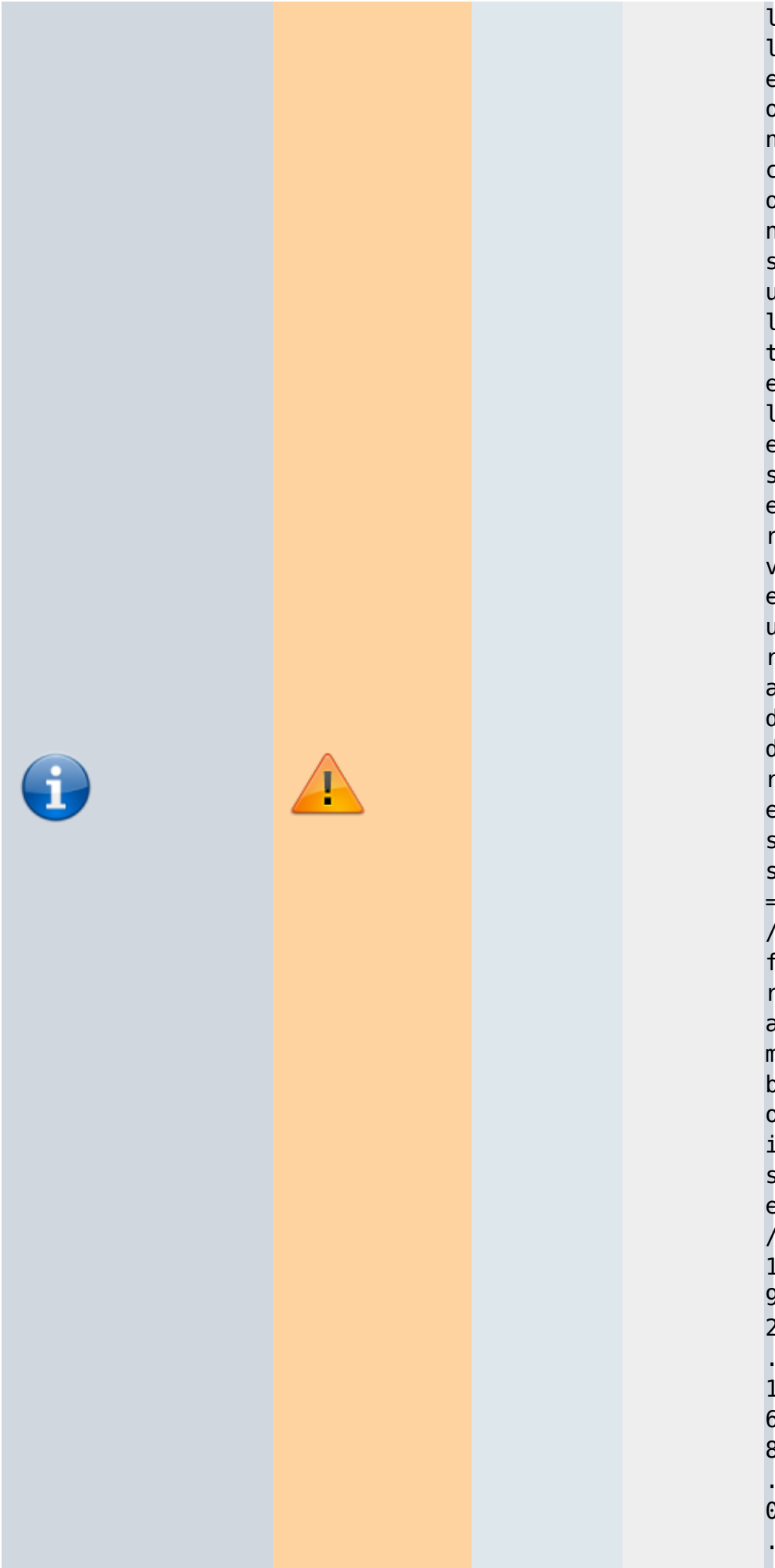


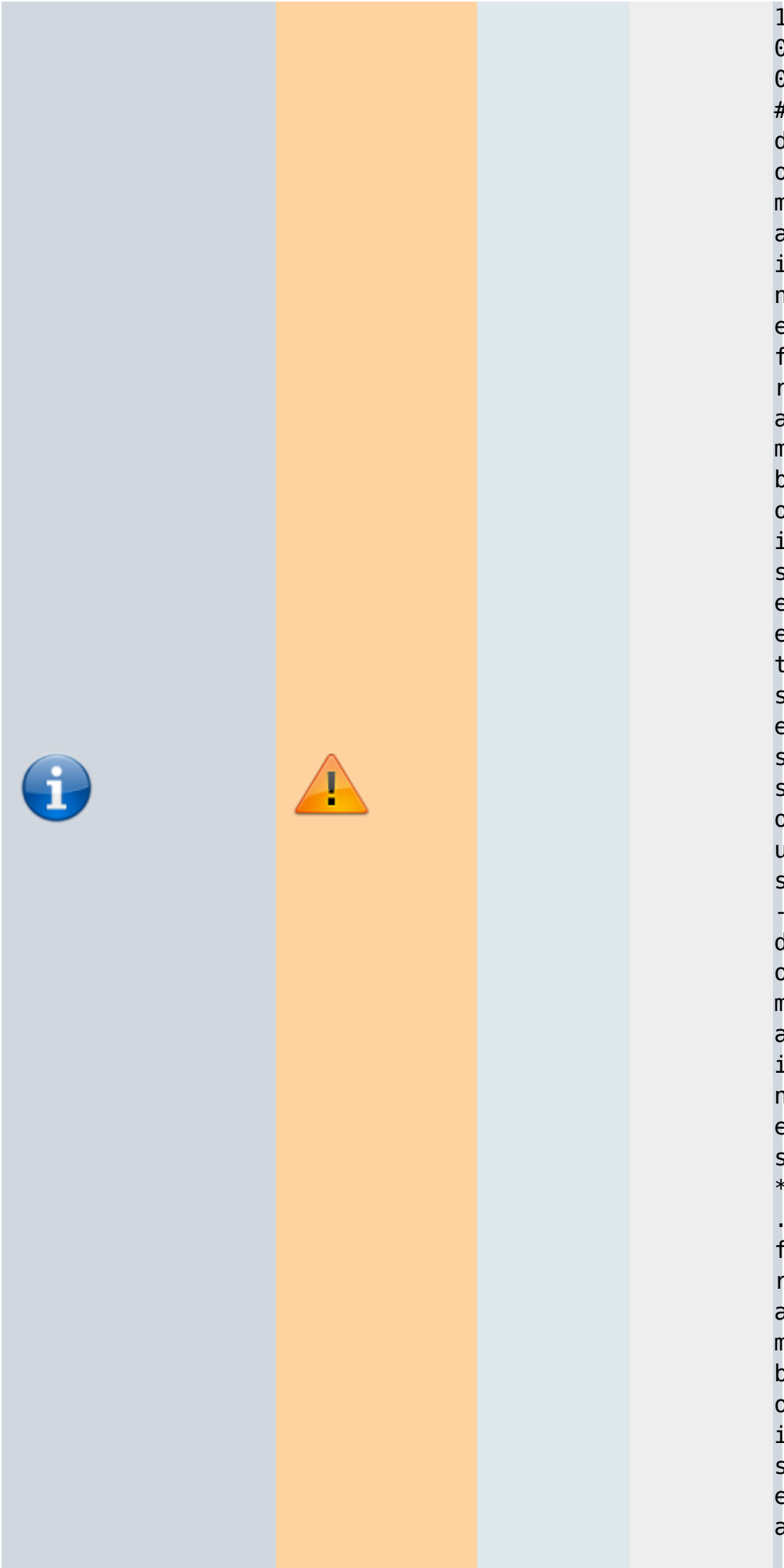
The graphic consists of four vertical bars of different colors: light blue, orange, light blue, and light grey. The orange bar contains a warning icon (a yellow triangle with a black exclamation mark). The light blue bar contains an information icon (a blue circle with a white 'i'). The light grey bar contains a vertical list of characters: 9, 2, ., 1, 6, 8, ., 1, ., 3, 0, a, d, d, r, e, s, s, =, /, z, i, r, c, o, n, i, u, m, /, z, r, /, 1, 9, 2, ., 1, 6, 8, ., 1, ., 3, 1, d, h, c, p, -.





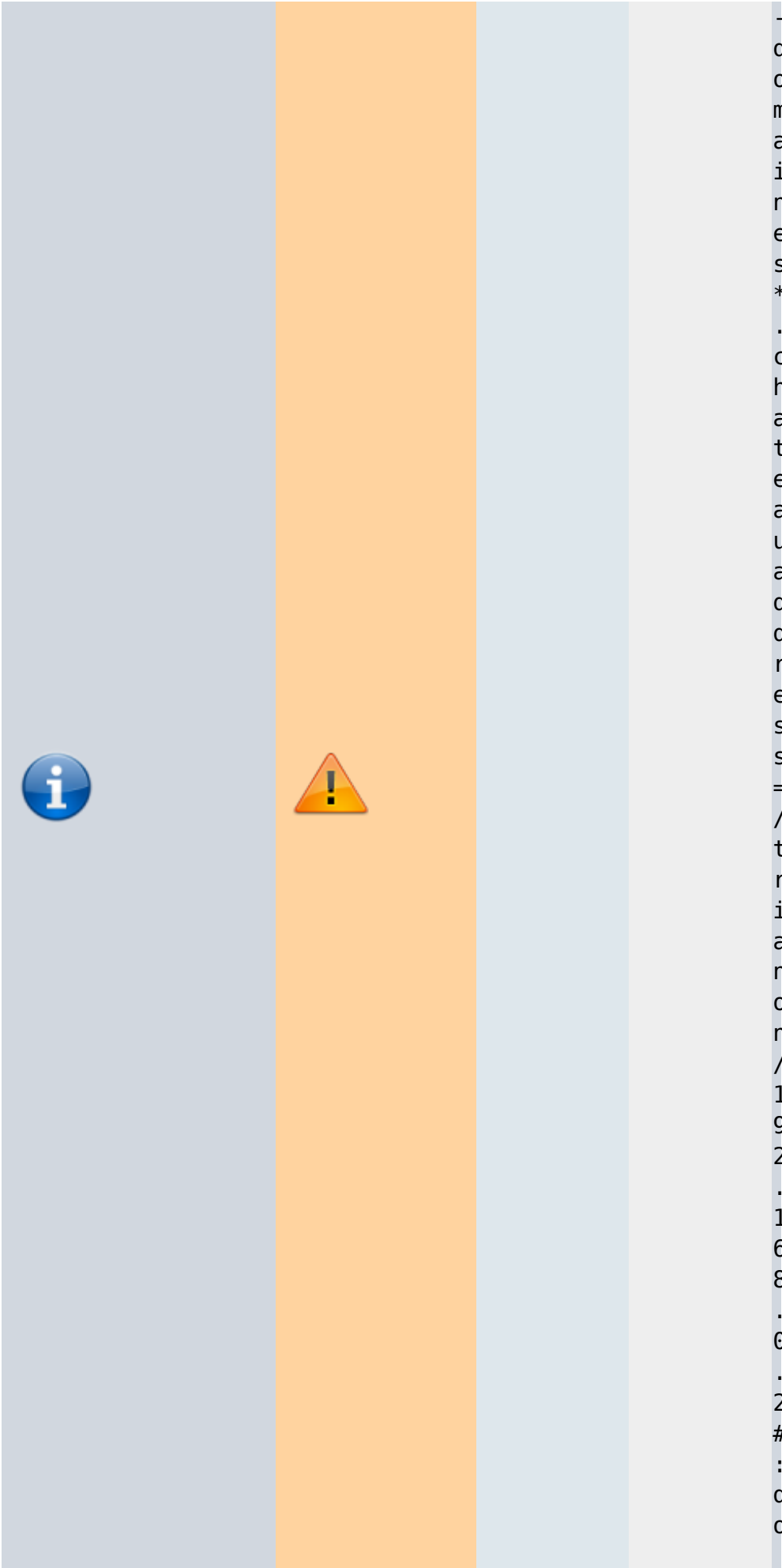
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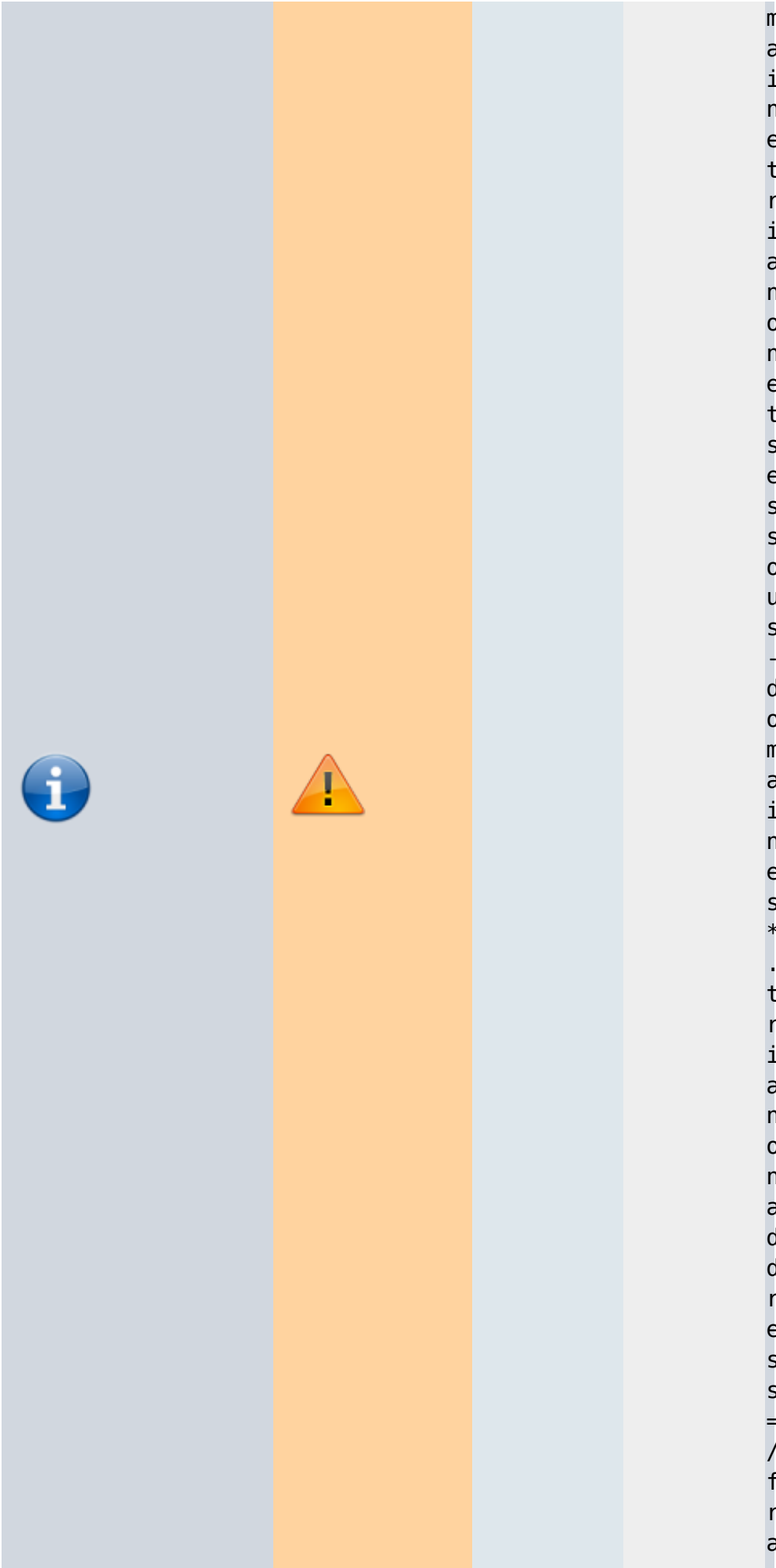


The banner consists of four vertical sections of different colors: light blue, orange, light blue, and light grey. The orange section in the center contains a yellow warning triangle icon with a black exclamation mark. The light grey section on the right contains vertical text that reads: "100 # domaine framboissee sossou s - domaine s* .framboissee a".

The image shows a vertical banner with four distinct color sections from top to bottom: light blue, orange, light blue, and light grey. In the orange section, there is a yellow warning triangle icon with a black exclamation mark. In the light grey section, the text "d d r e s s = / c h a t e a u / 1 9 2 . 1 6 8 . 0 . 1 # d o m a i n e c h a t e a u e t s e s s o u s" is written vertically in a monospaced font. In the first light blue section, there is a blue circular icon with a white lowercase letter 'i'.

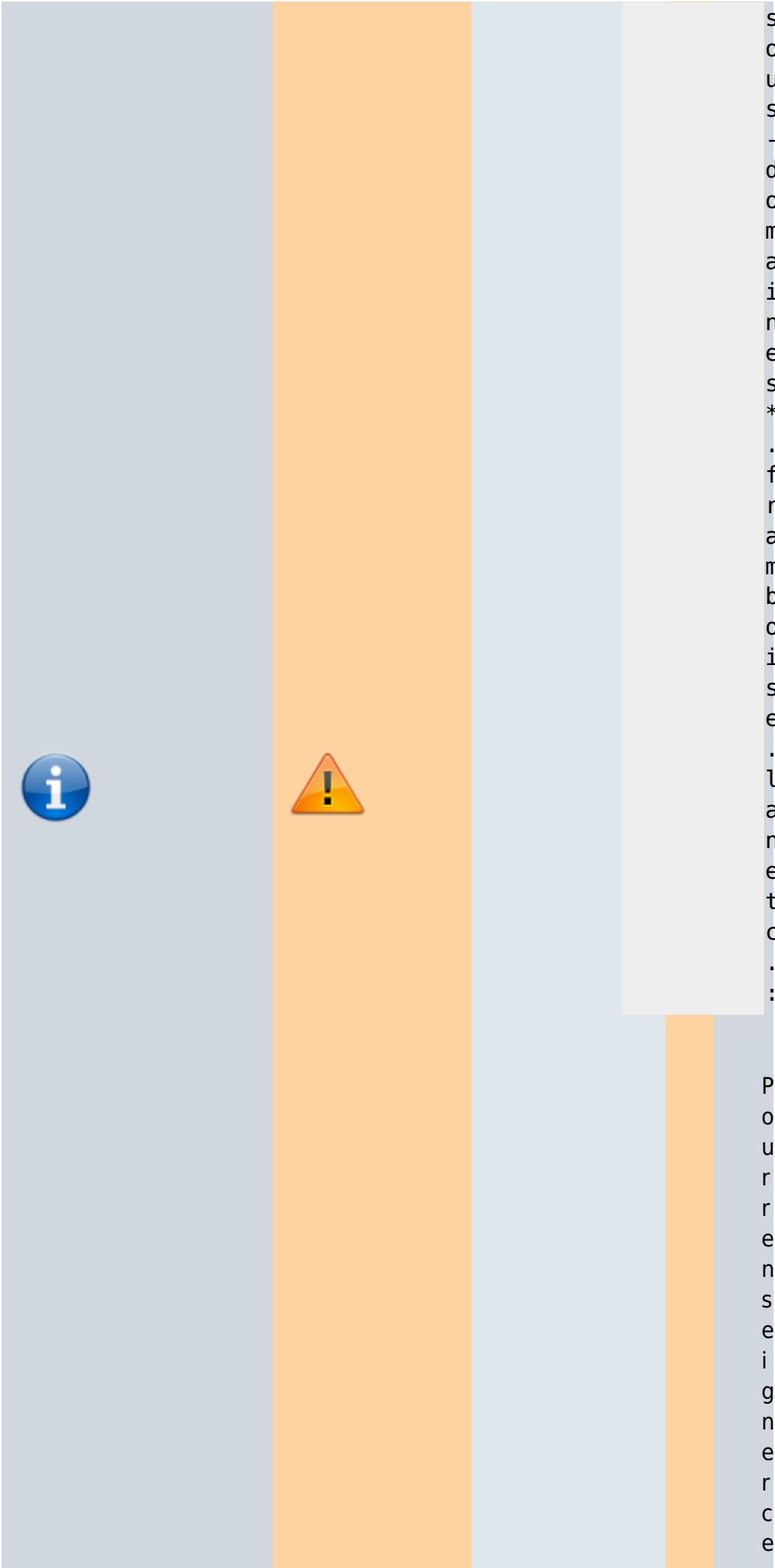


The vertical bar consists of four segments. The first segment is light blue and contains a blue circular information icon with a white 'i'. The second segment is orange and contains a yellow triangular warning icon with a black exclamation mark. The third segment is light blue and is empty. The fourth segment is light grey and contains a vertical list of domain names: - d, o, m, a, i, n, e, s, *, ., c, h, a, t, e, a, u, a, d, d, r, e, s, s, =, /, t, r, i, a, n, o, n, /, 1, 9, 2, ., 1, 6, 8, ., 0, ., 2, #, :, d, o.



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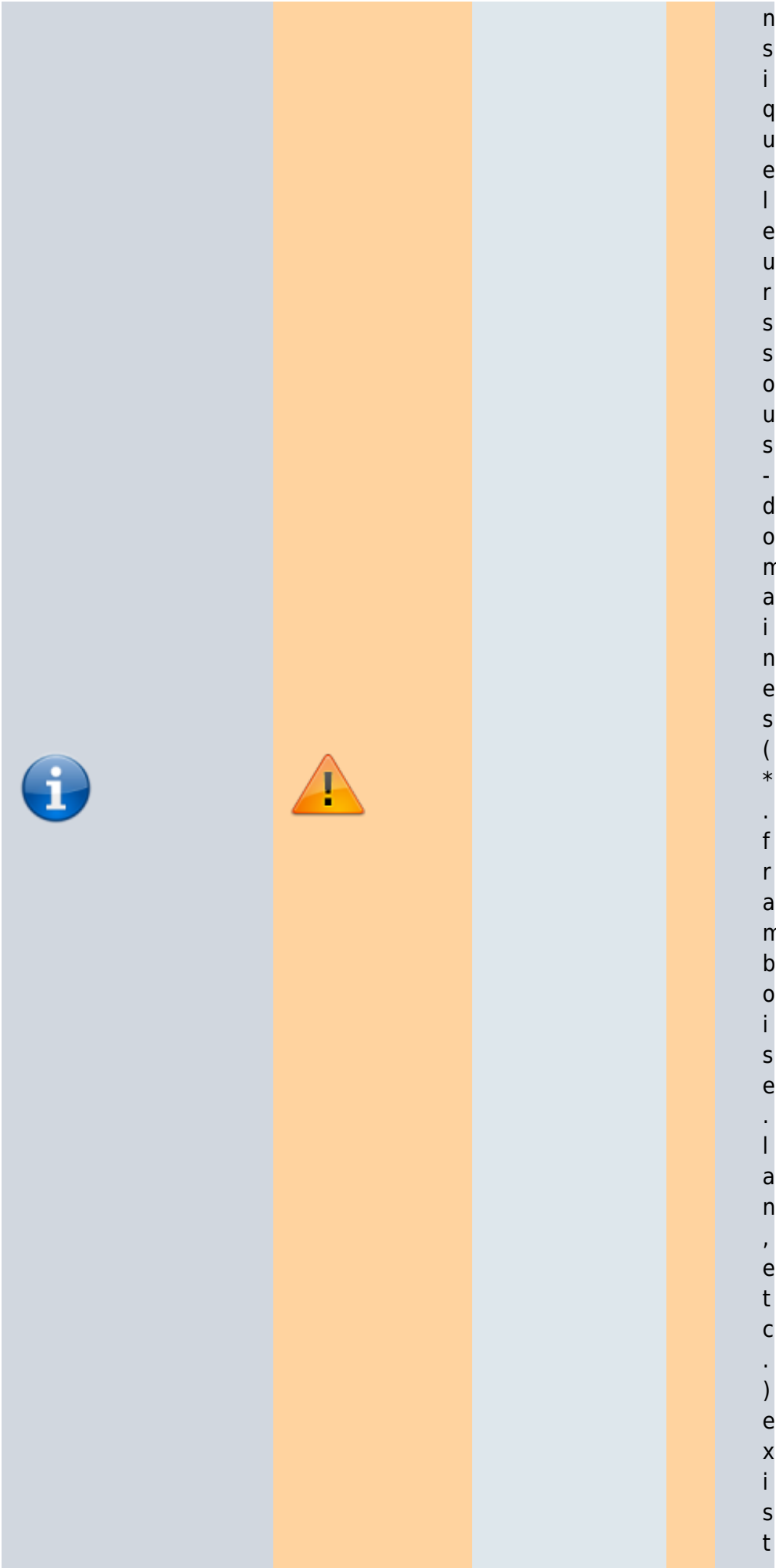
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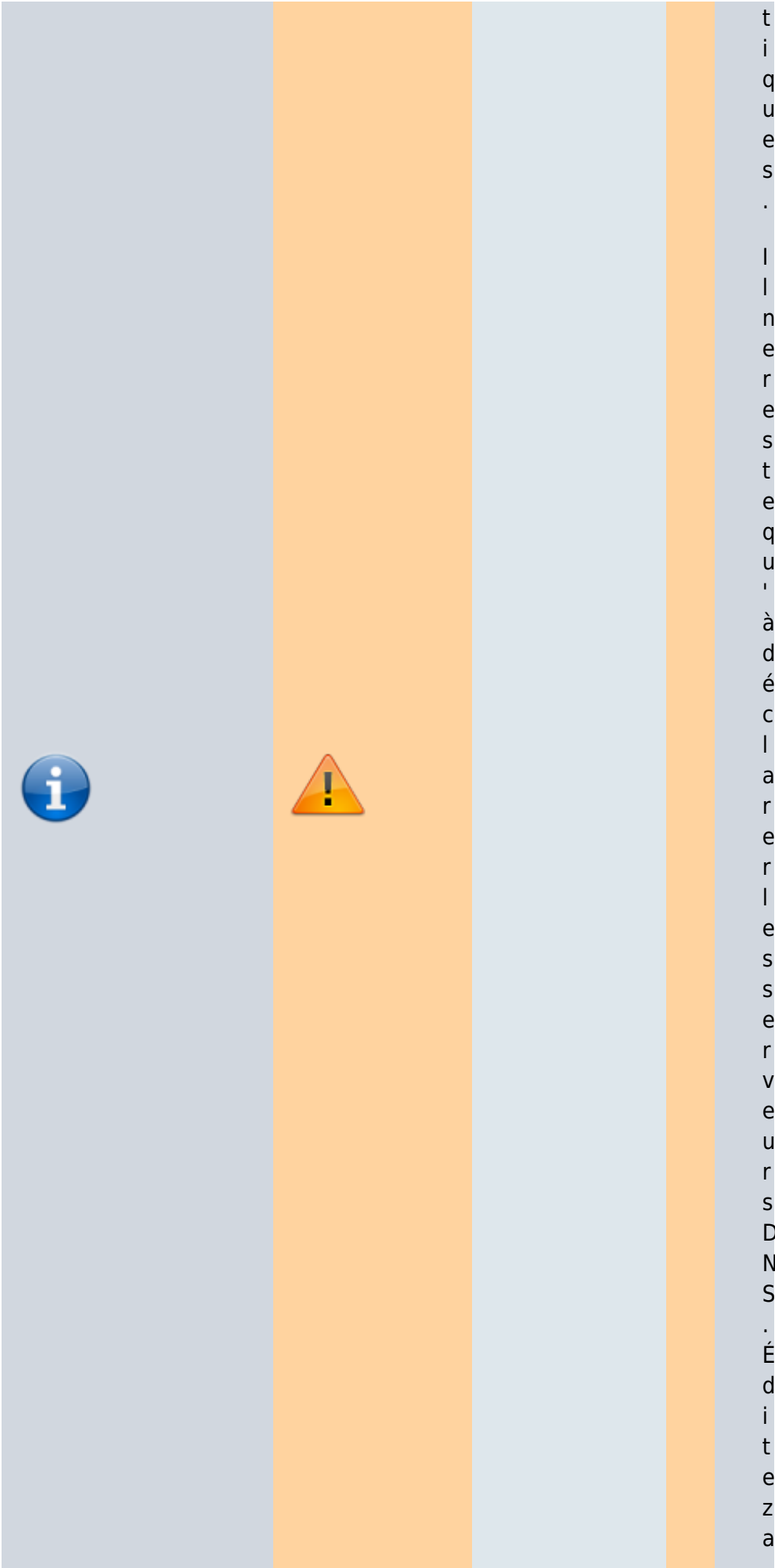
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The diagram consists of four vertical bars of varying colors: light blue, orange, light blue, and orange. The first light blue bar contains a blue information icon with a white lowercase 'i'. The second orange bar contains a yellow warning icon with a black exclamation mark. The third light blue bar is empty. The fourth orange bar is empty. At the bottom right, a white rectangular box contains a terminal command: `$ sudo service dnsmasq`. The text 'a r r e r l e s e r v i c e e n t a p a n t l a c o m m a n d e : \$ s u d o s e r v i c e d n s m a' is written vertically along the right edge of the diagram.

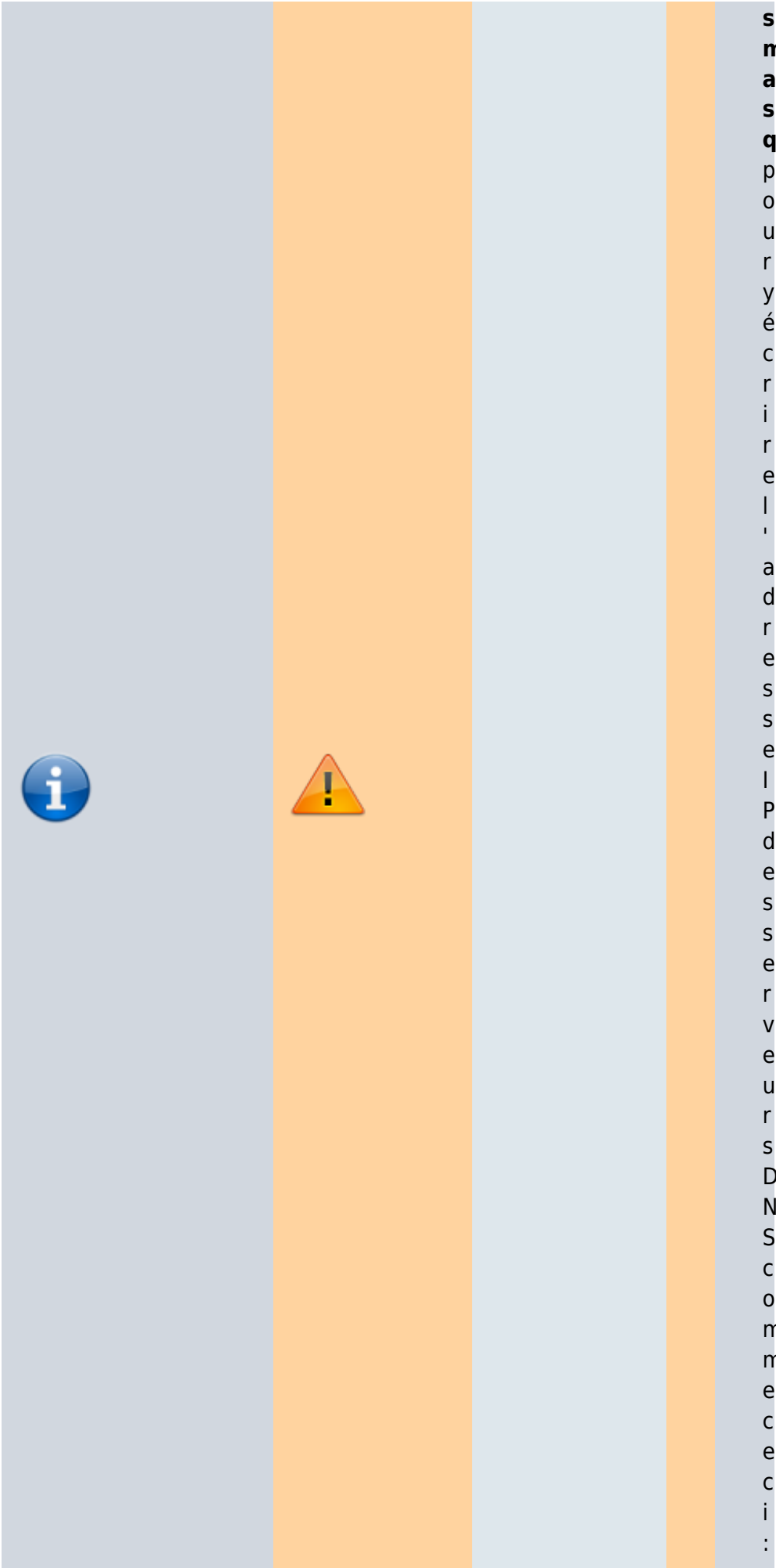
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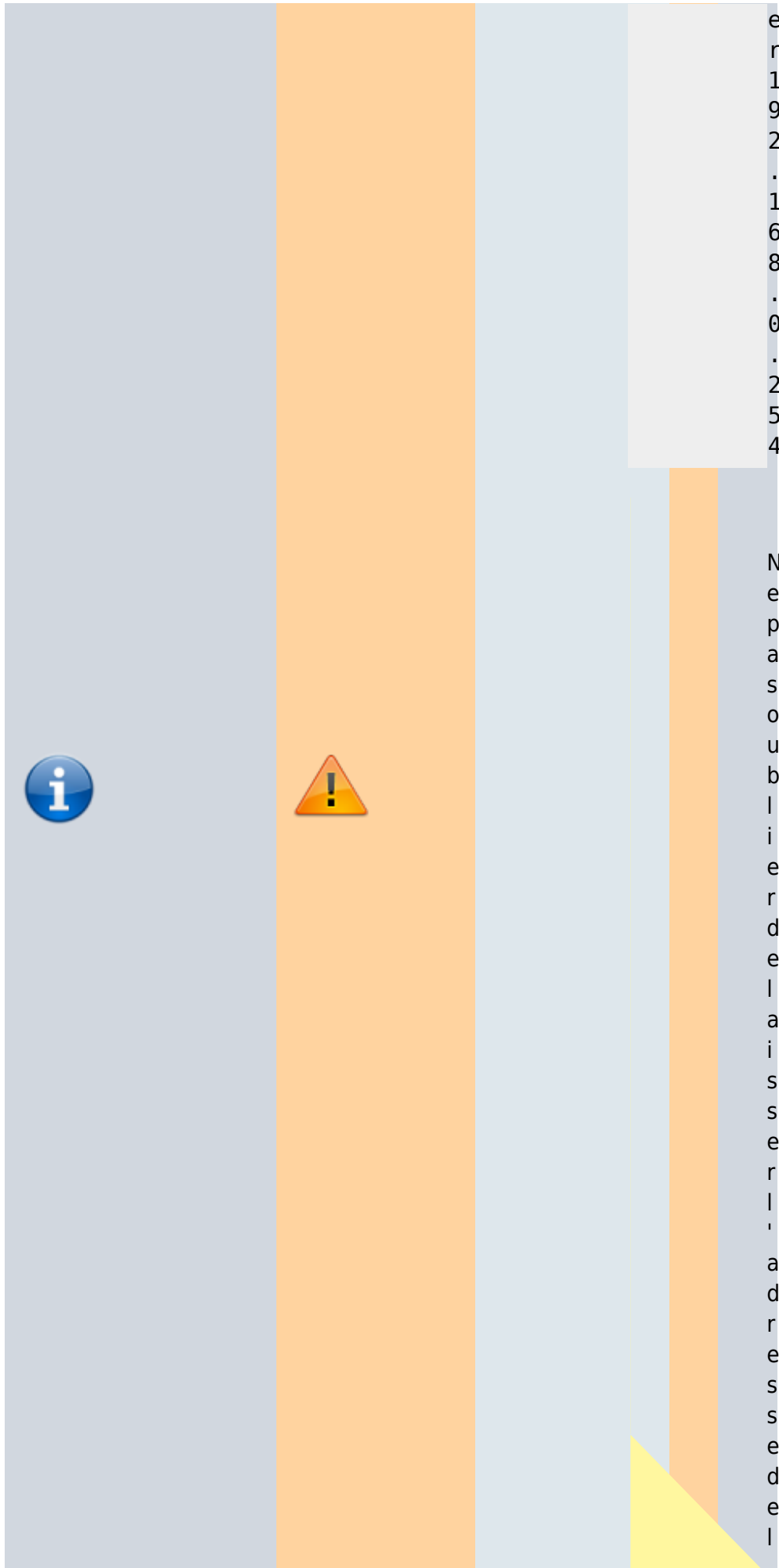
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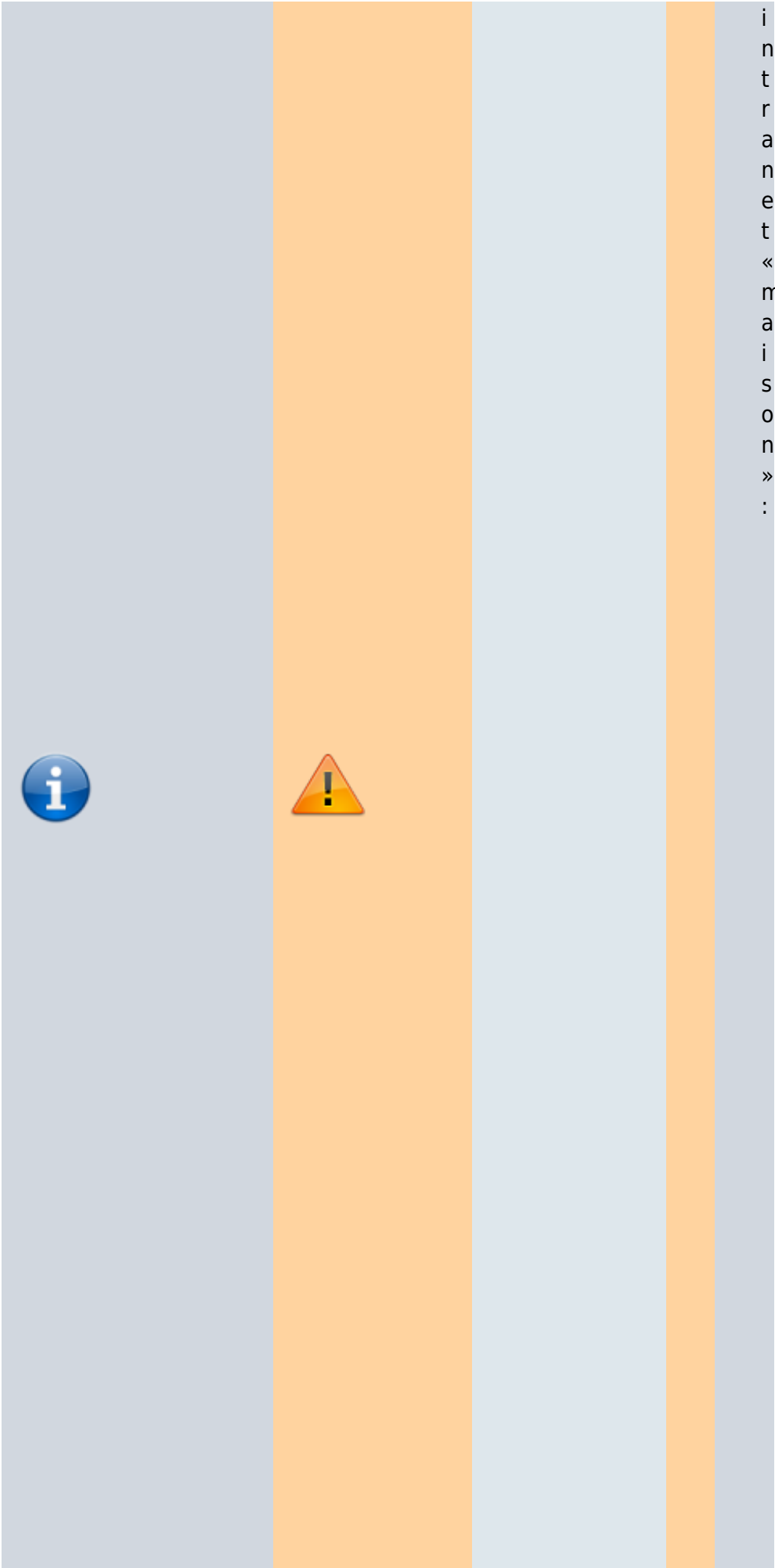
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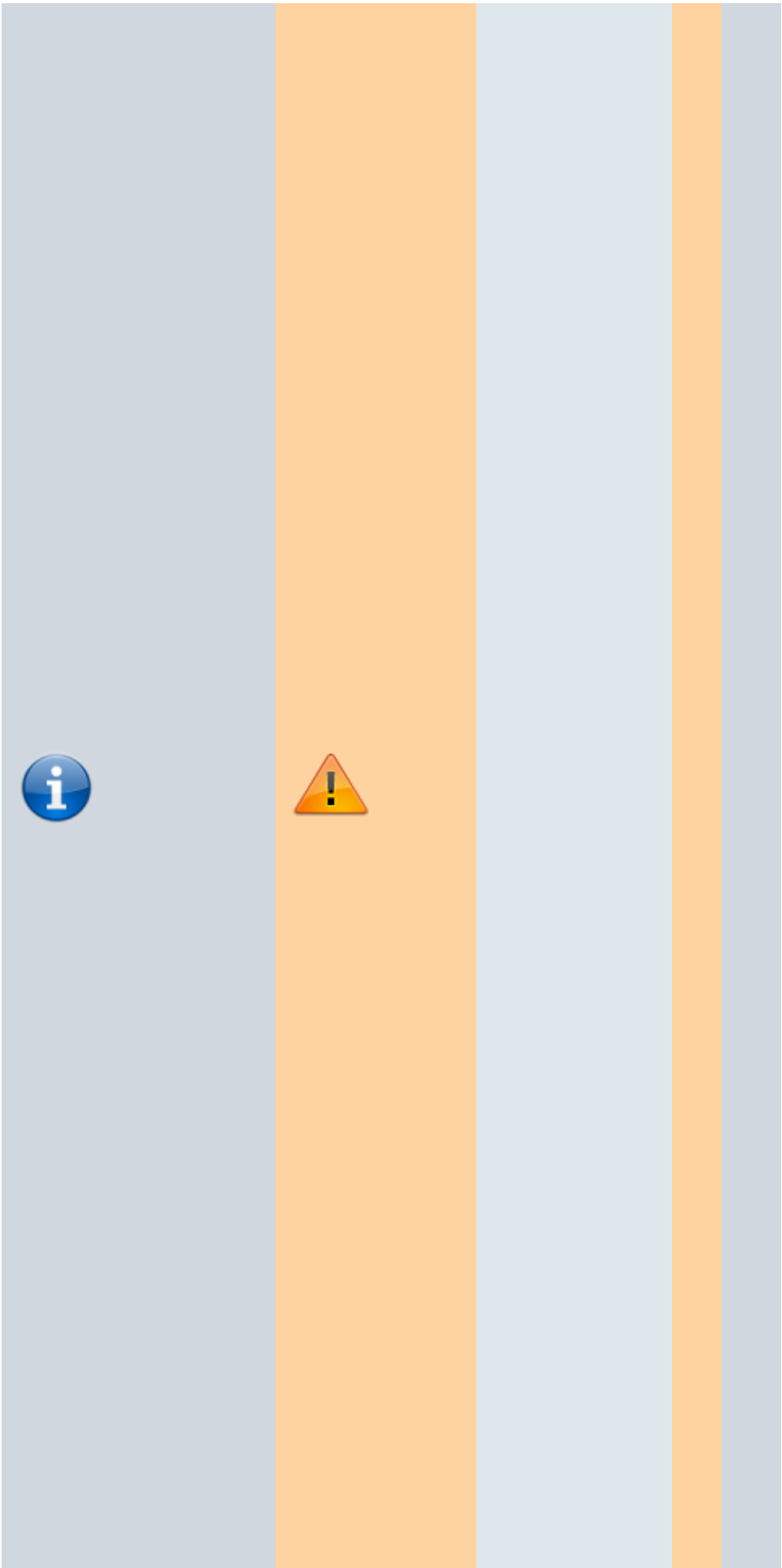


The image shows a vertical bar composed of four segments: light blue, orange, light blue, and orange. The first orange segment contains a blue circular information icon with a white 'i'. The second orange segment contains a yellow triangular warning icon with a black exclamation mark. To the right of the bar, the text 'n a m e s e r v e r 1 9 2 . 1 1 6 8 . 0 . 1 0 0 n a m e s e r v' is written vertically in a blue font.

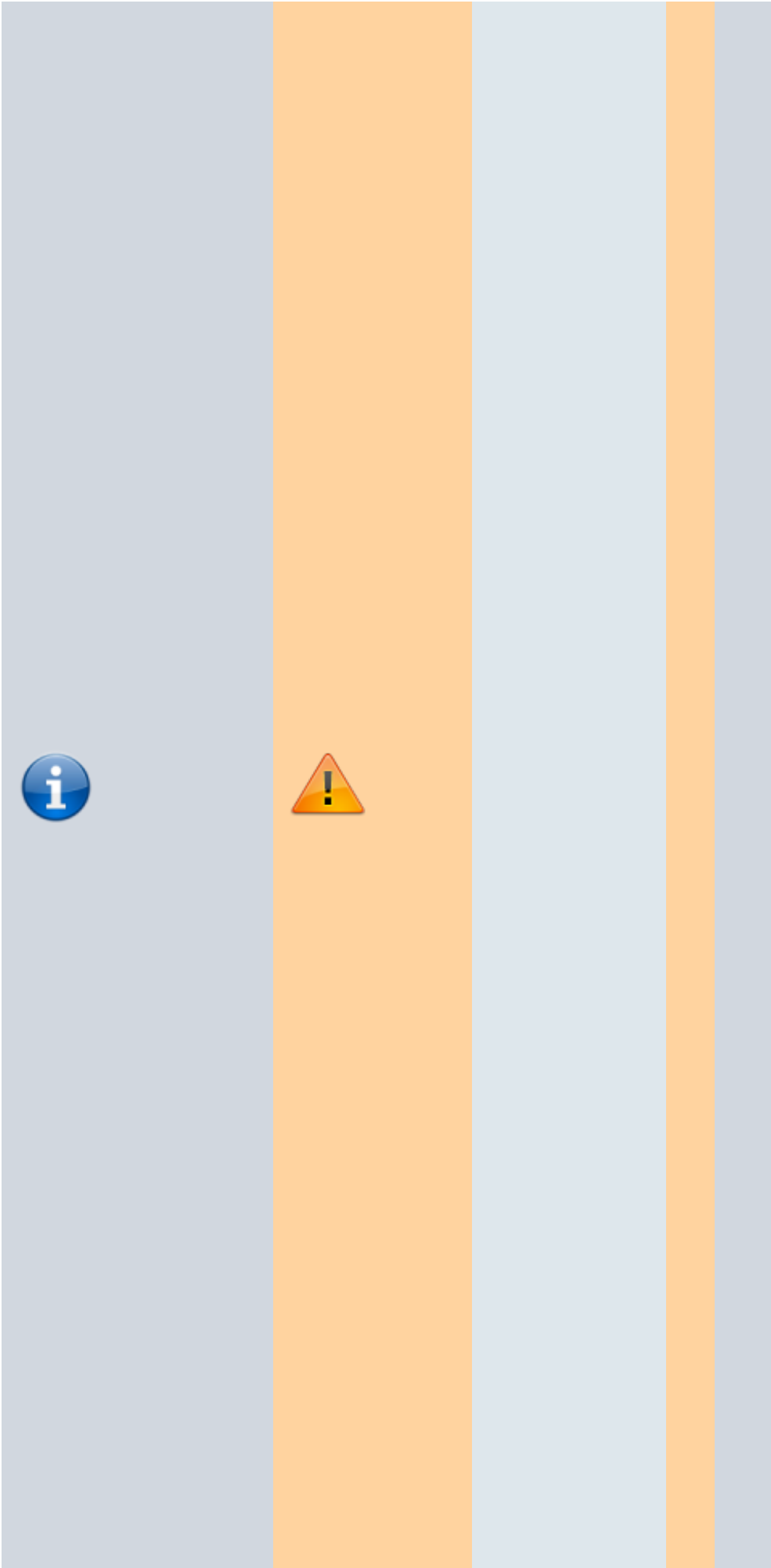


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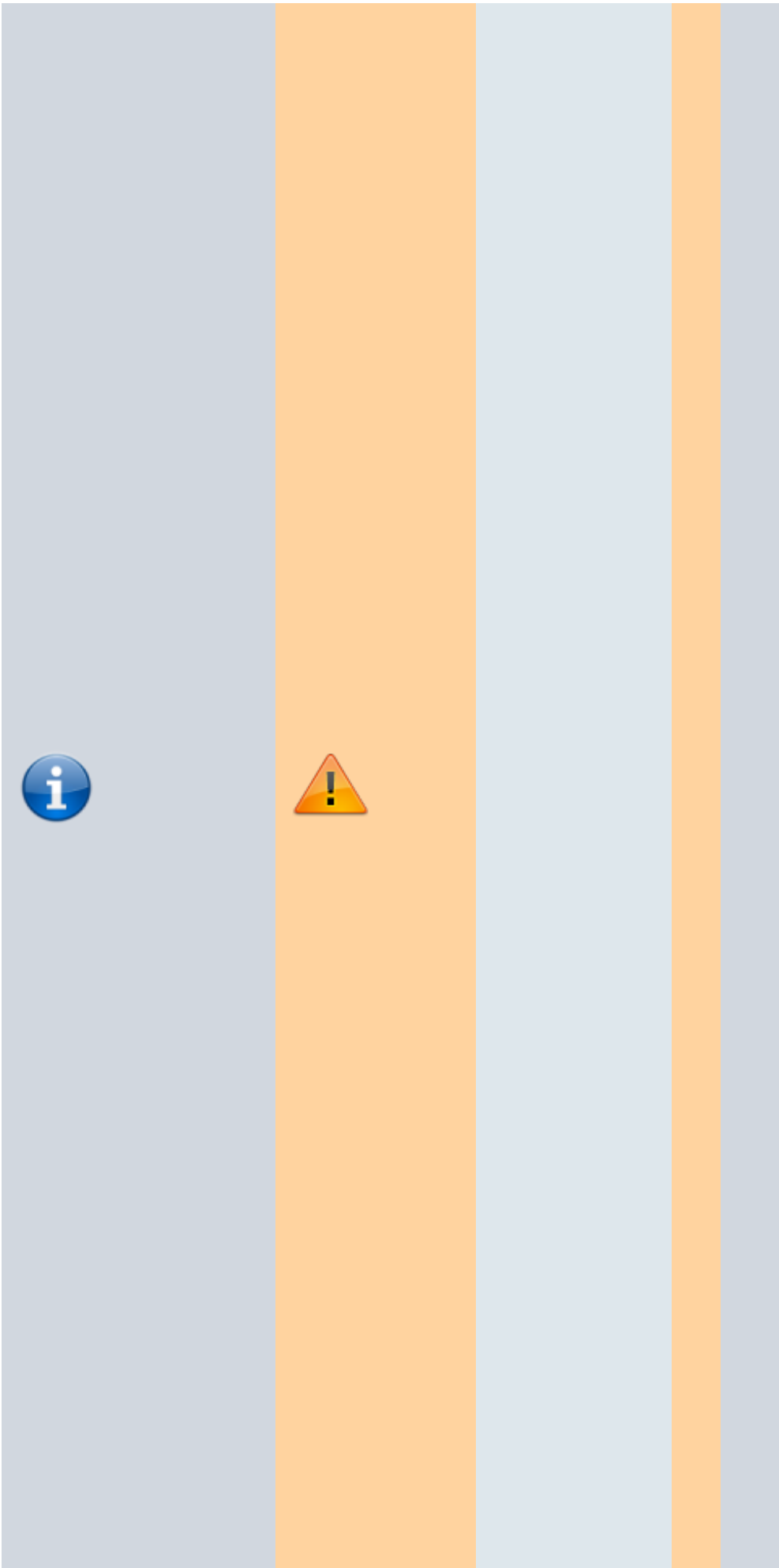




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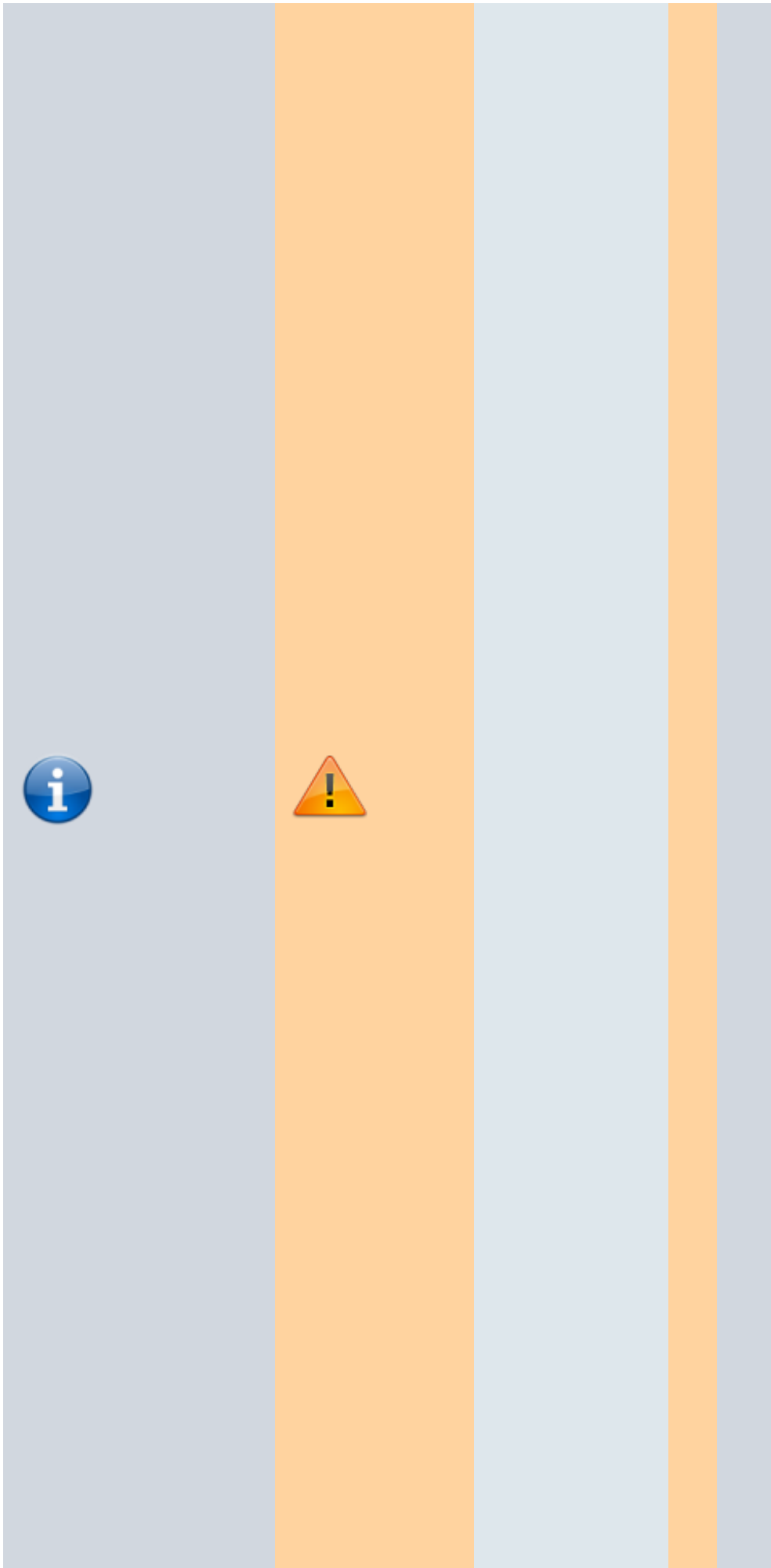
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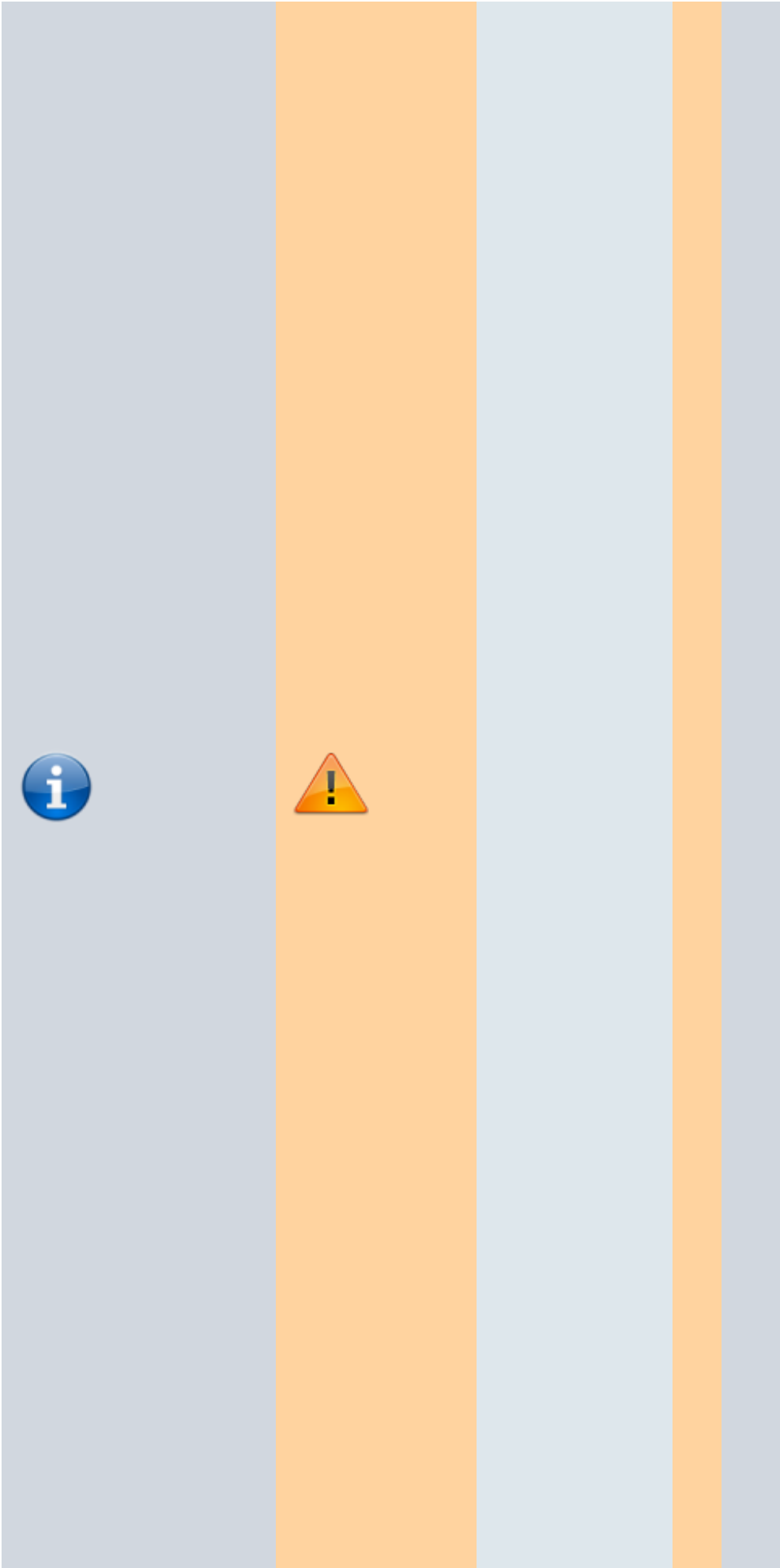
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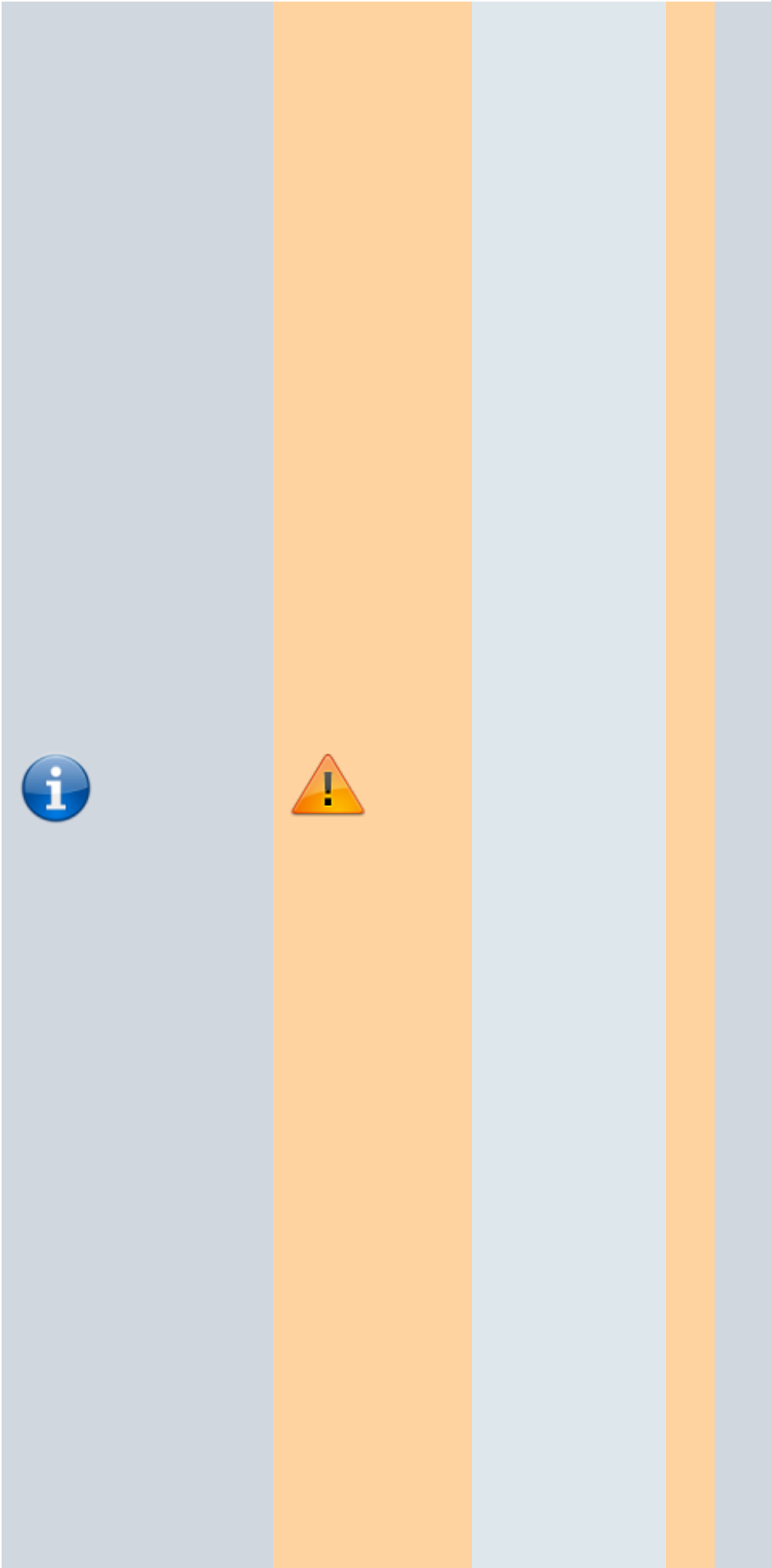
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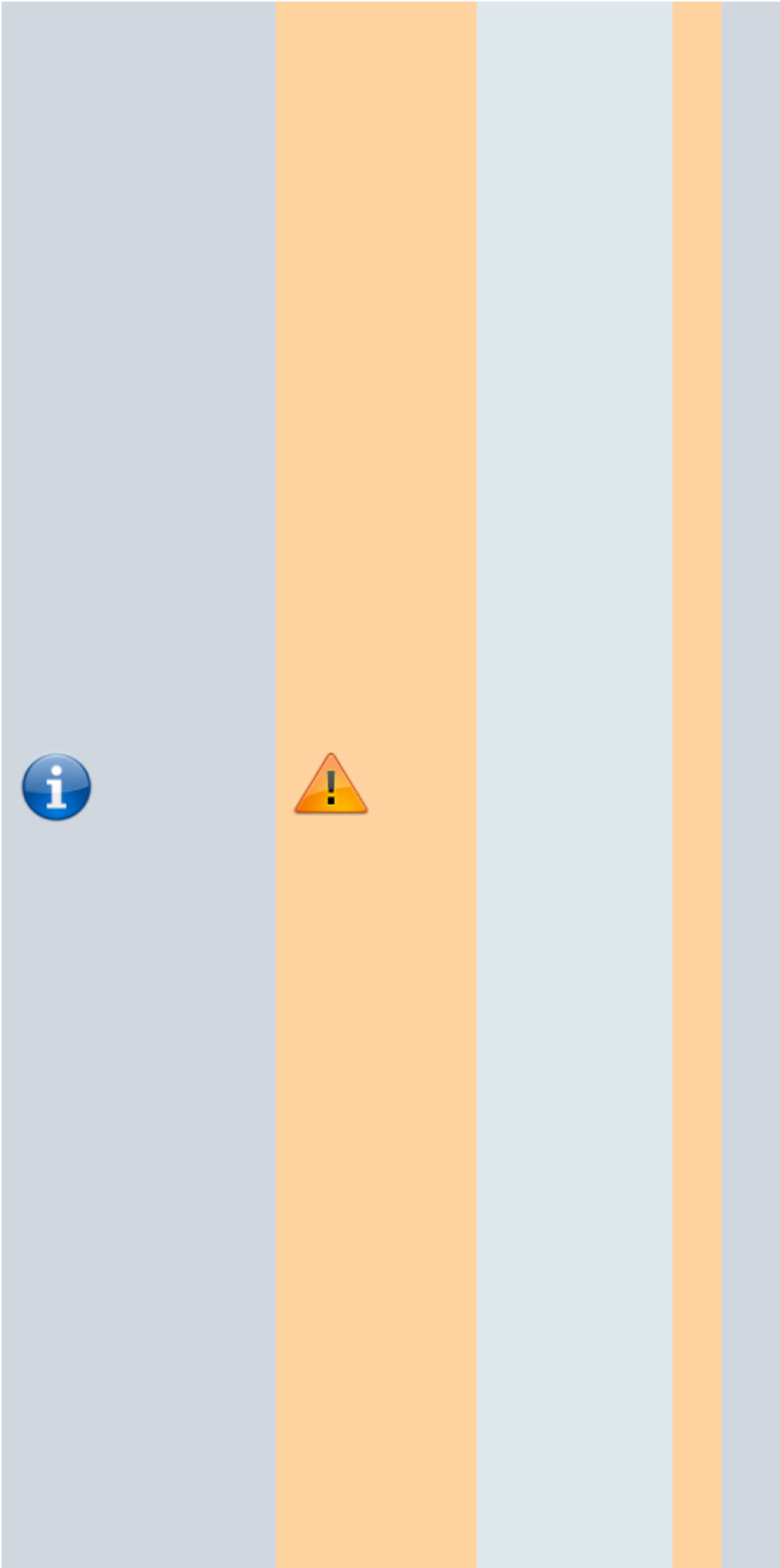
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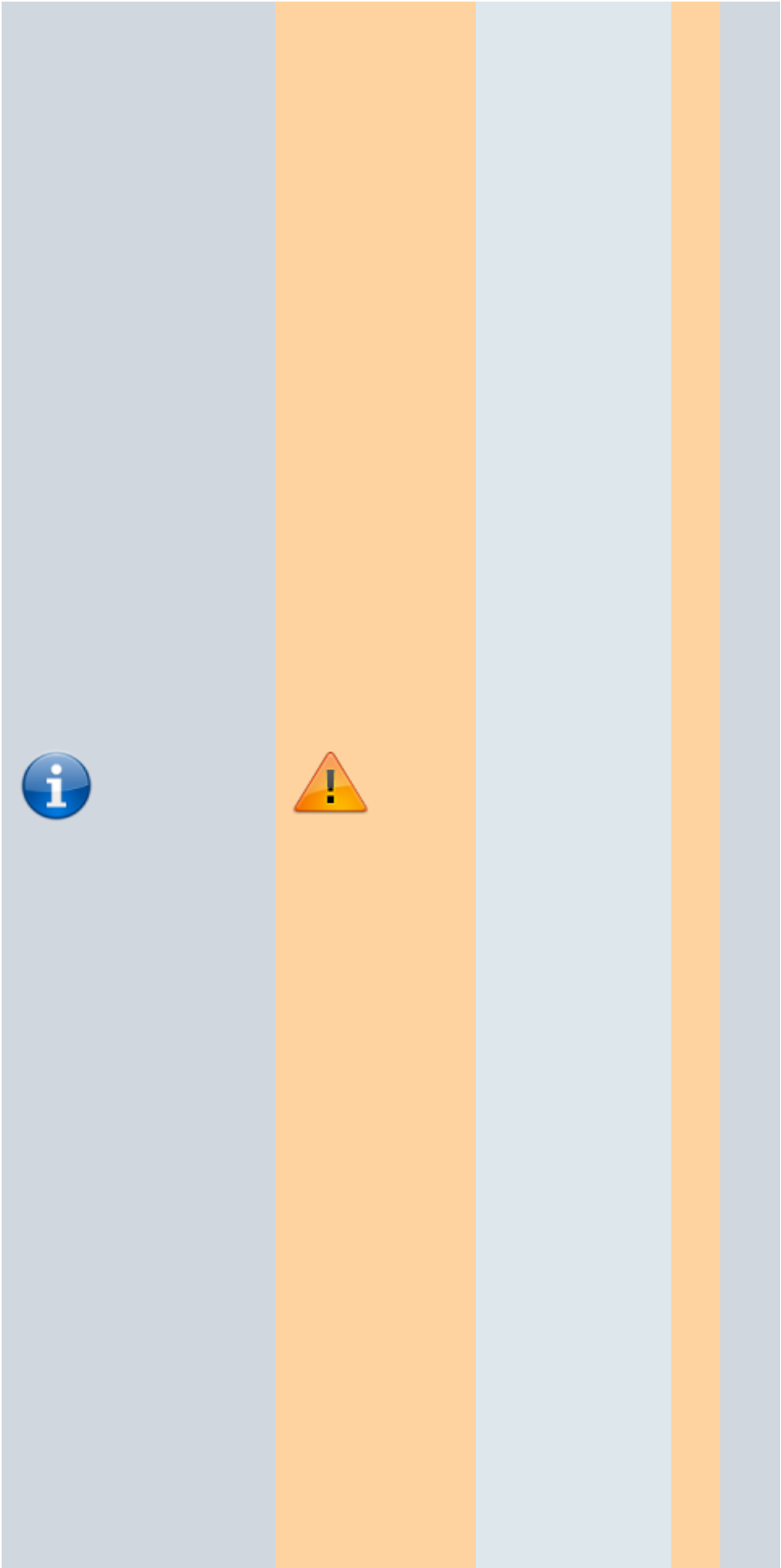




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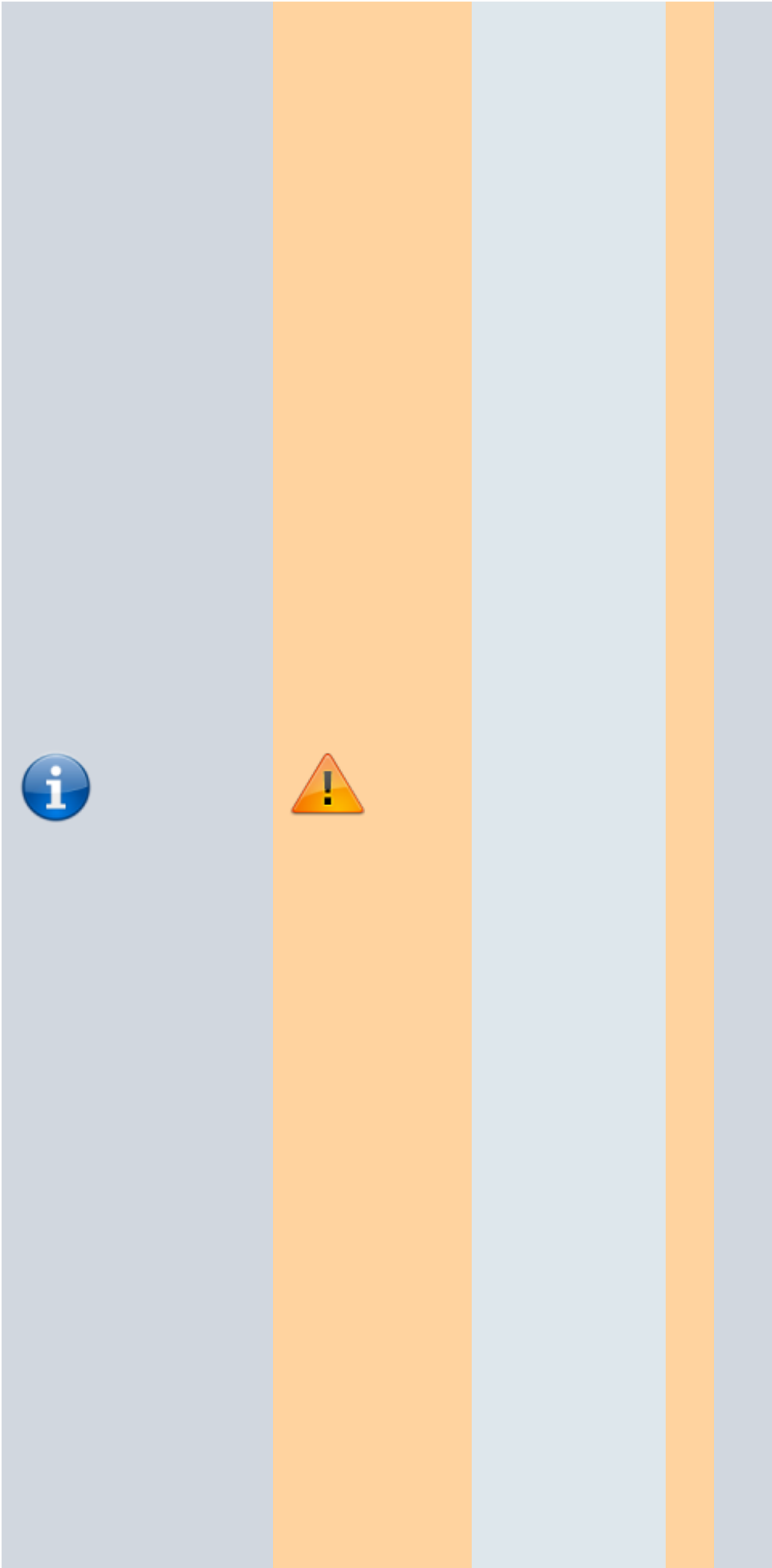
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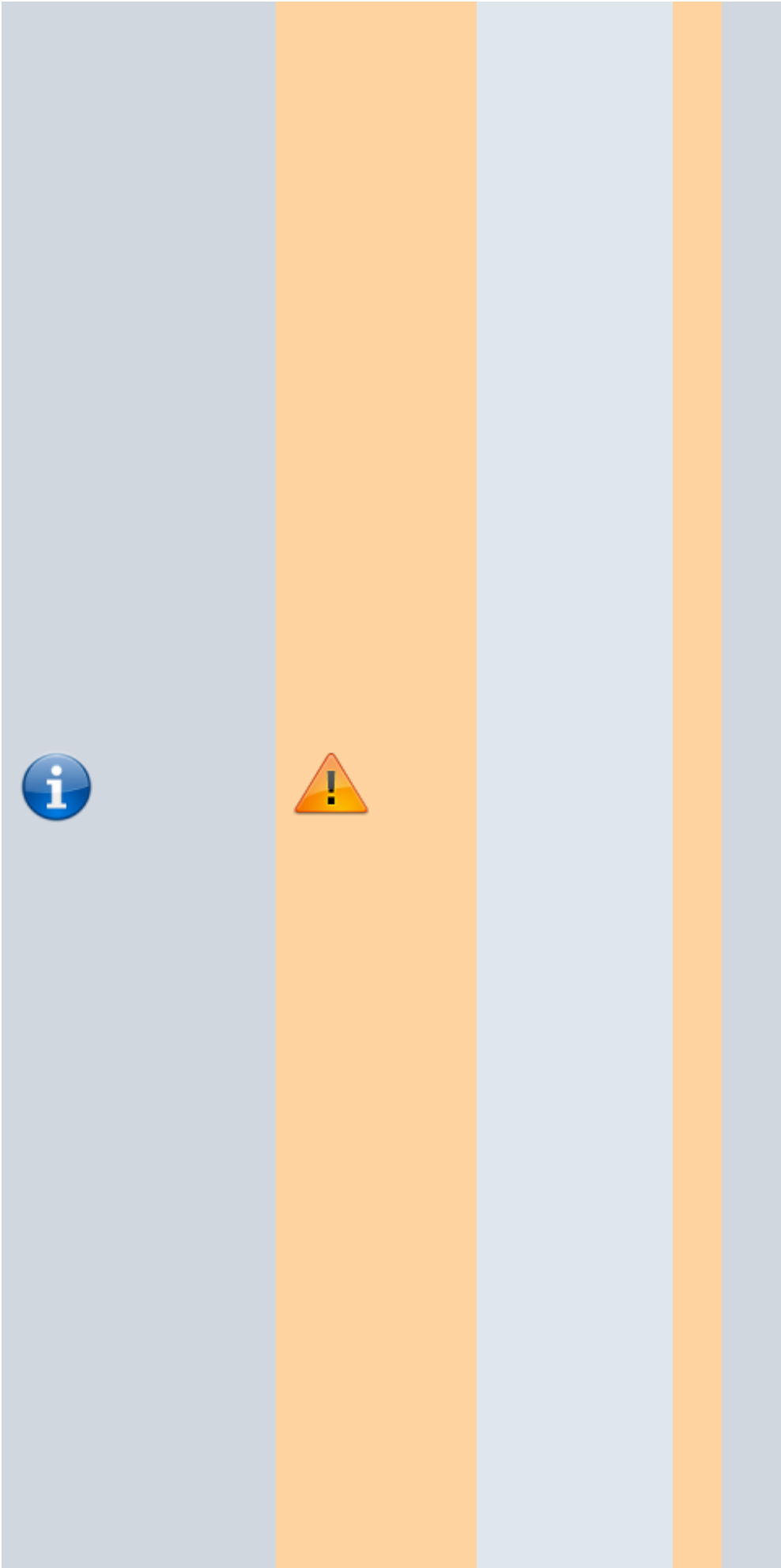


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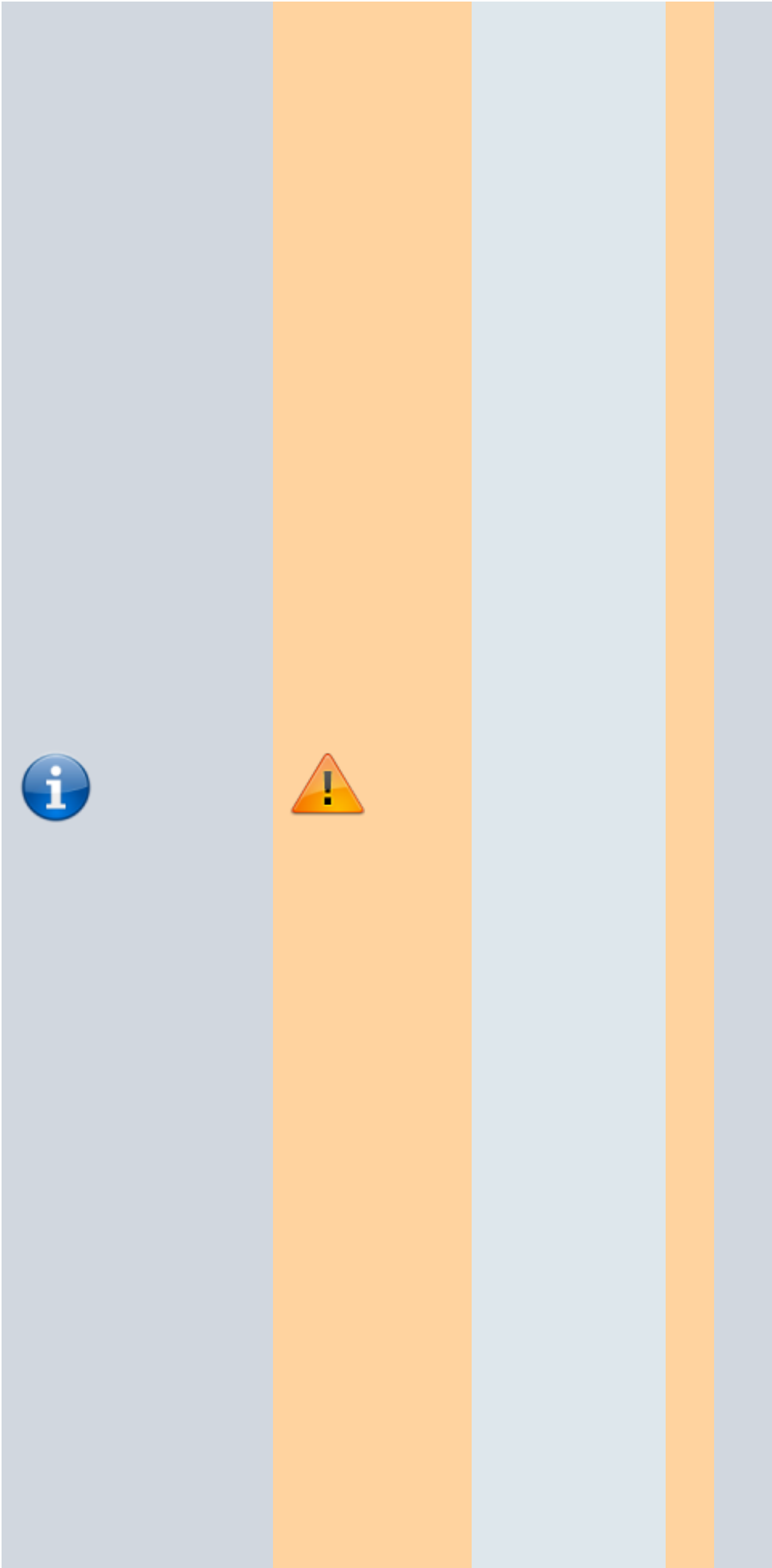
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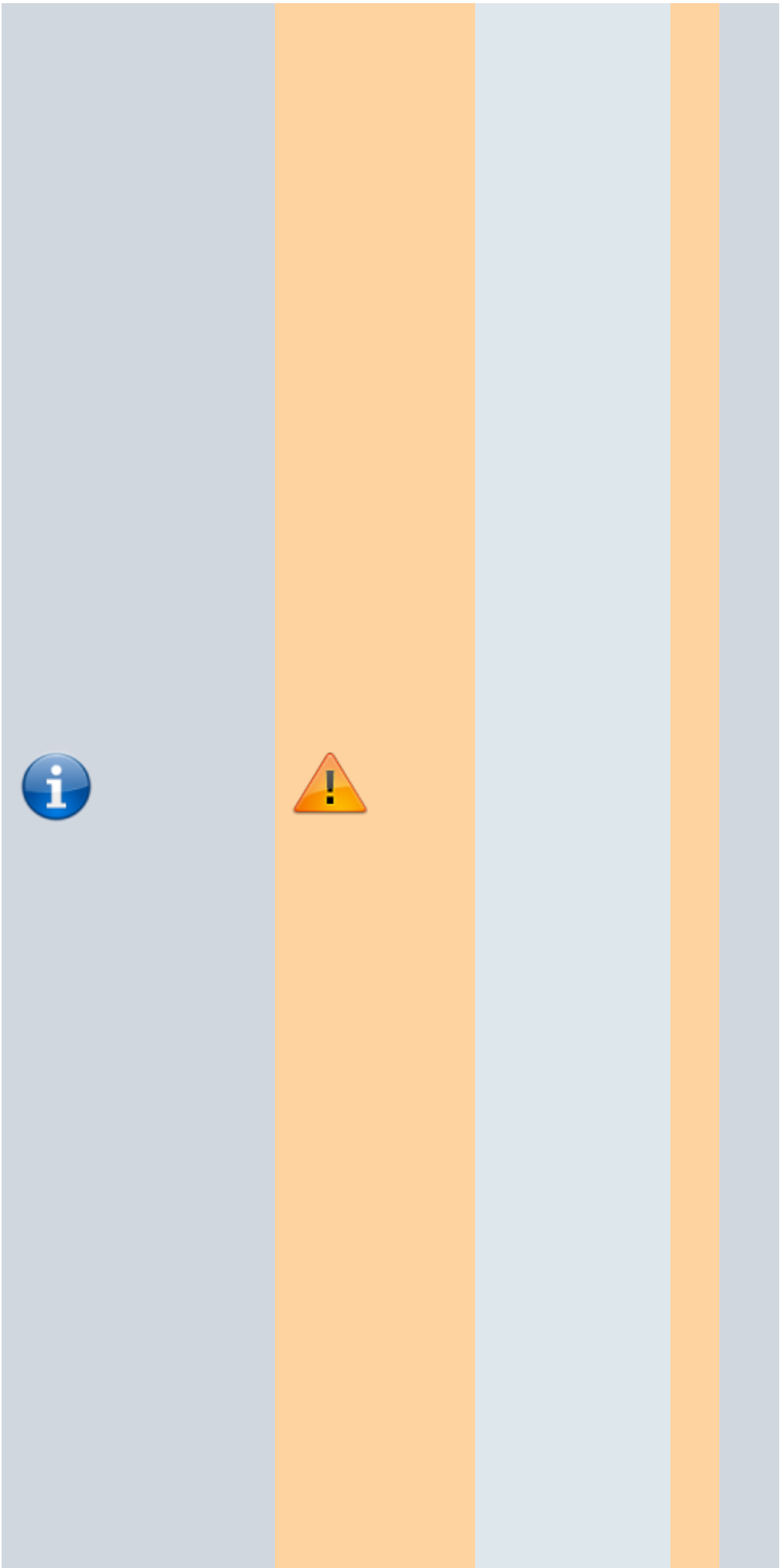
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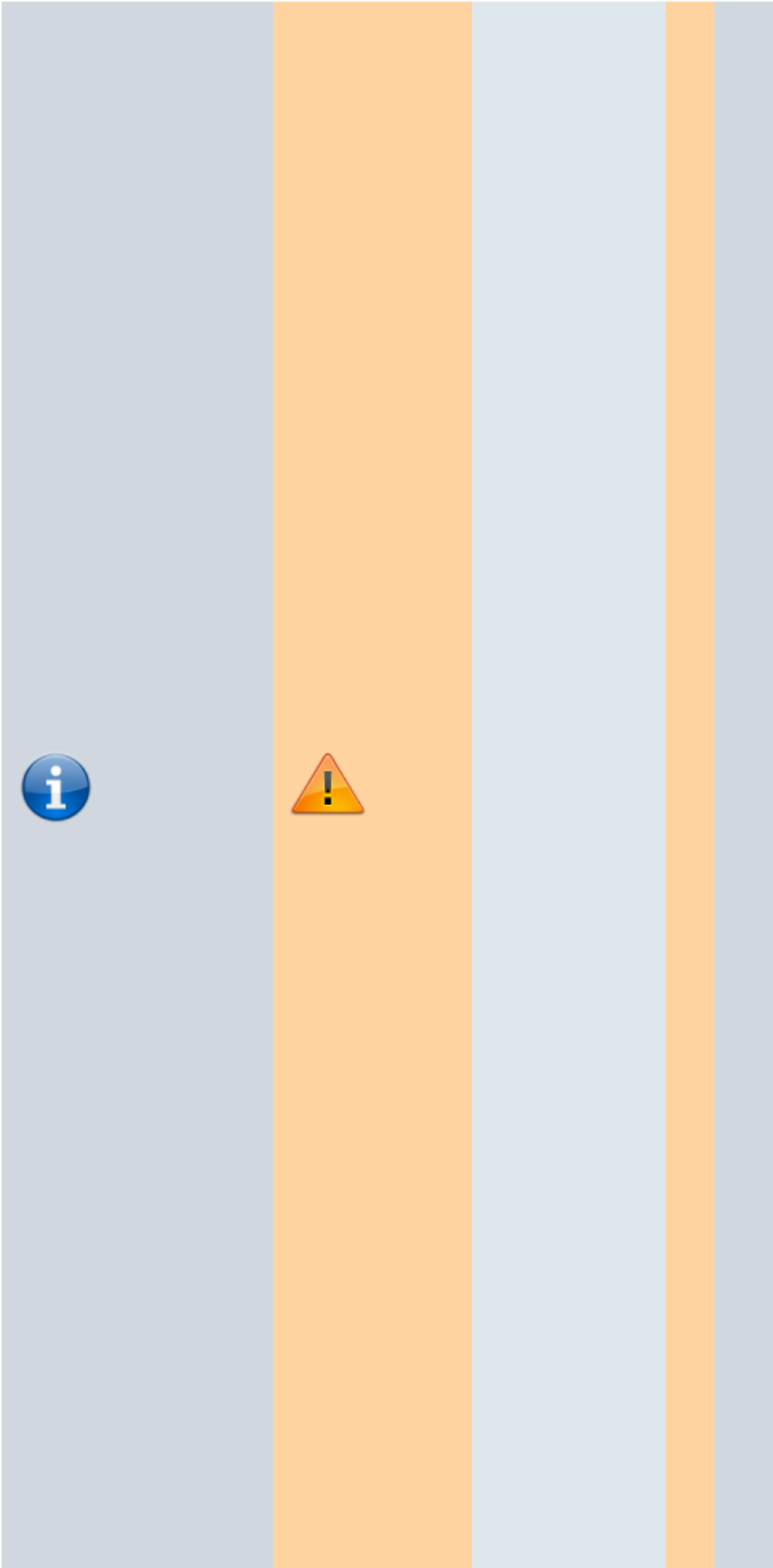
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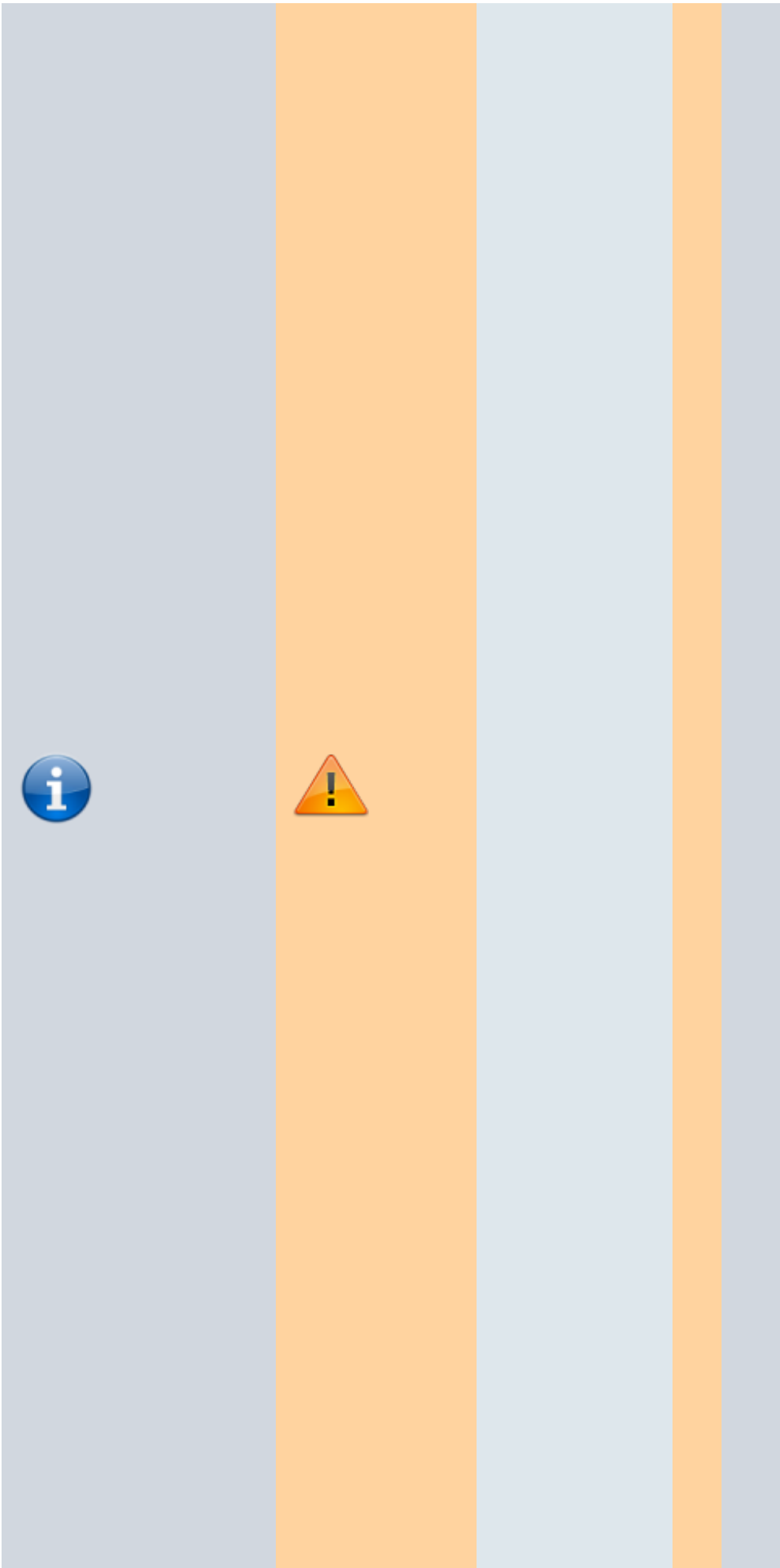
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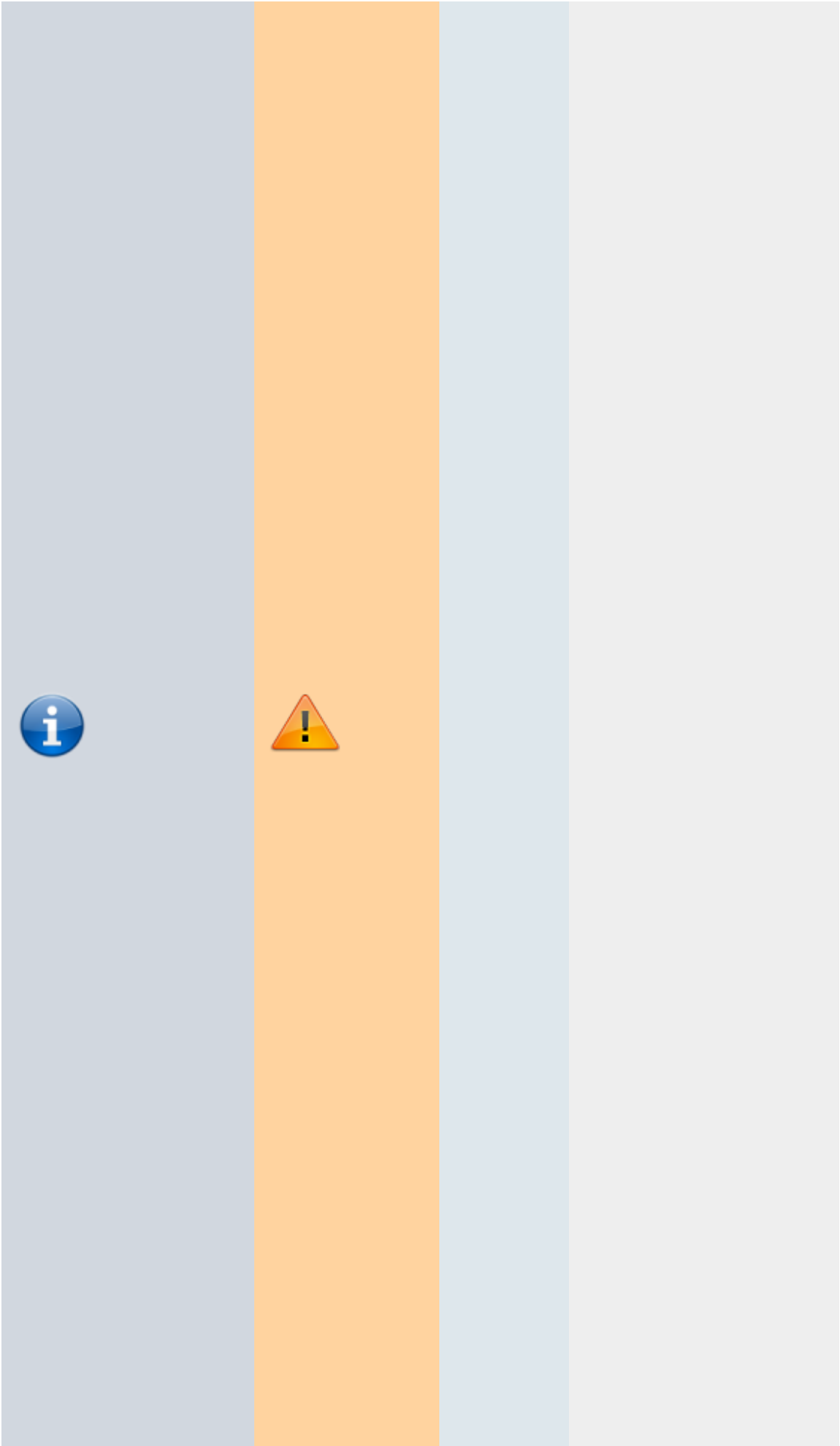
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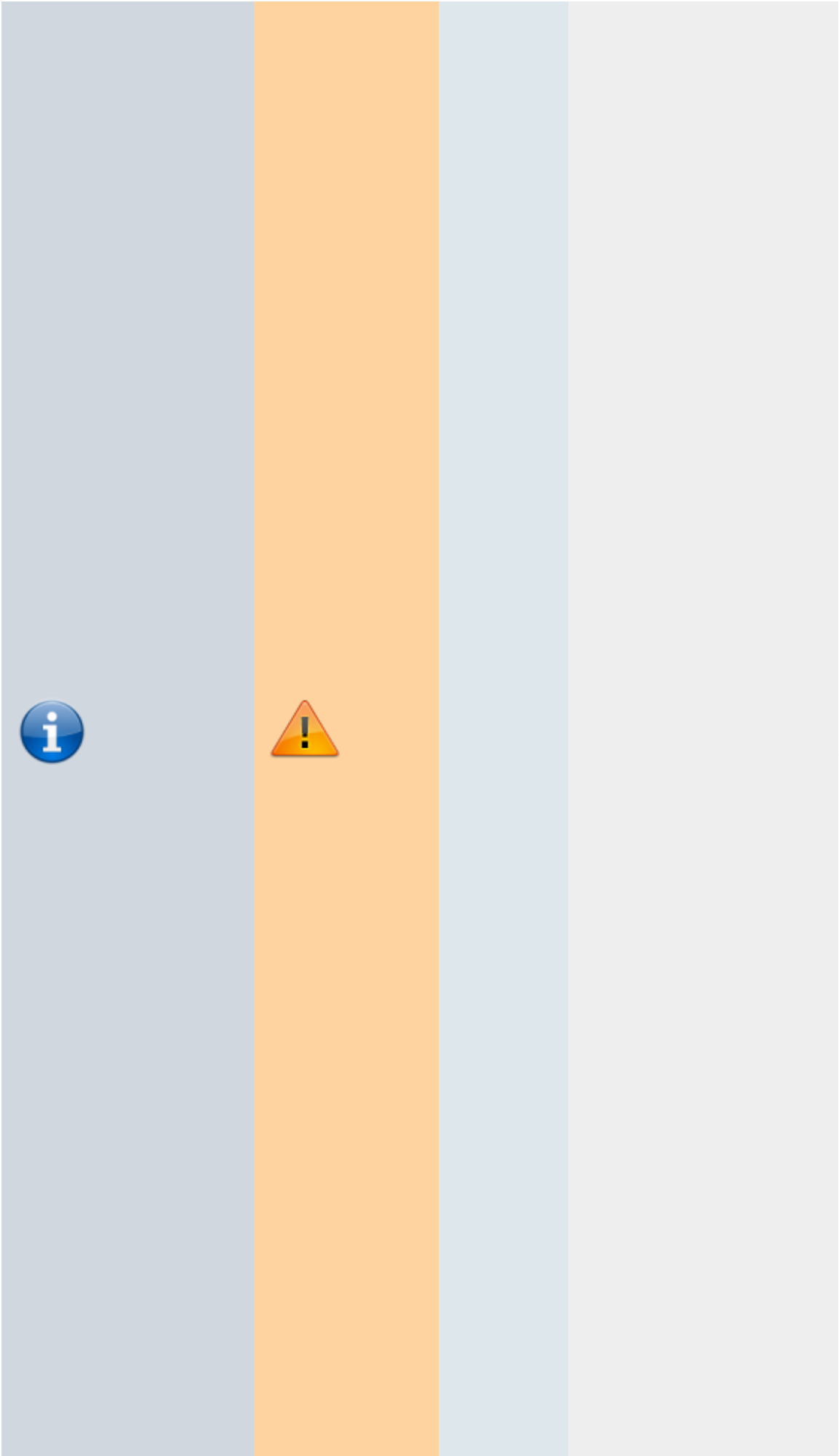
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The image shows a vertical bar composed of four distinct colored sections. From left to right, the colors are light blue, orange, light blue, and light grey. In the first light blue section, there is a circular blue icon with a white lowercase letter 'i', representing information. In the orange section, there is a triangular warning icon with a black exclamation mark inside. The light grey section on the far right contains vertical text that reads: 'il l a b l e o n y o u r s y s t e m # a n d h o w t o a c t i v a t e t h e m . F o r m o r e i n f'.

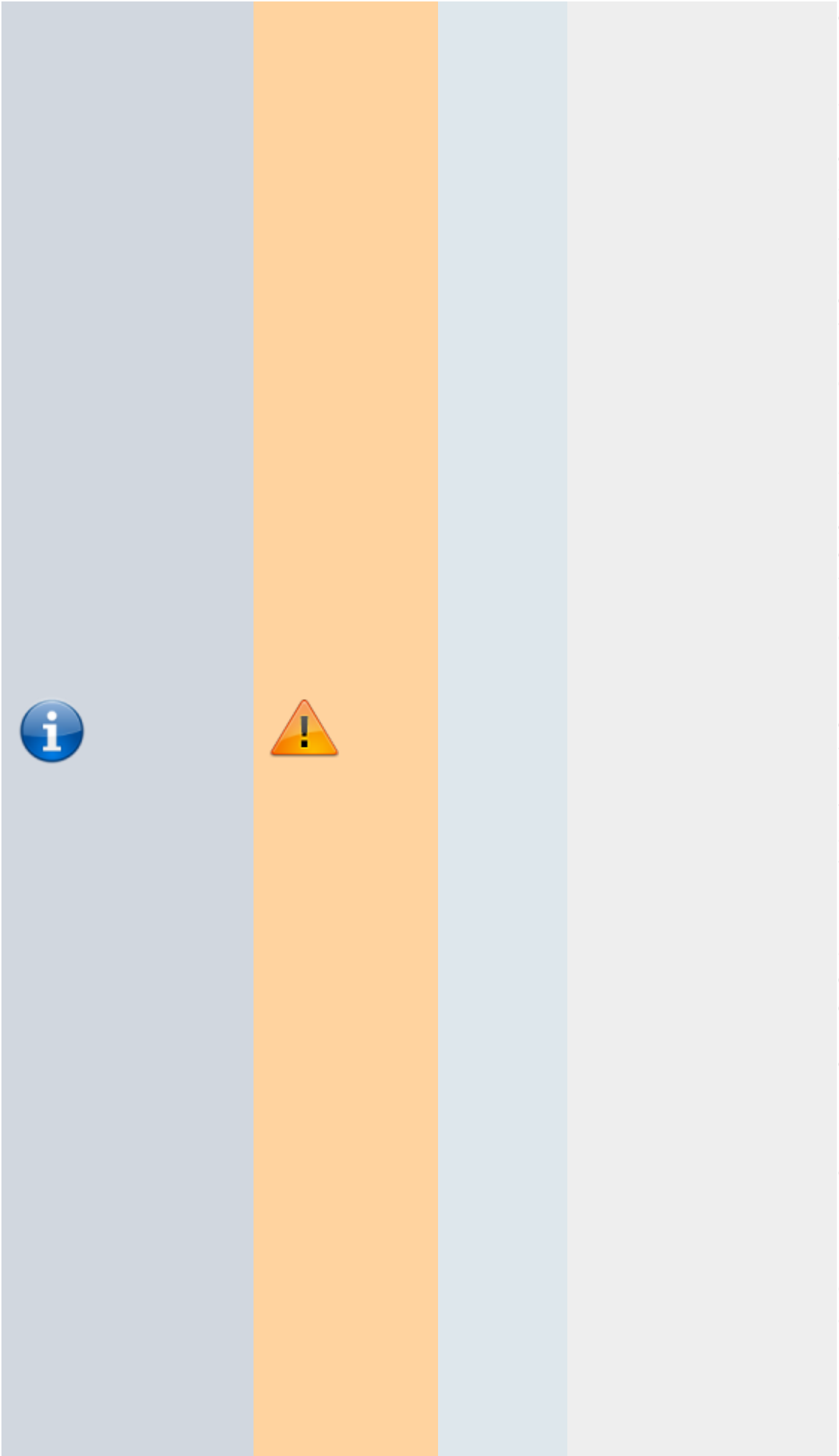


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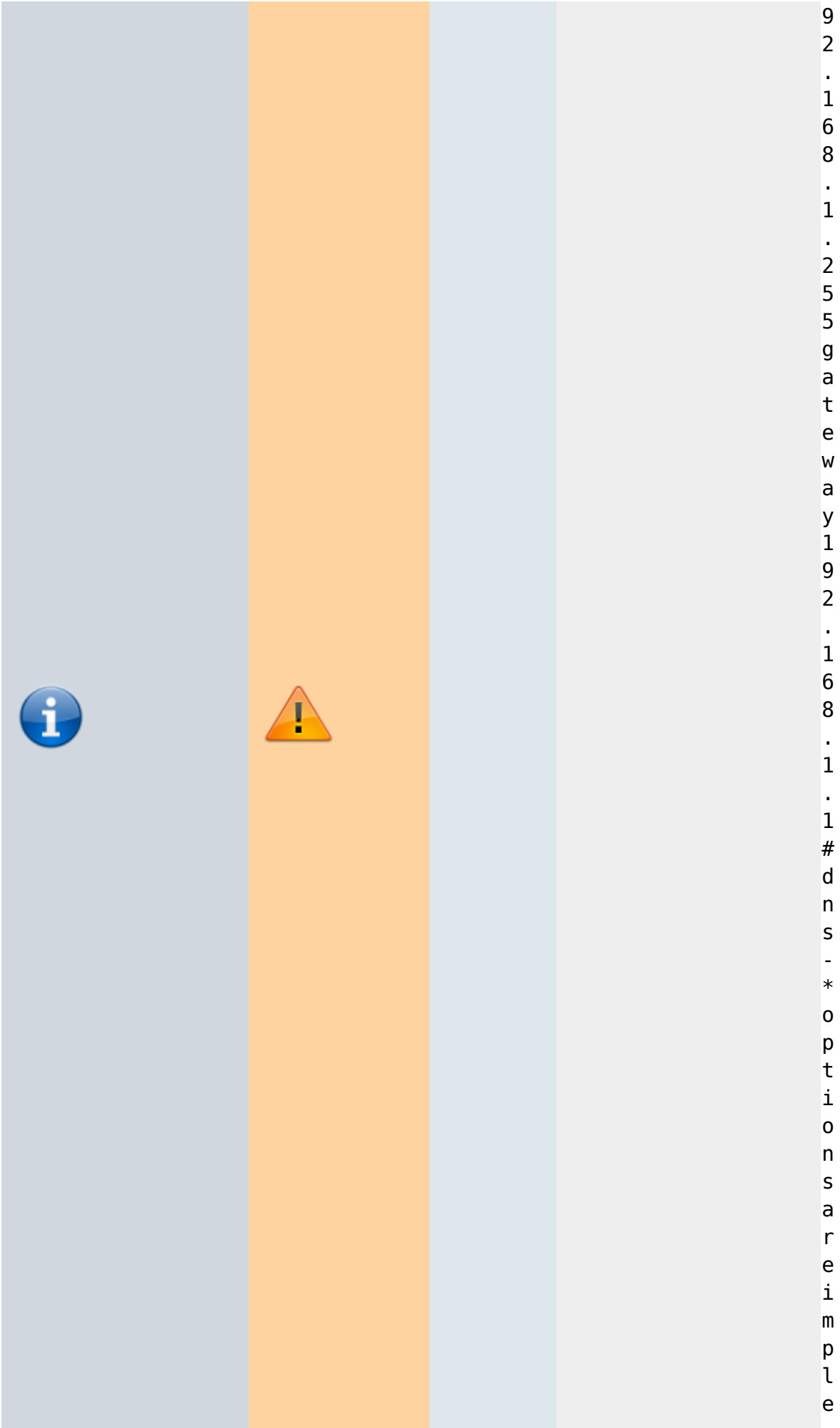
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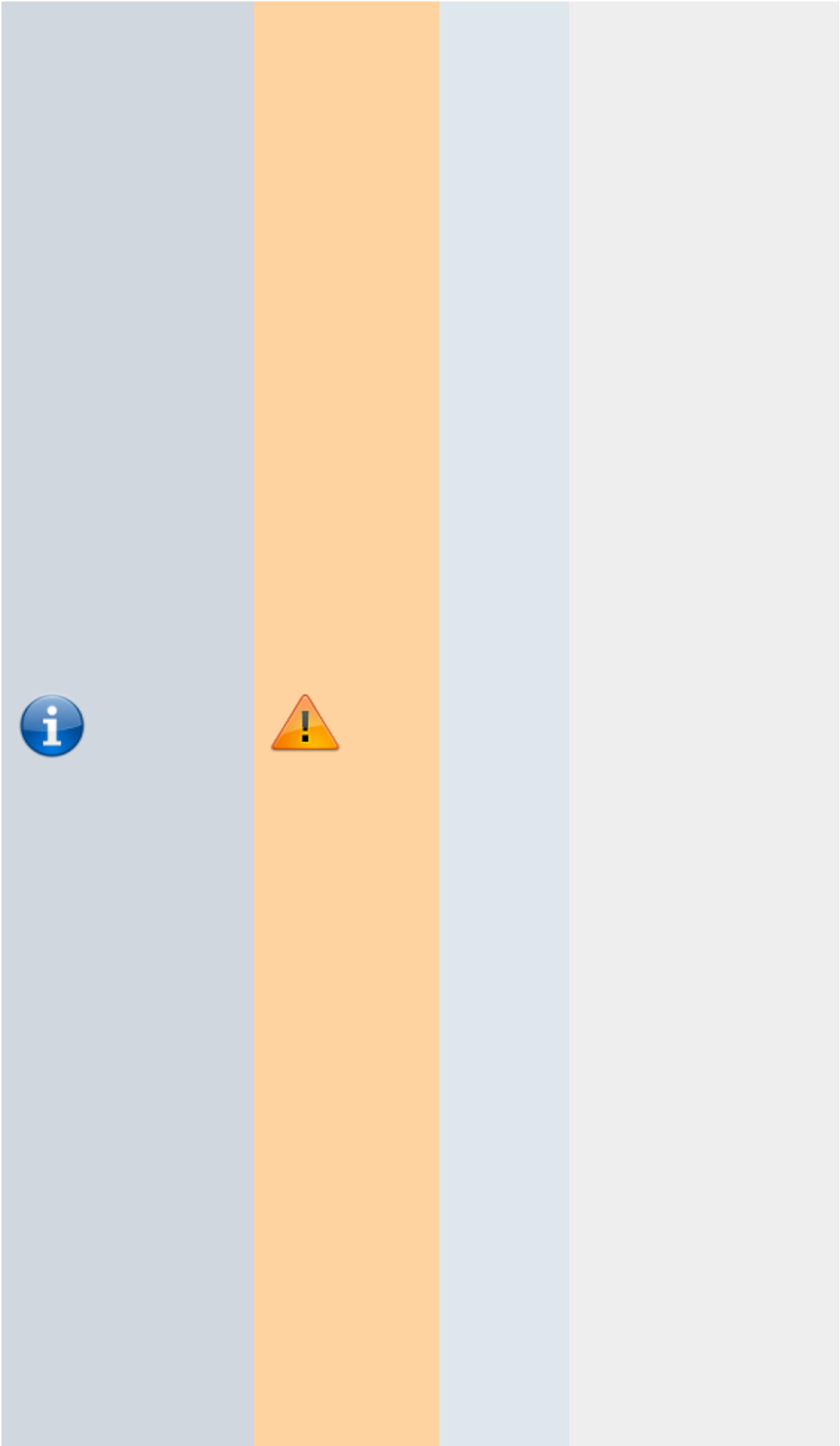
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The image shows a vertical bar composed of four distinct colored sections. From left to right, the colors are light blue, orange, light blue, and light grey. The orange section is the widest and contains a yellow warning triangle icon with a black exclamation mark. The first light blue section contains a blue circular icon with a white lowercase letter 'i'. The light grey section is the narrowest and contains the text 'ment ed by the res olv con f pac ka ge , i f i n s t a l l e d n s - n a m e s e' written vertically in a small, black, monospaced font.

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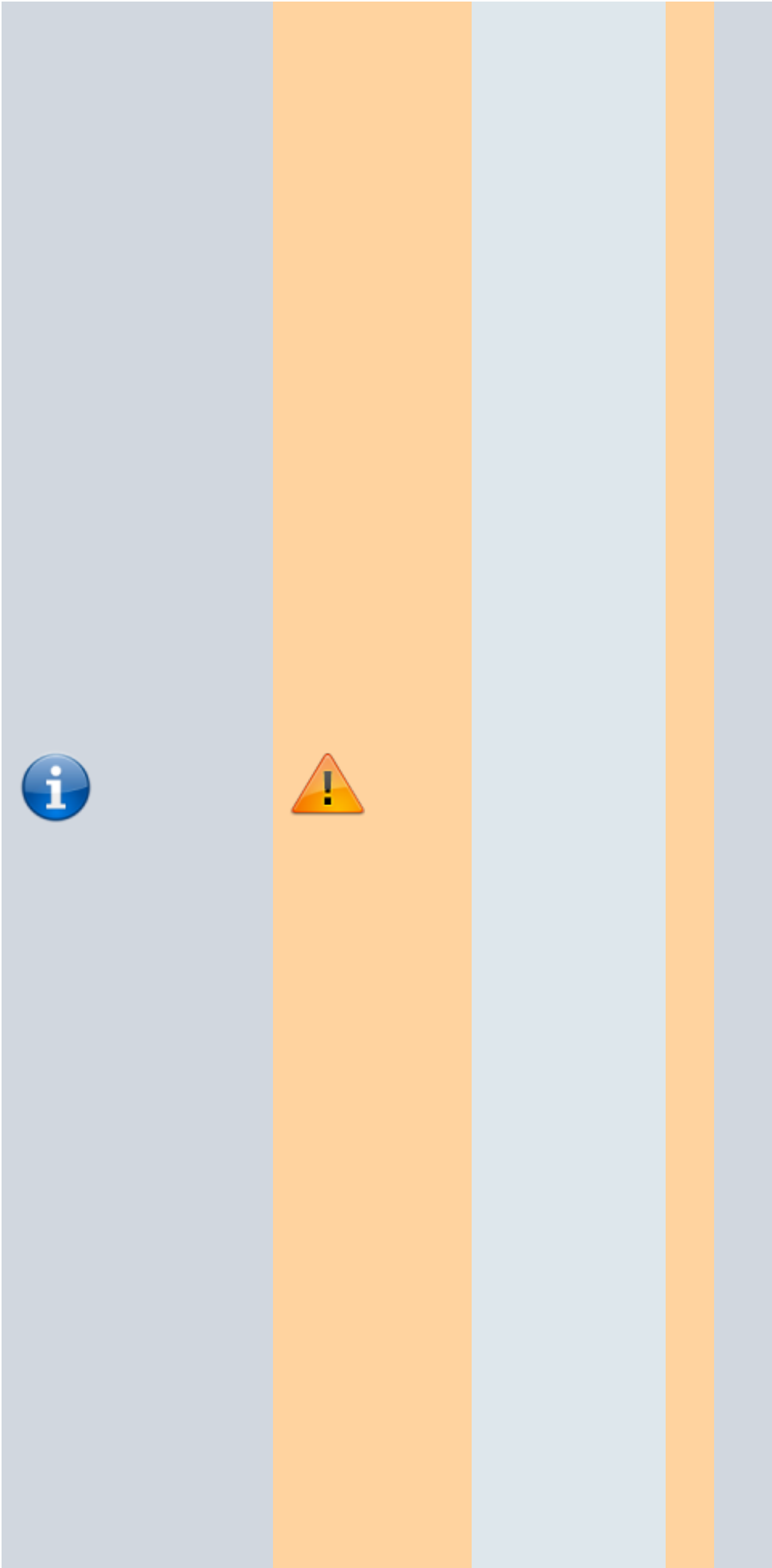
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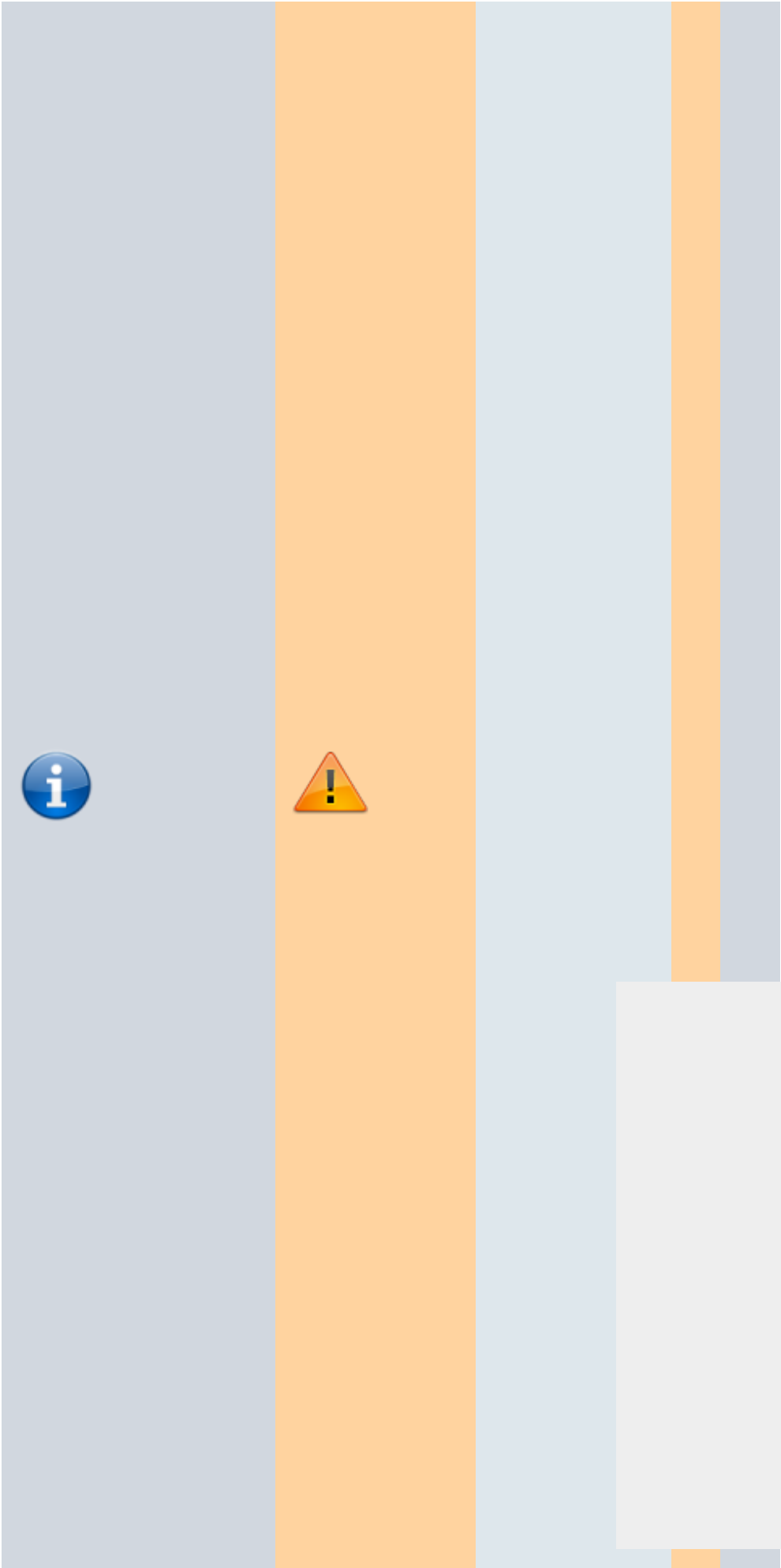
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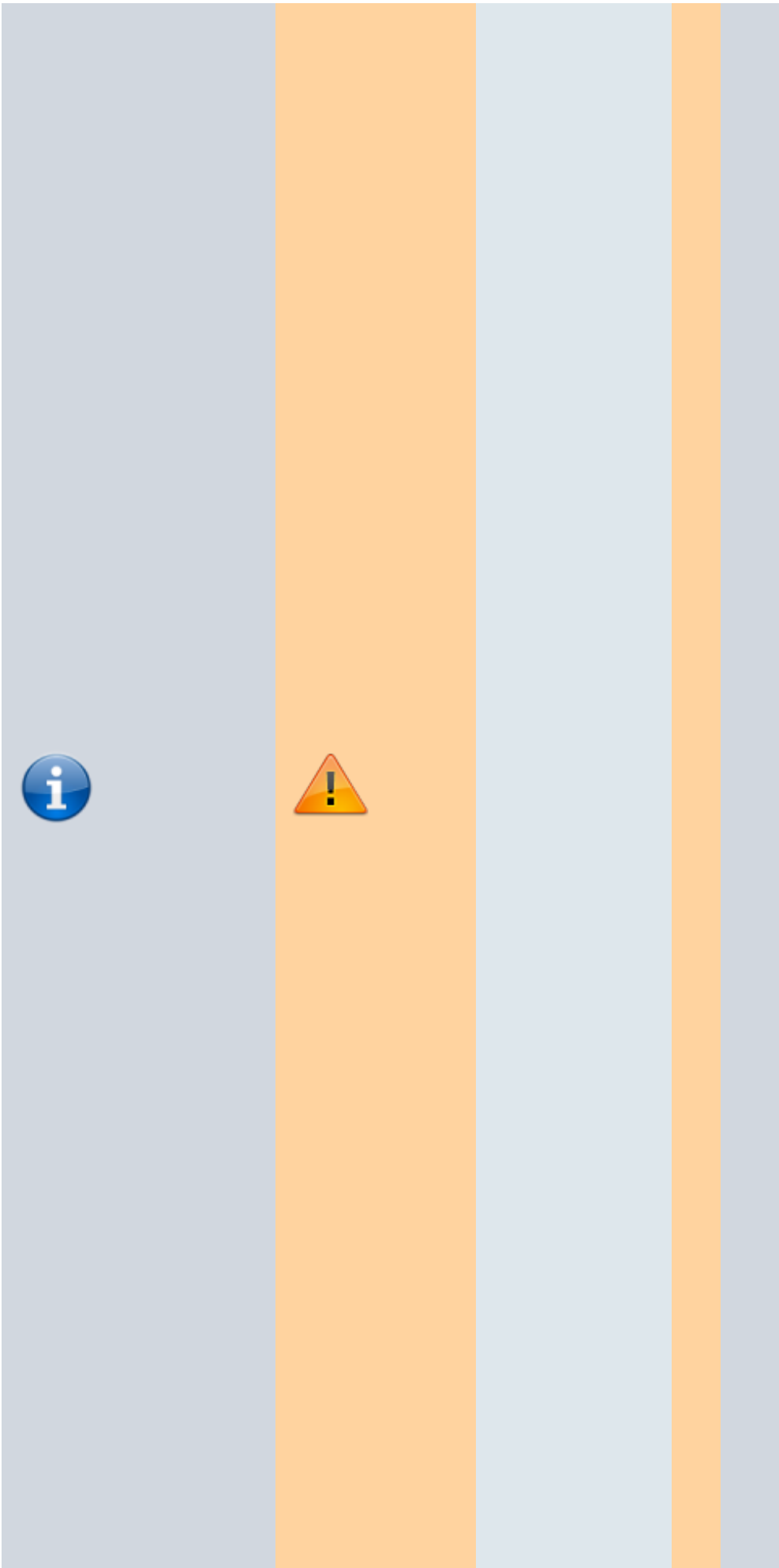
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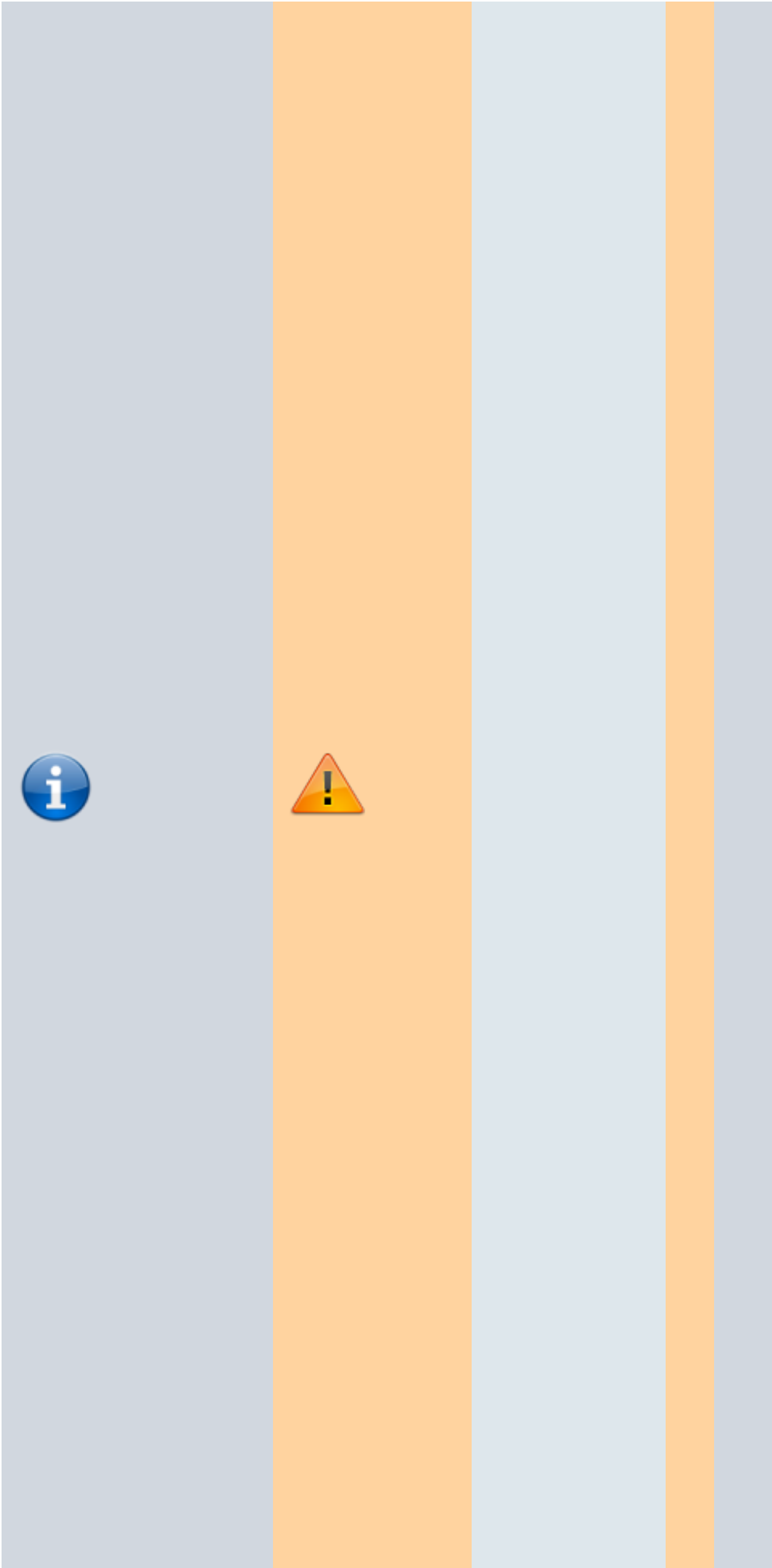


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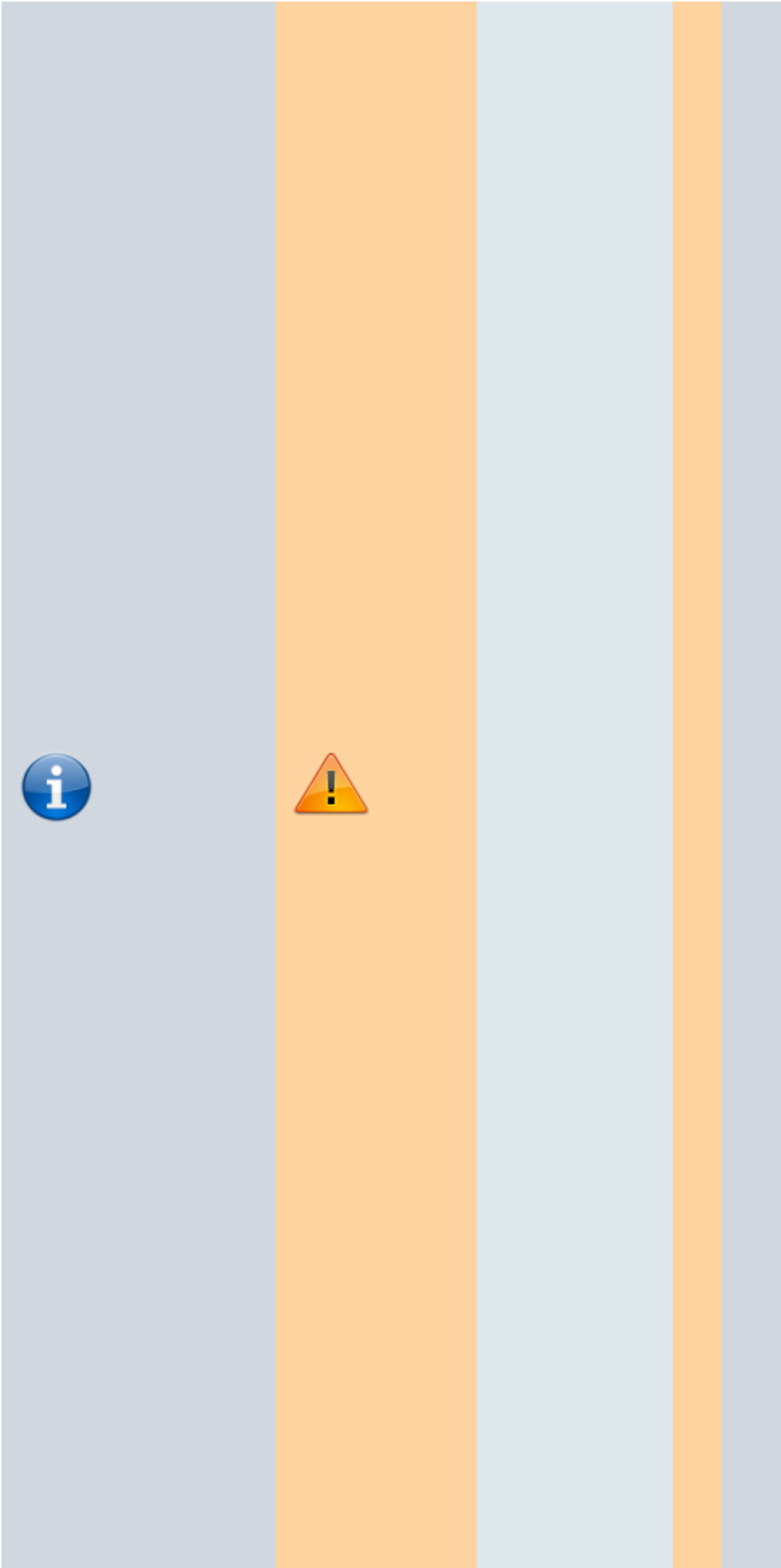
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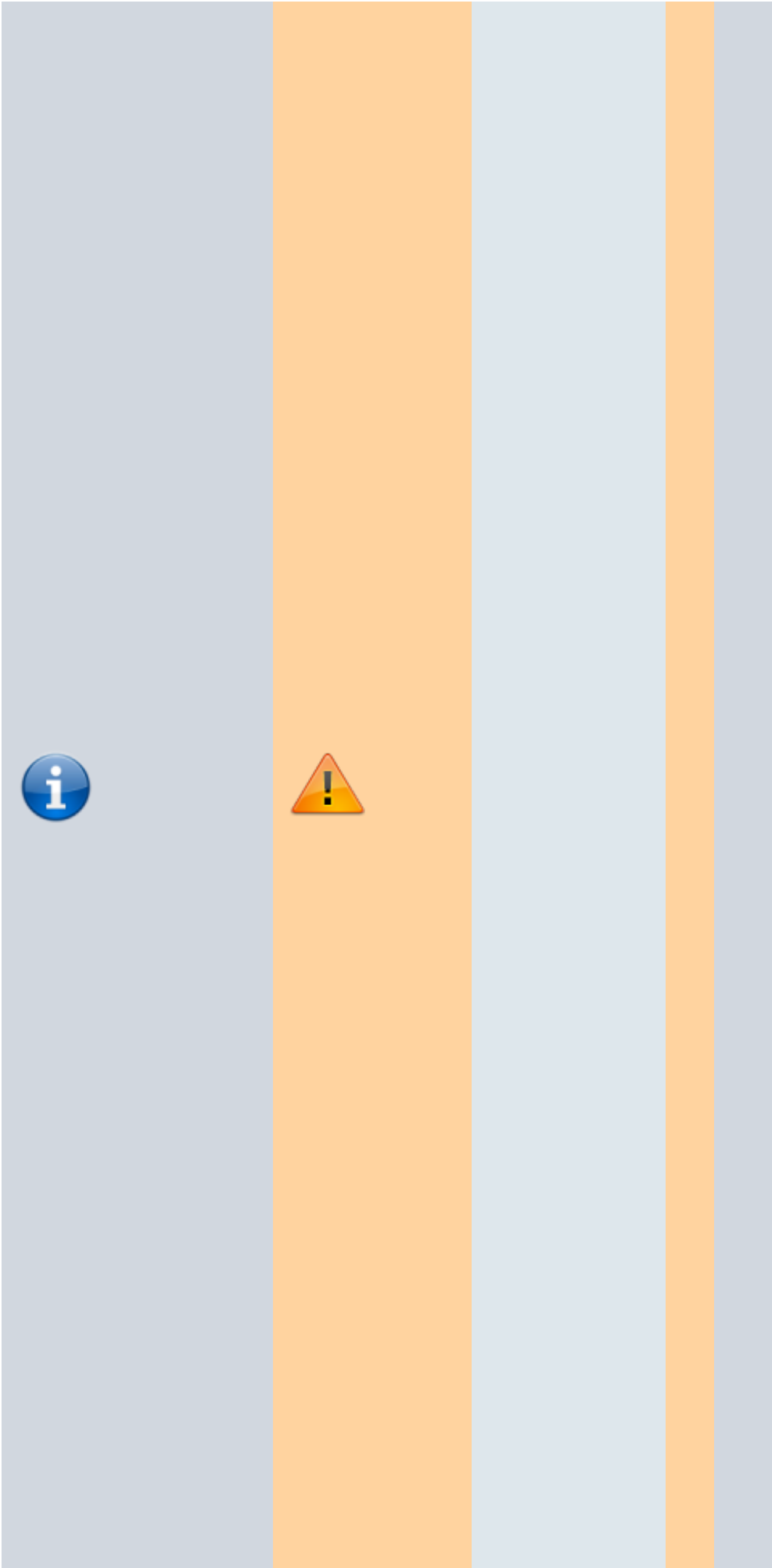
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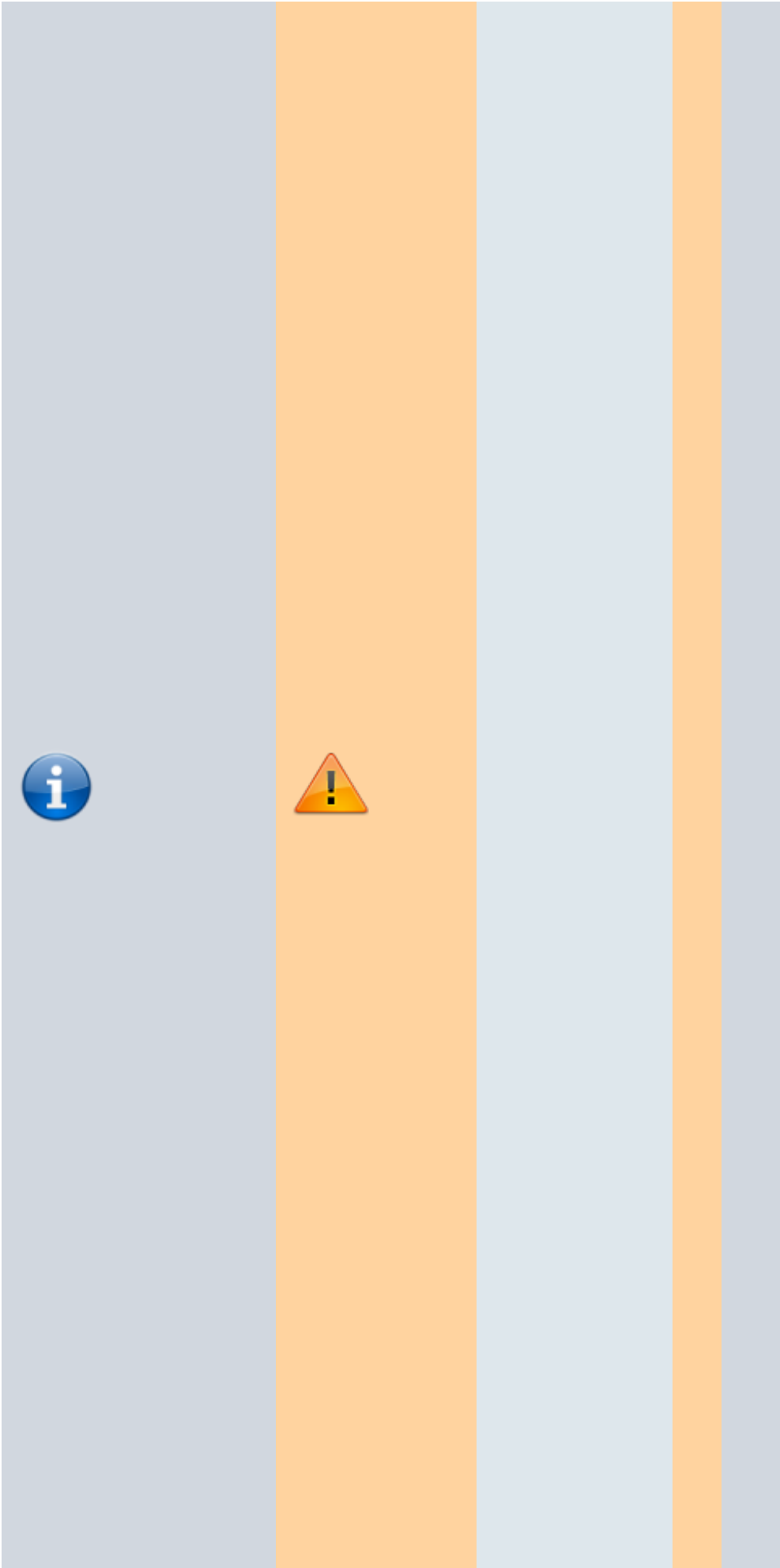
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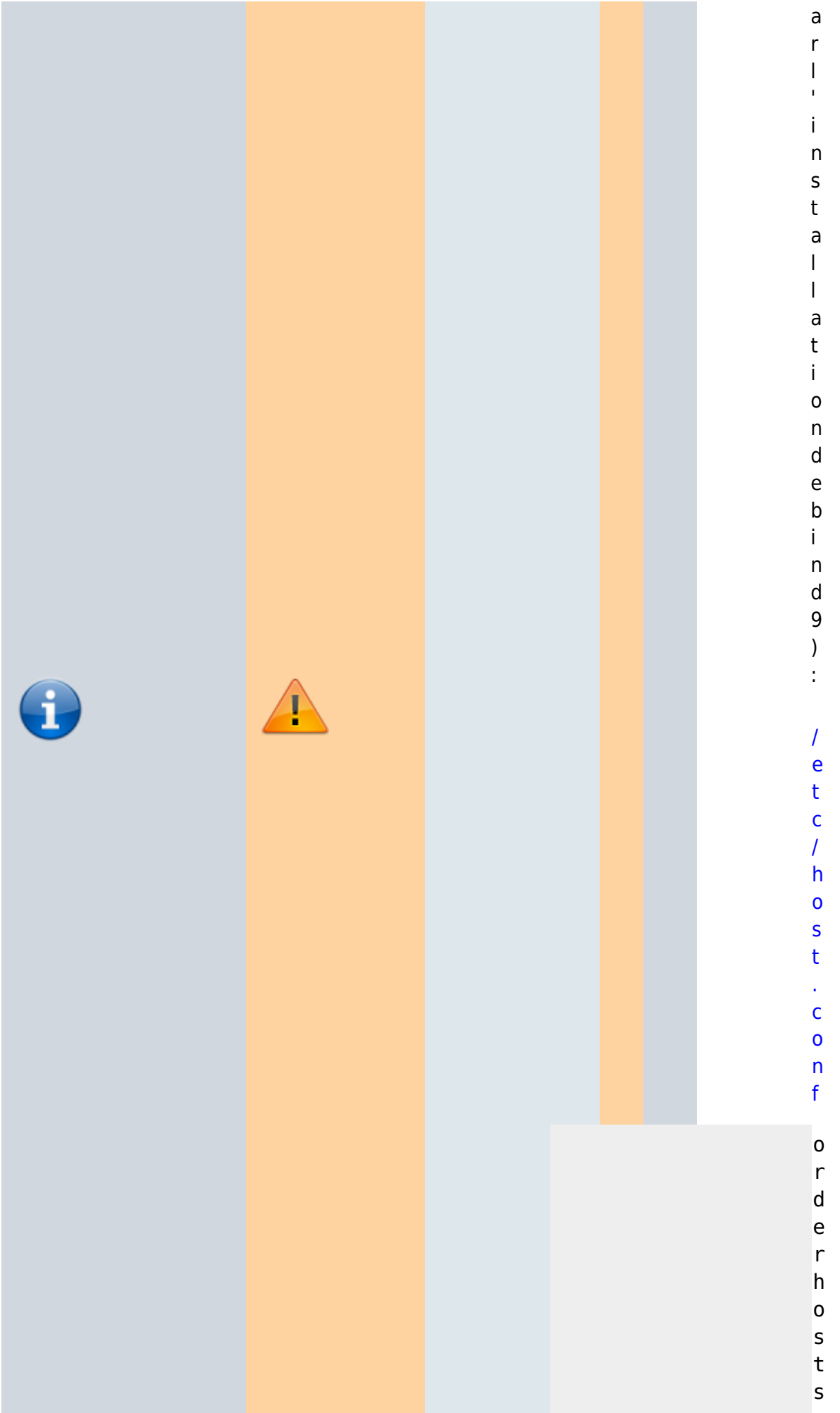
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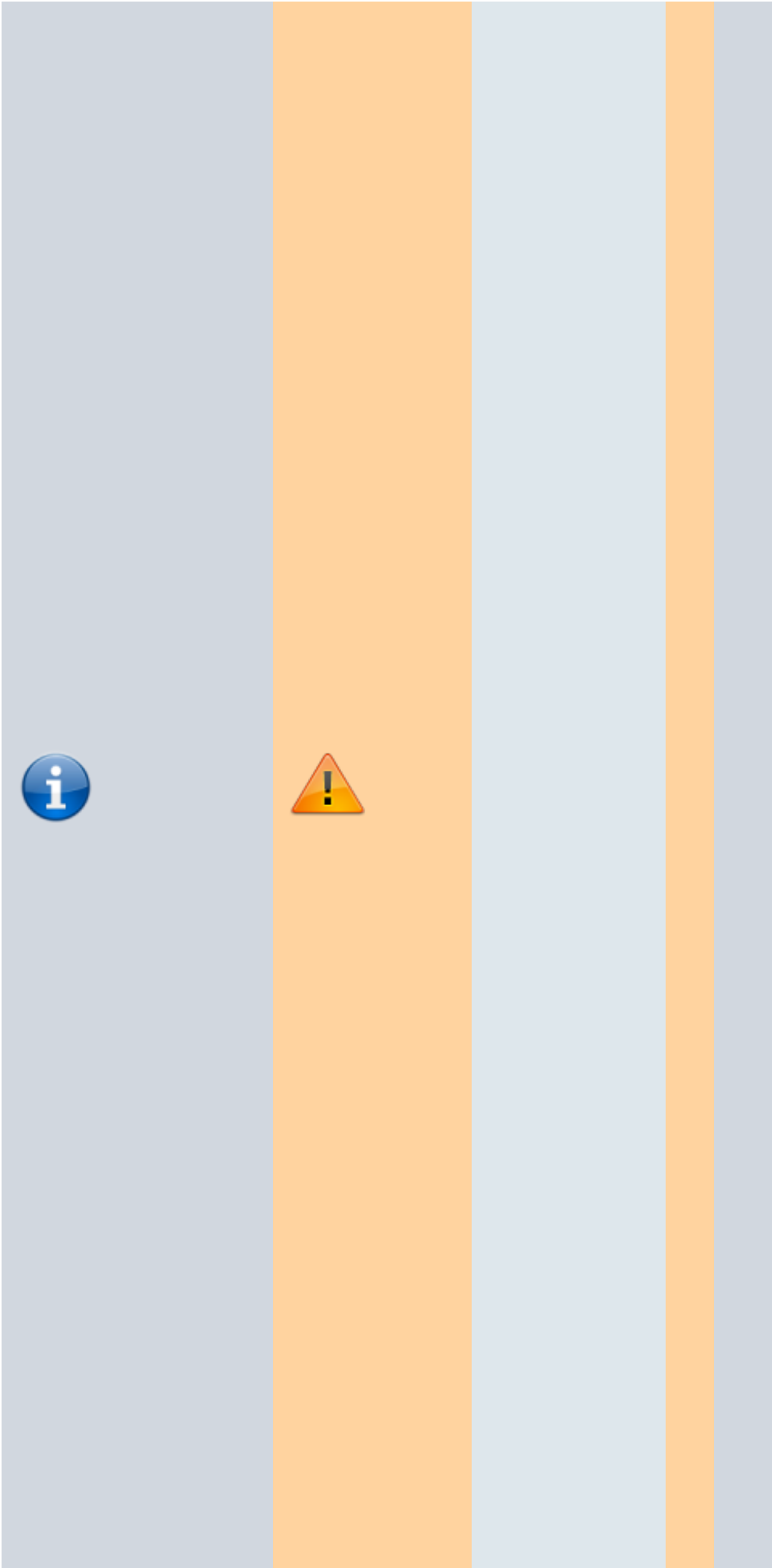
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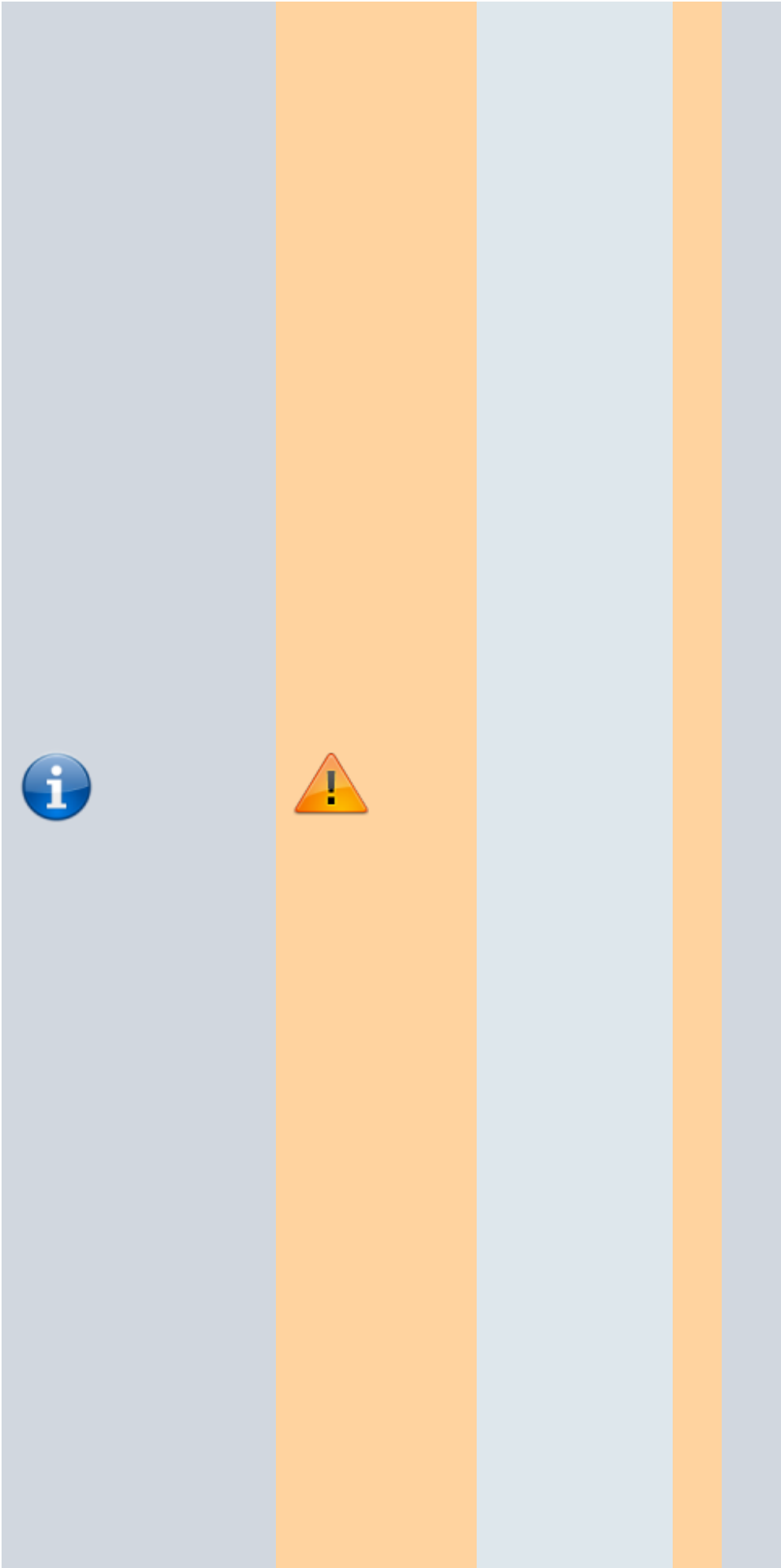
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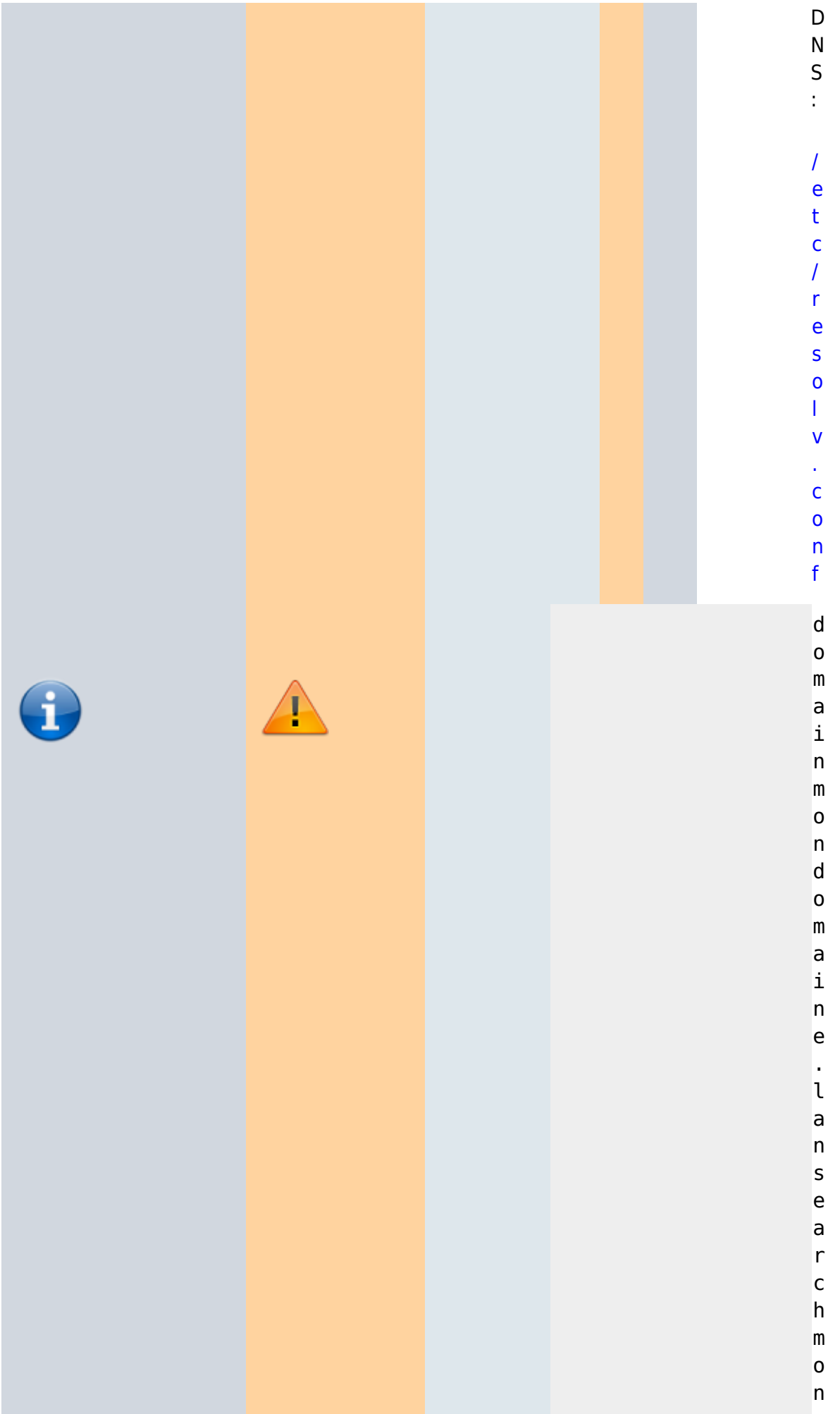
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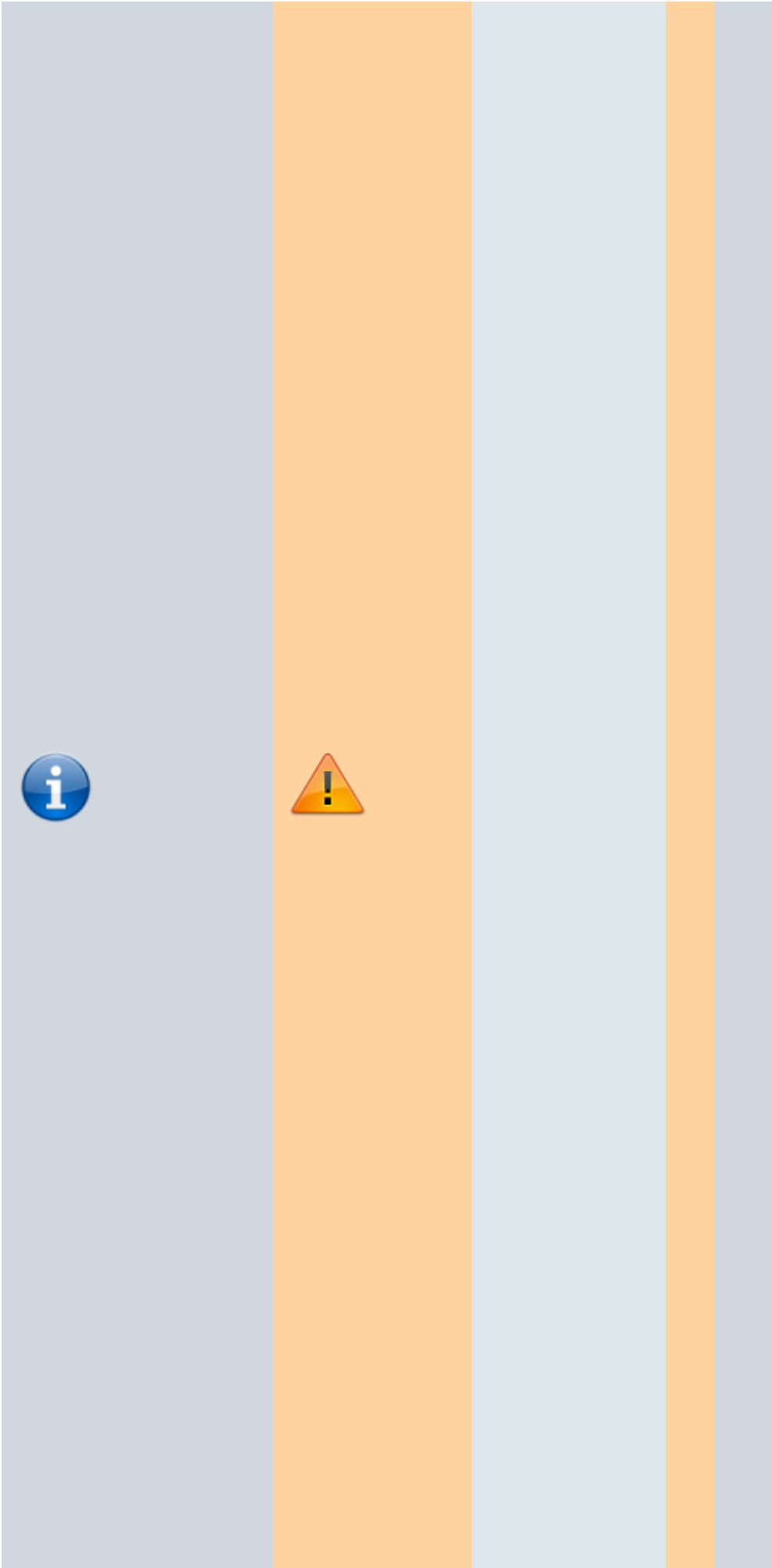


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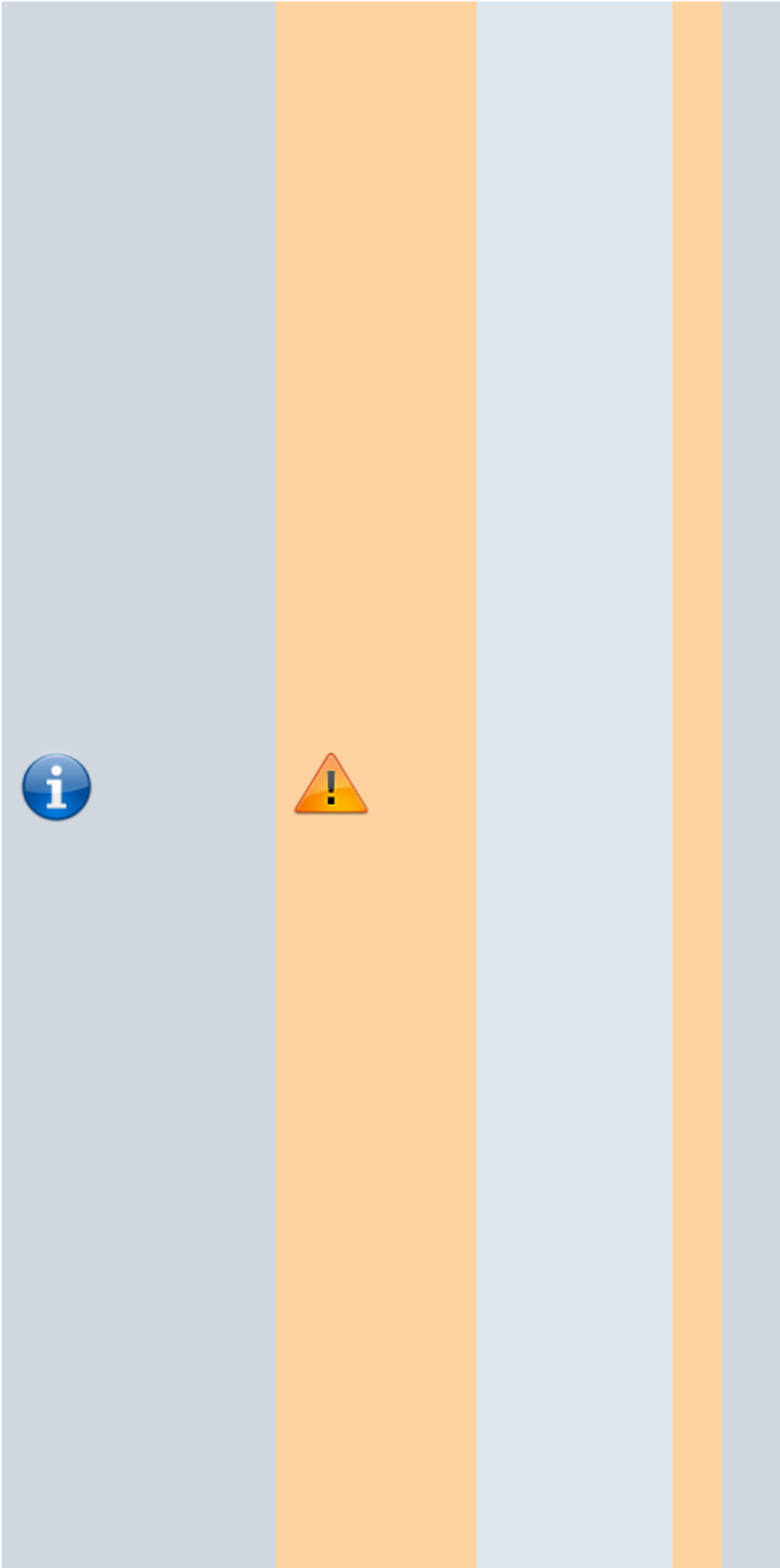
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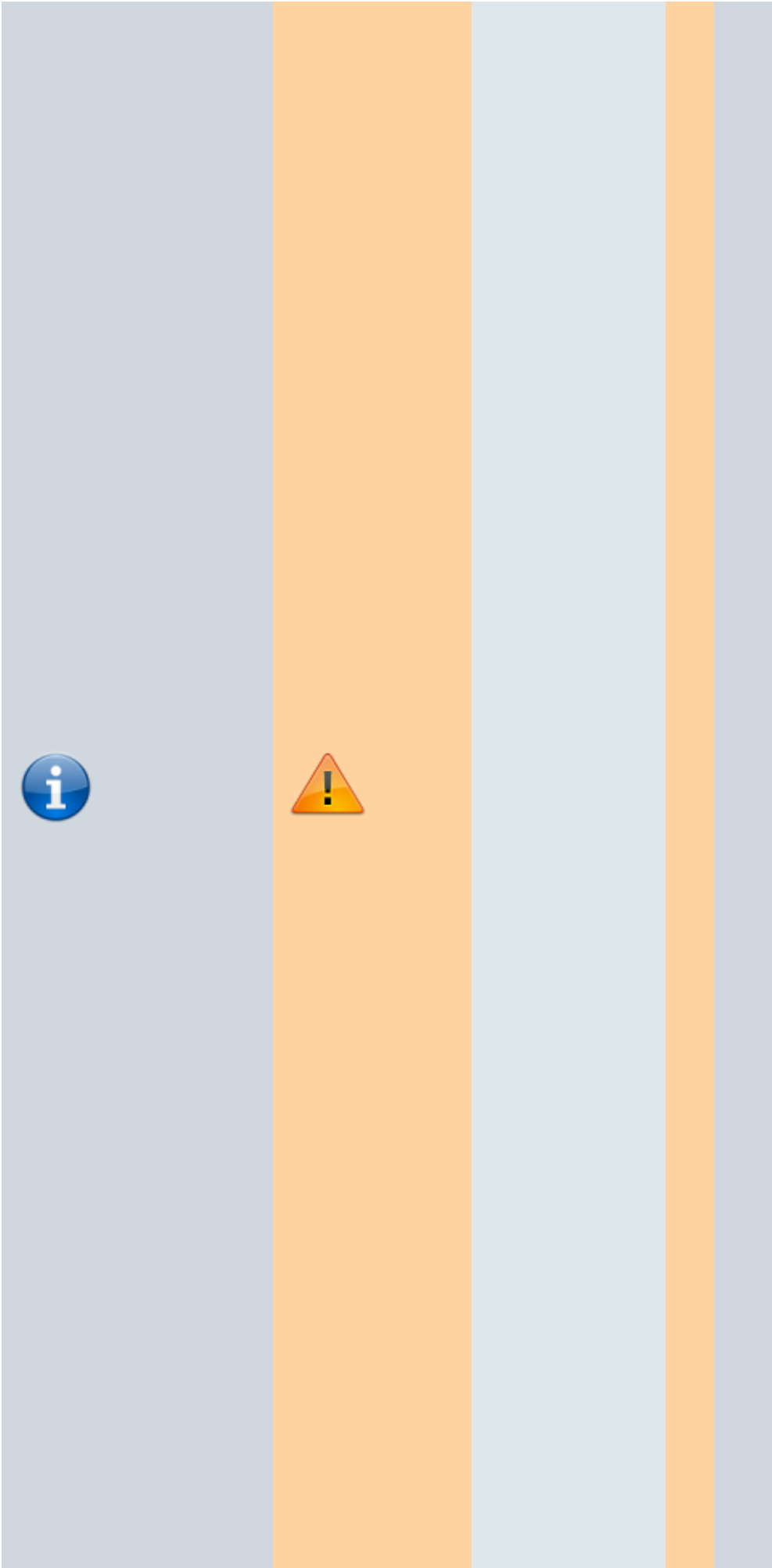


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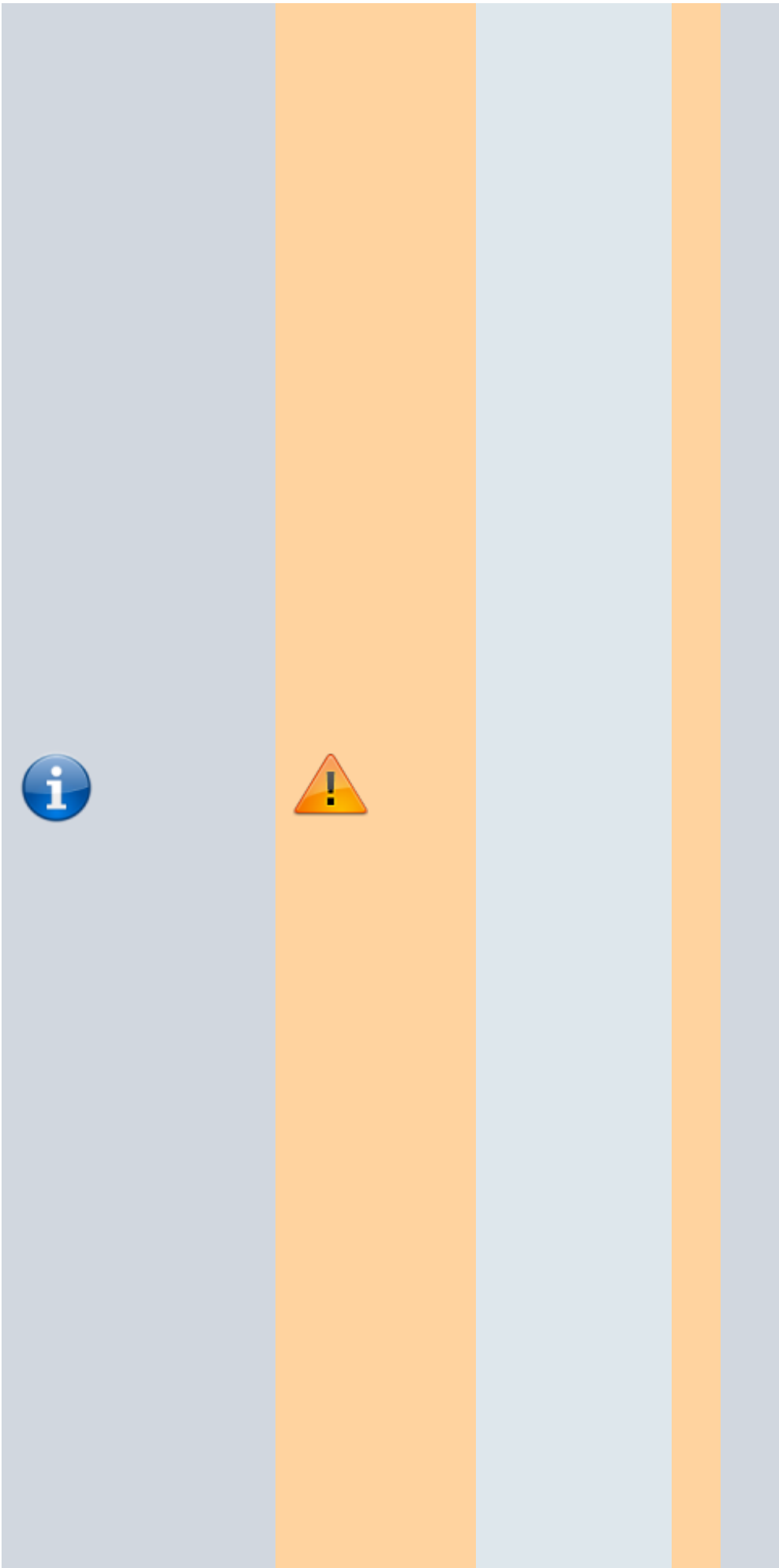
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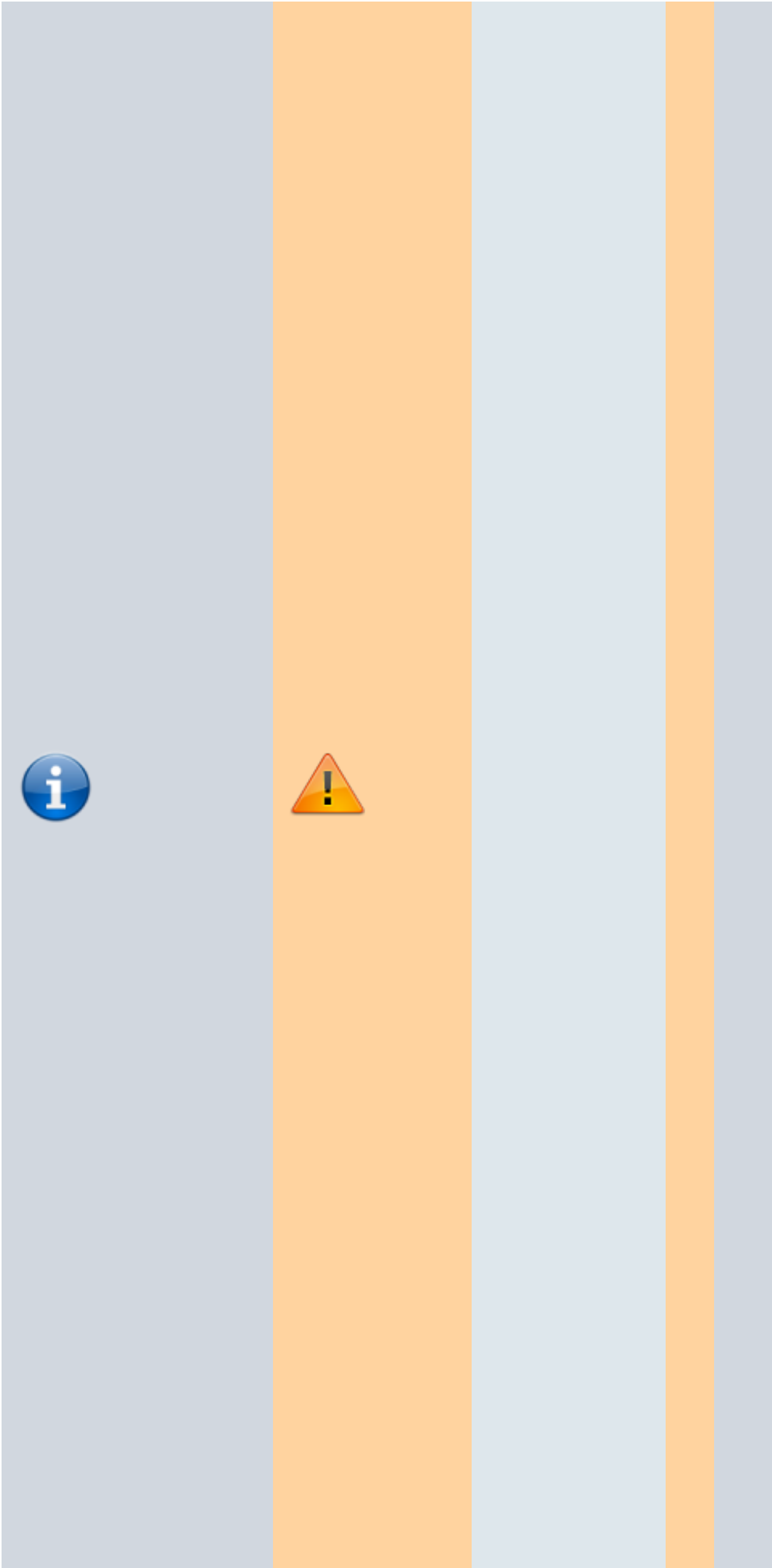
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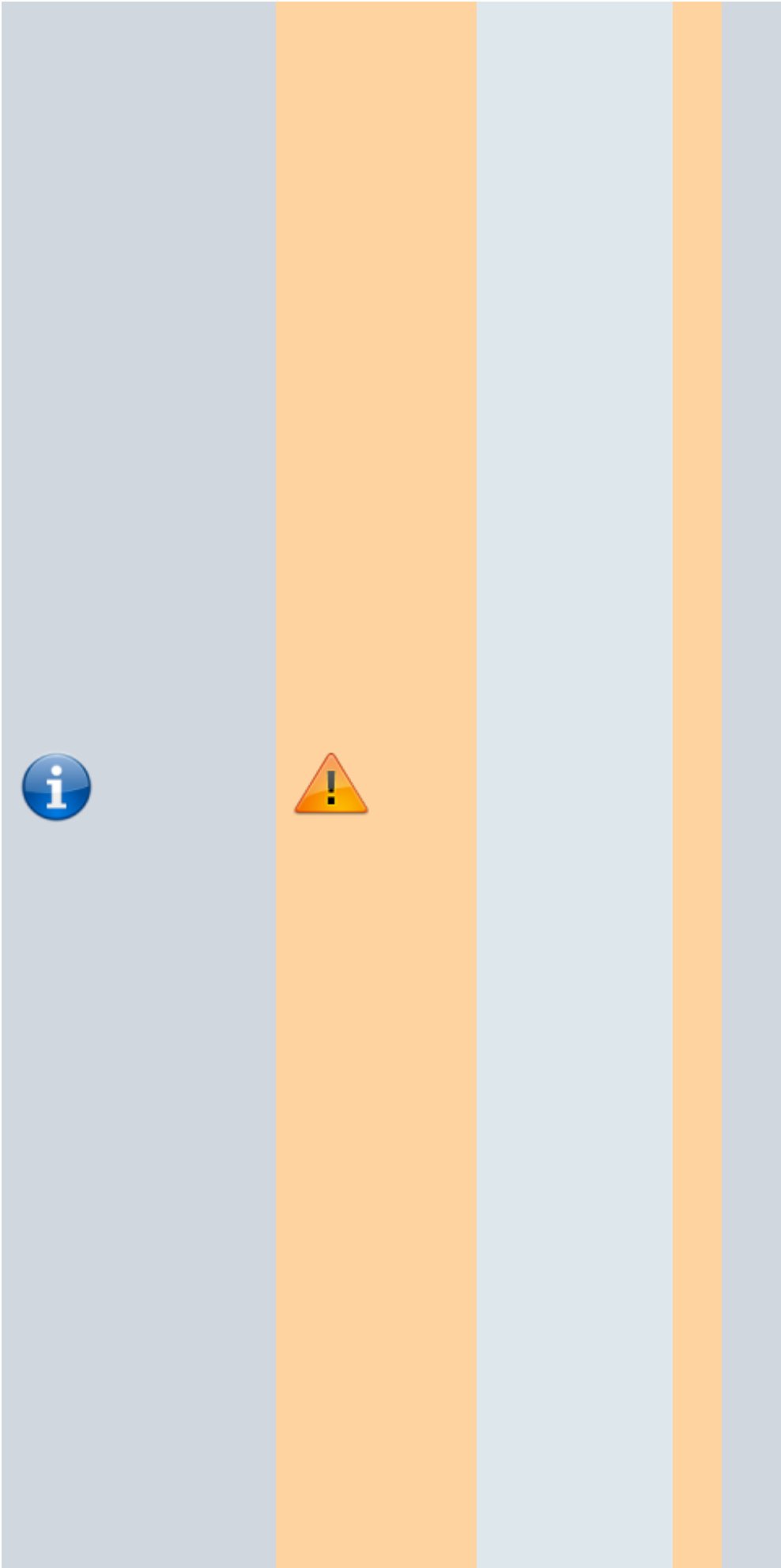
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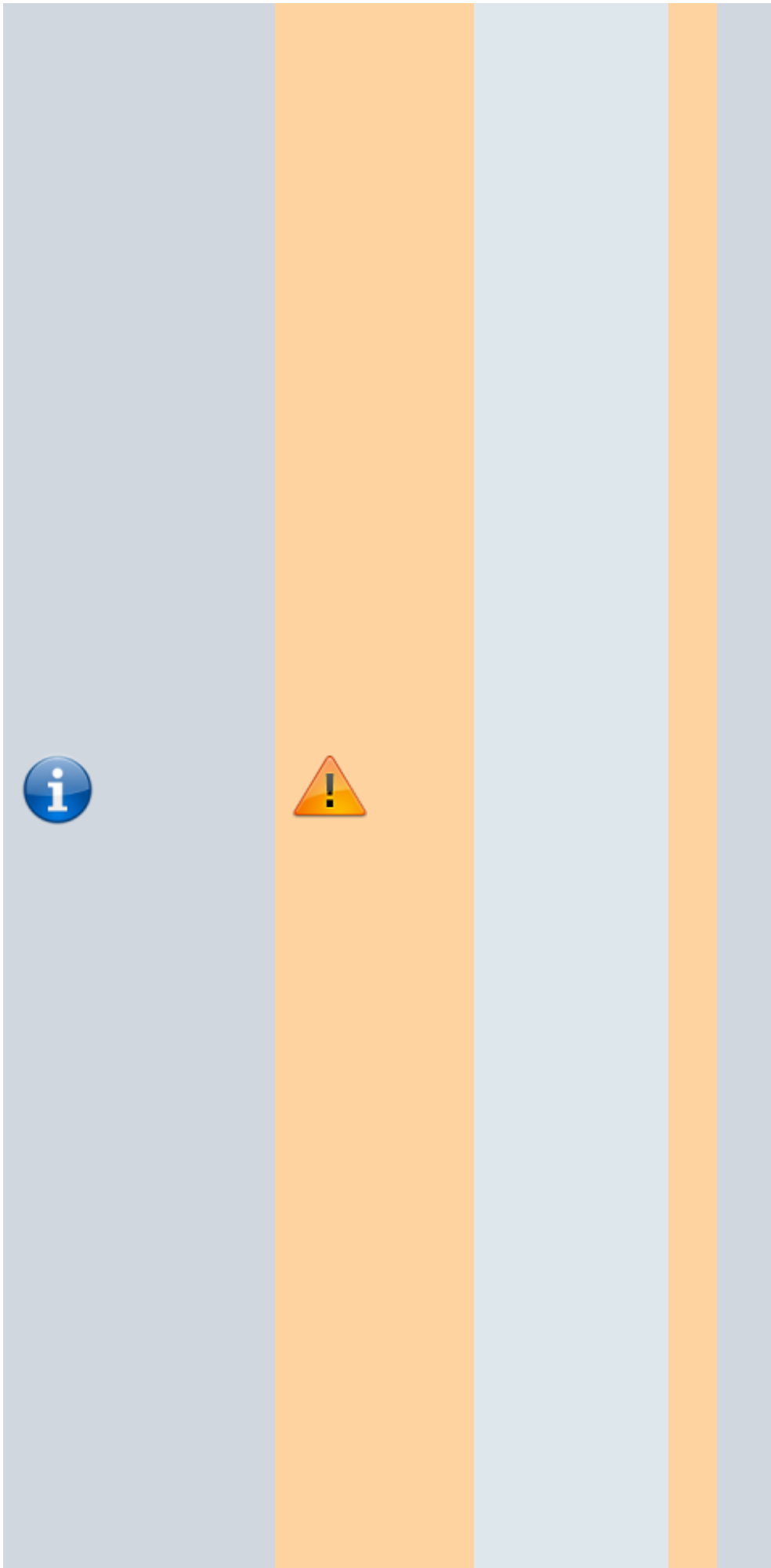


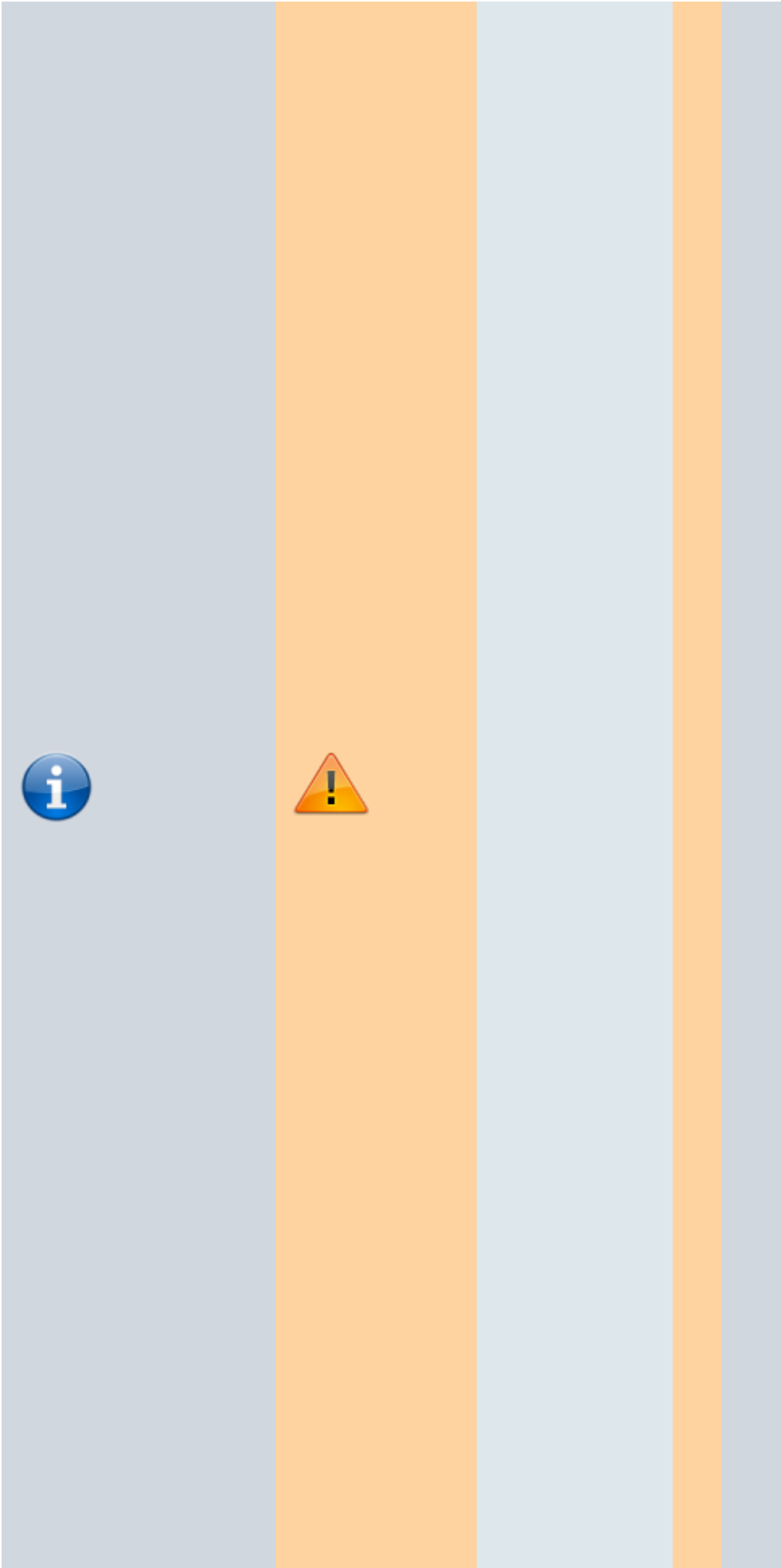
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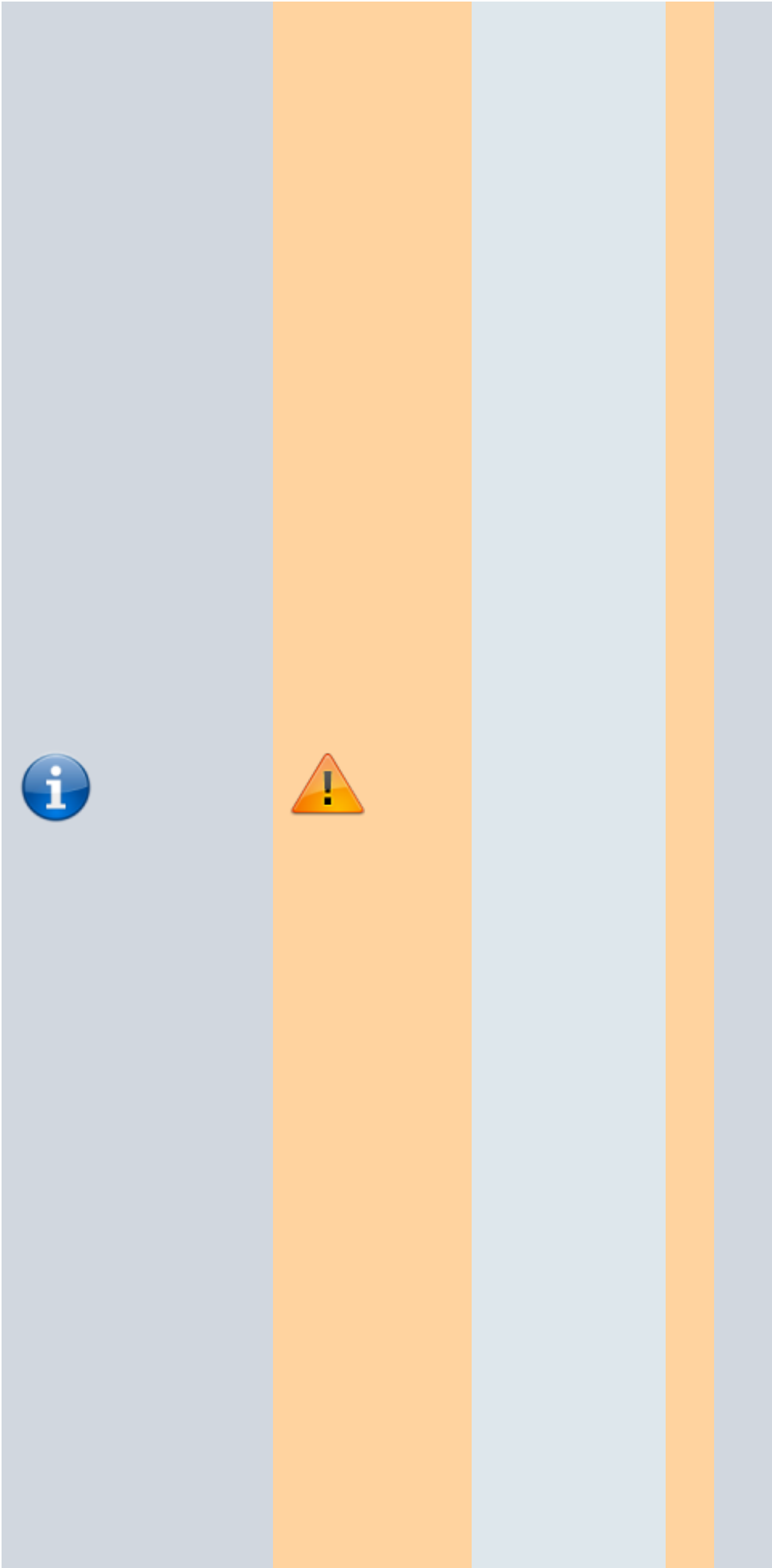
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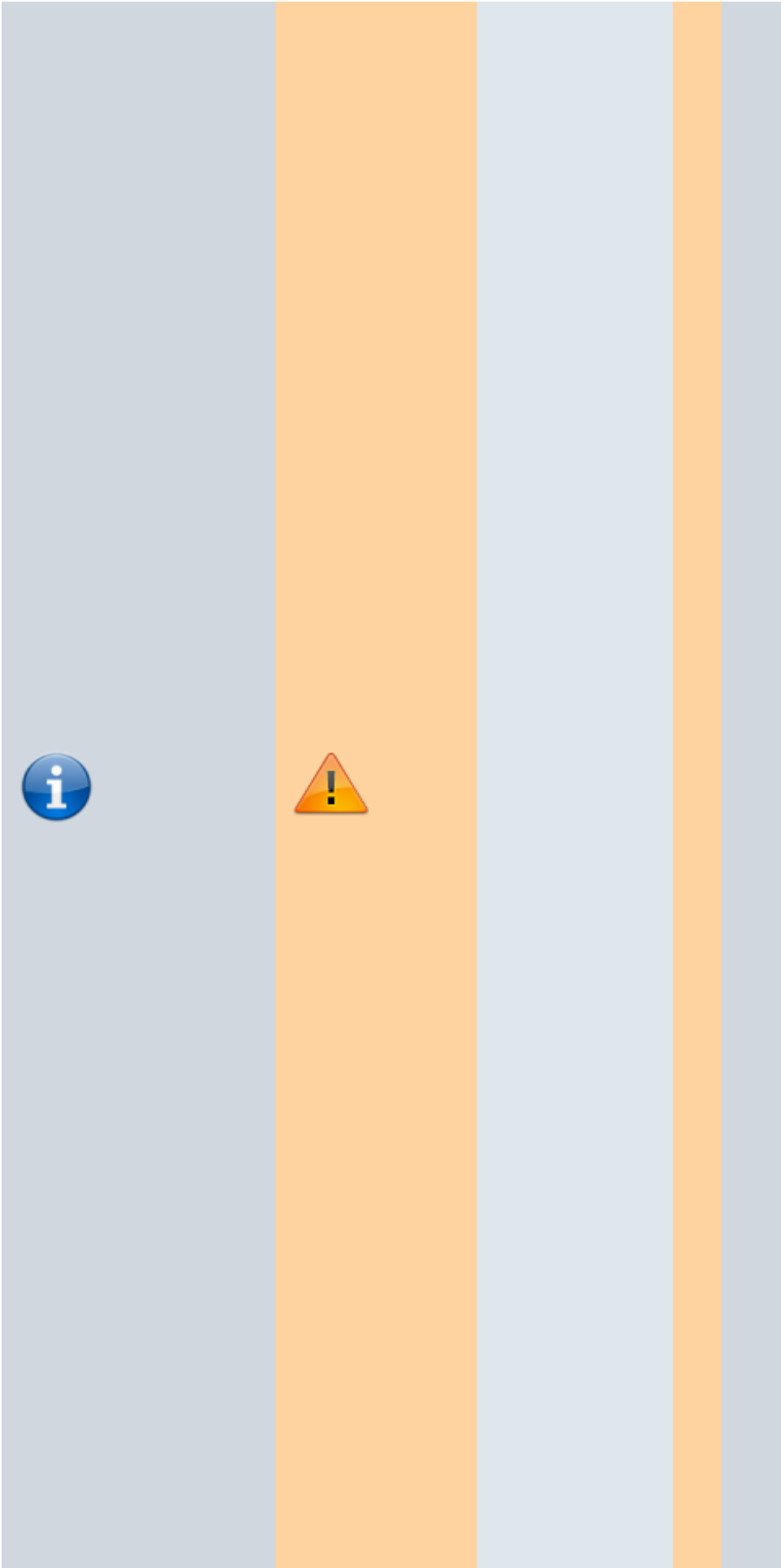




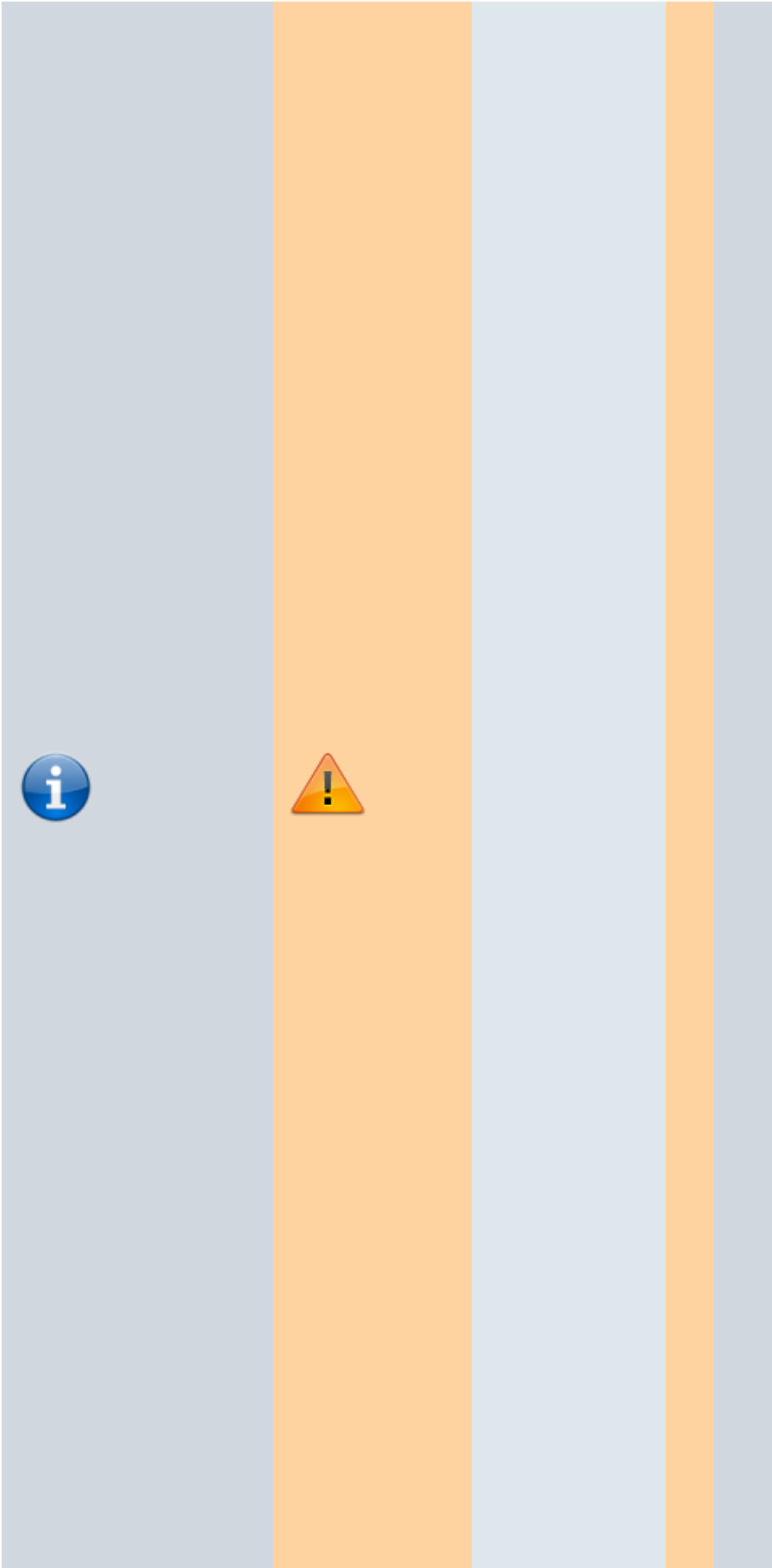
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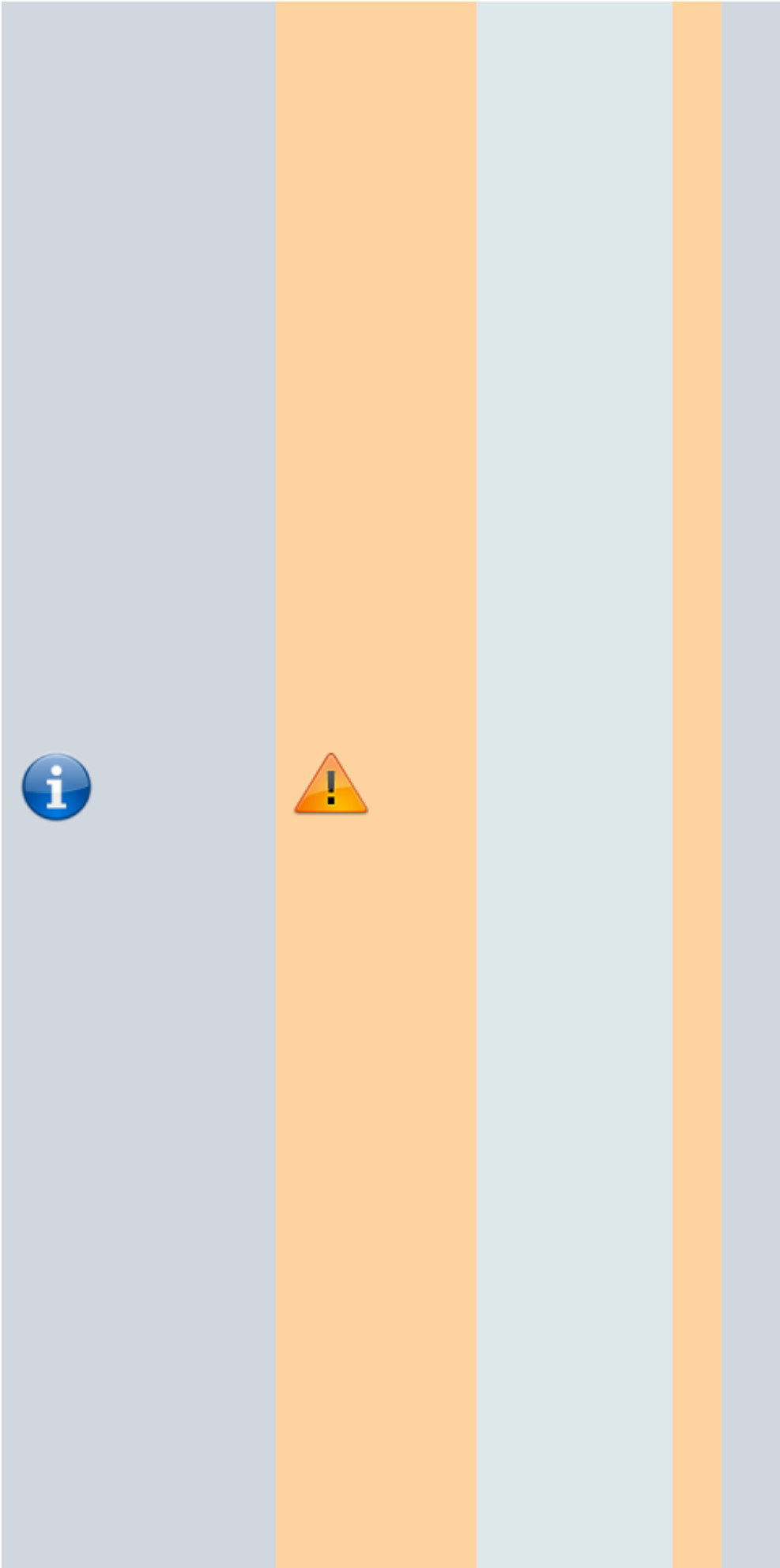
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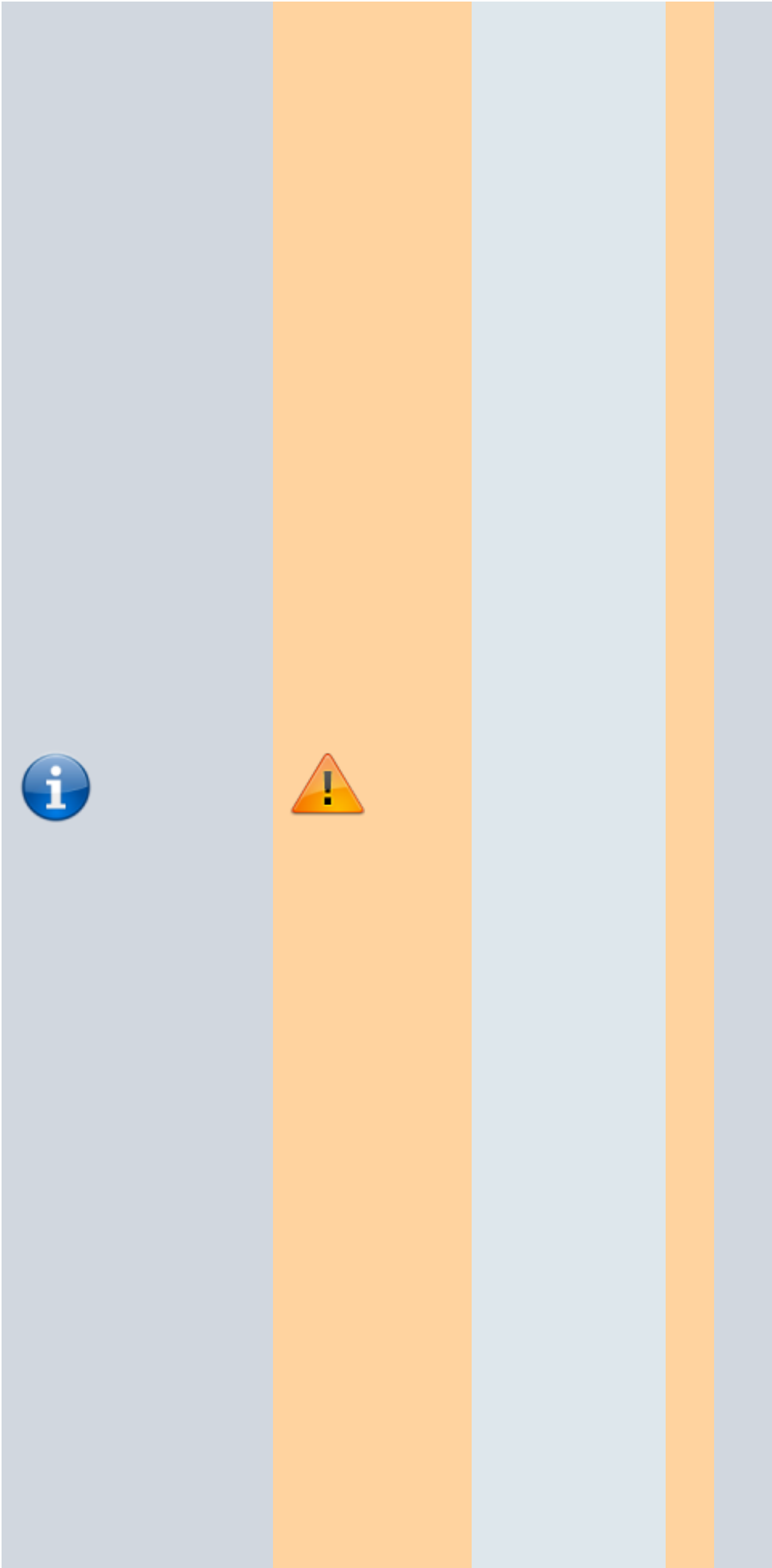
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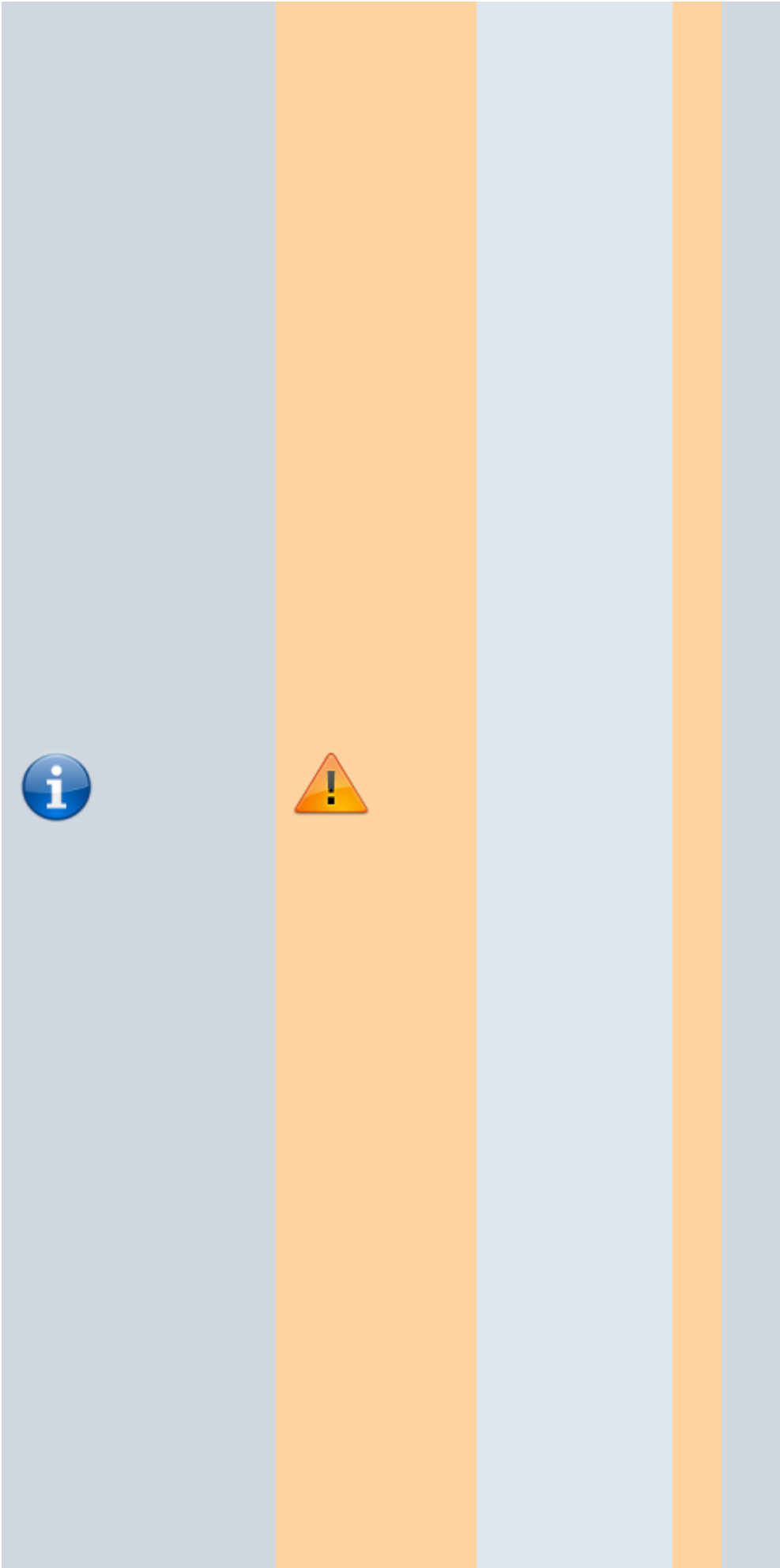
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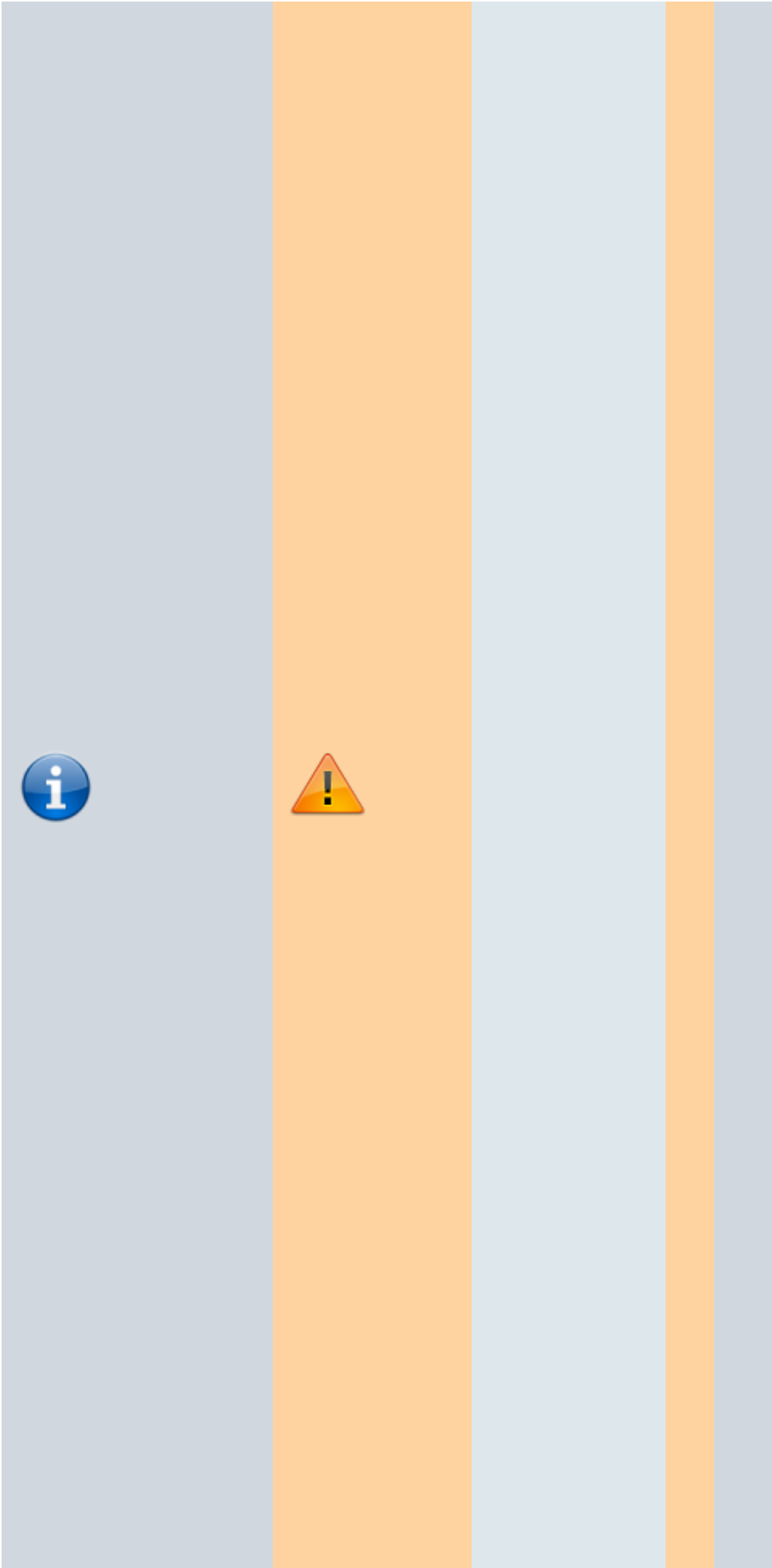
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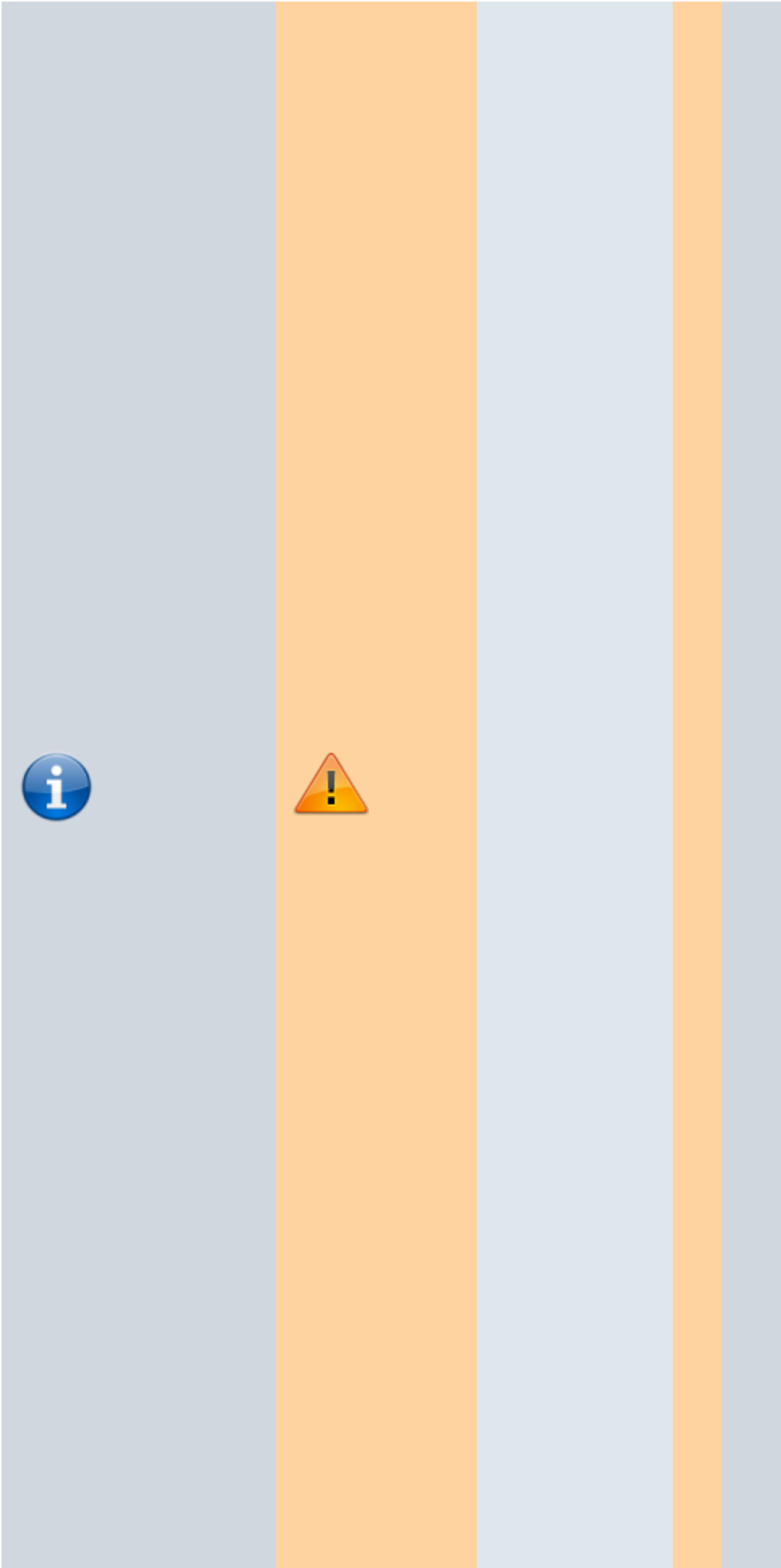
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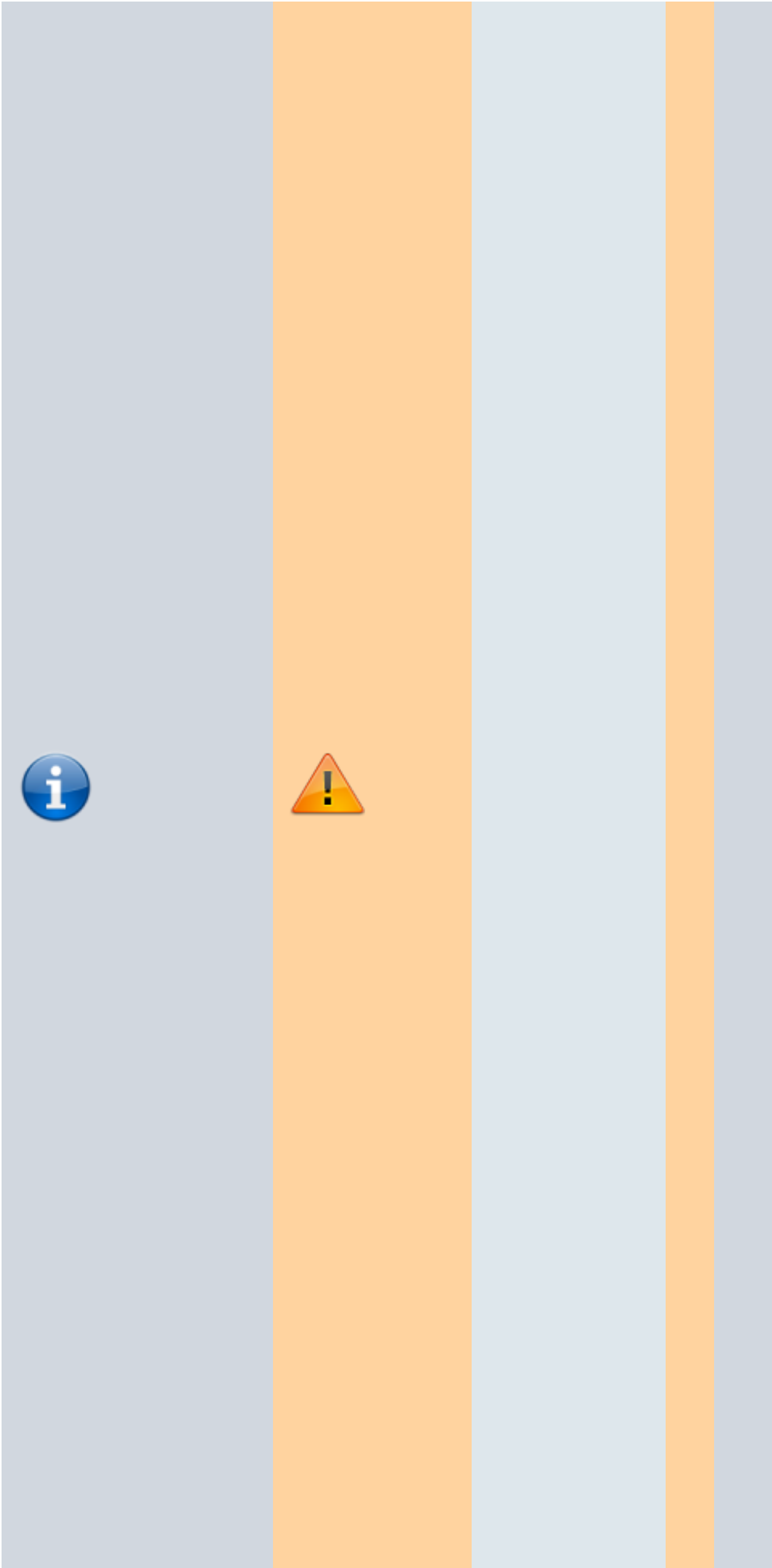
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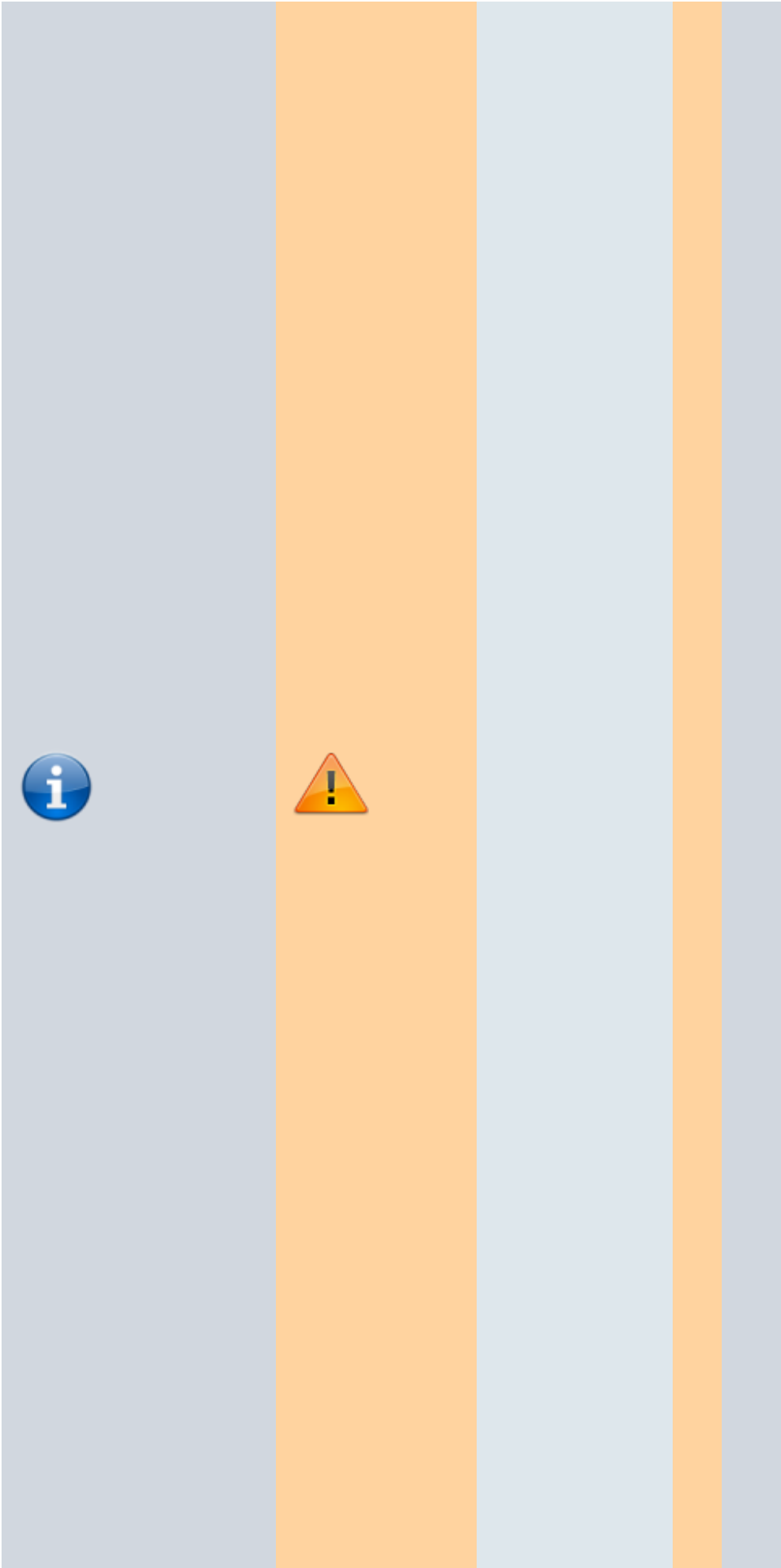
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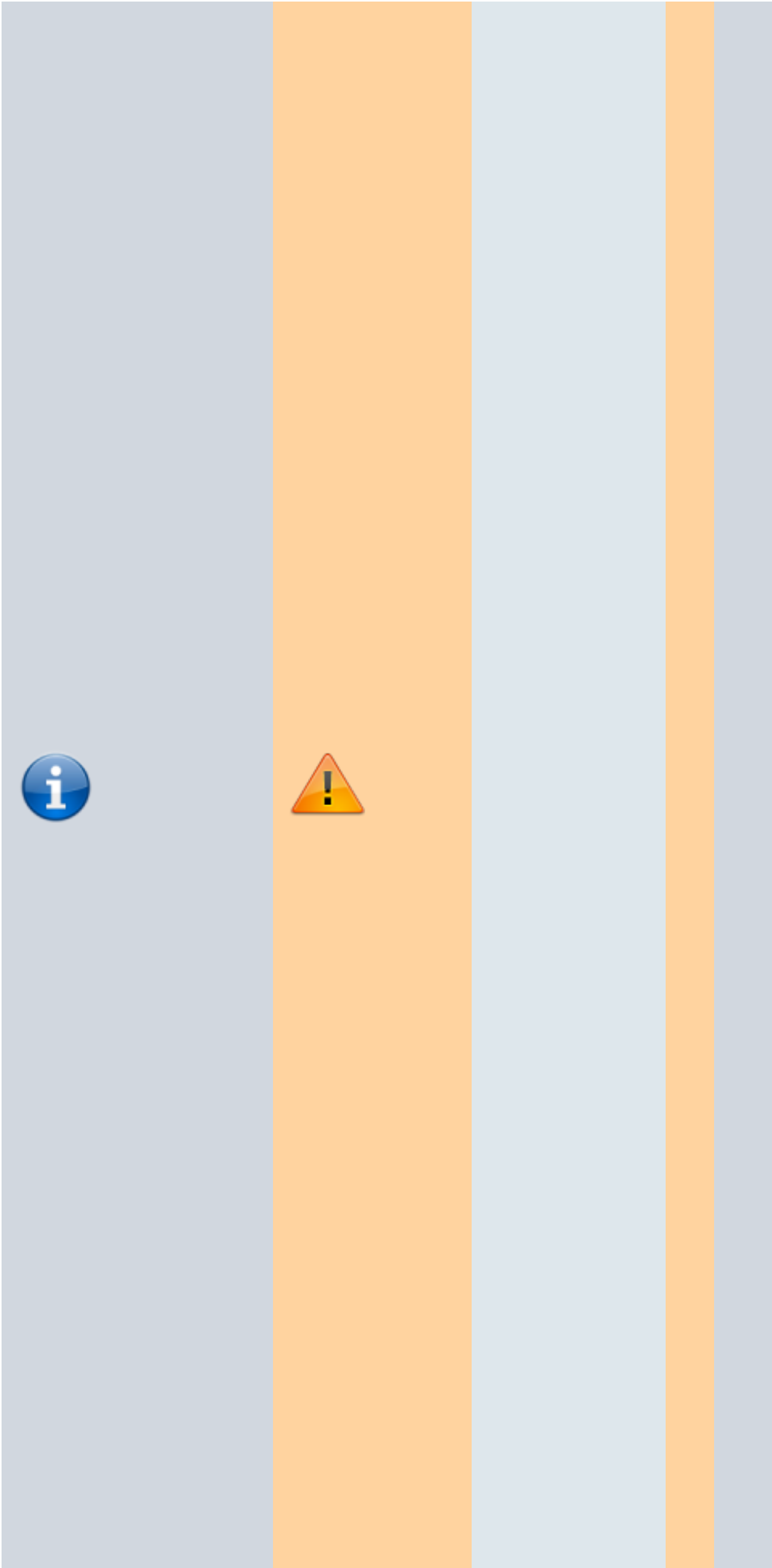
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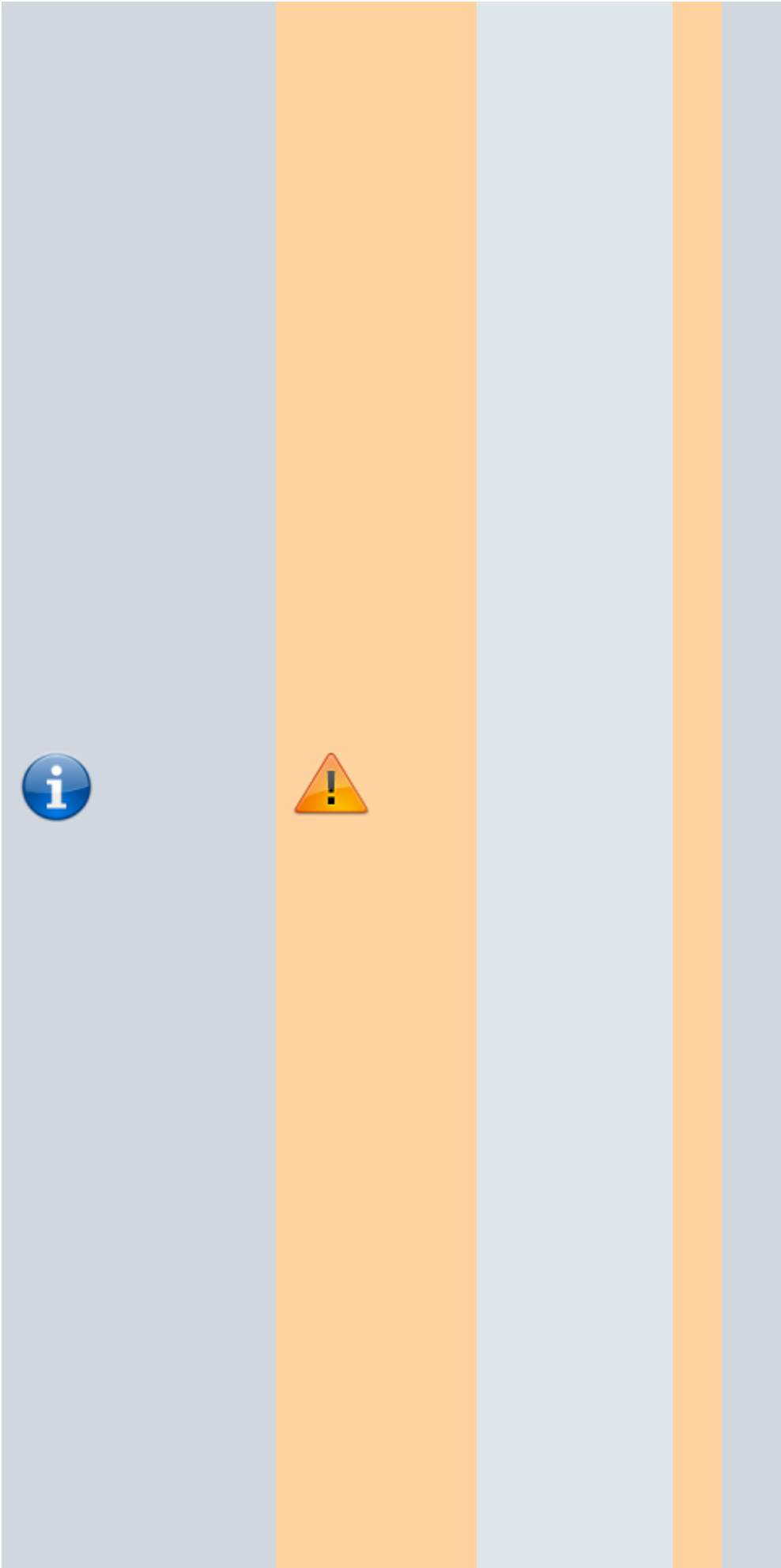
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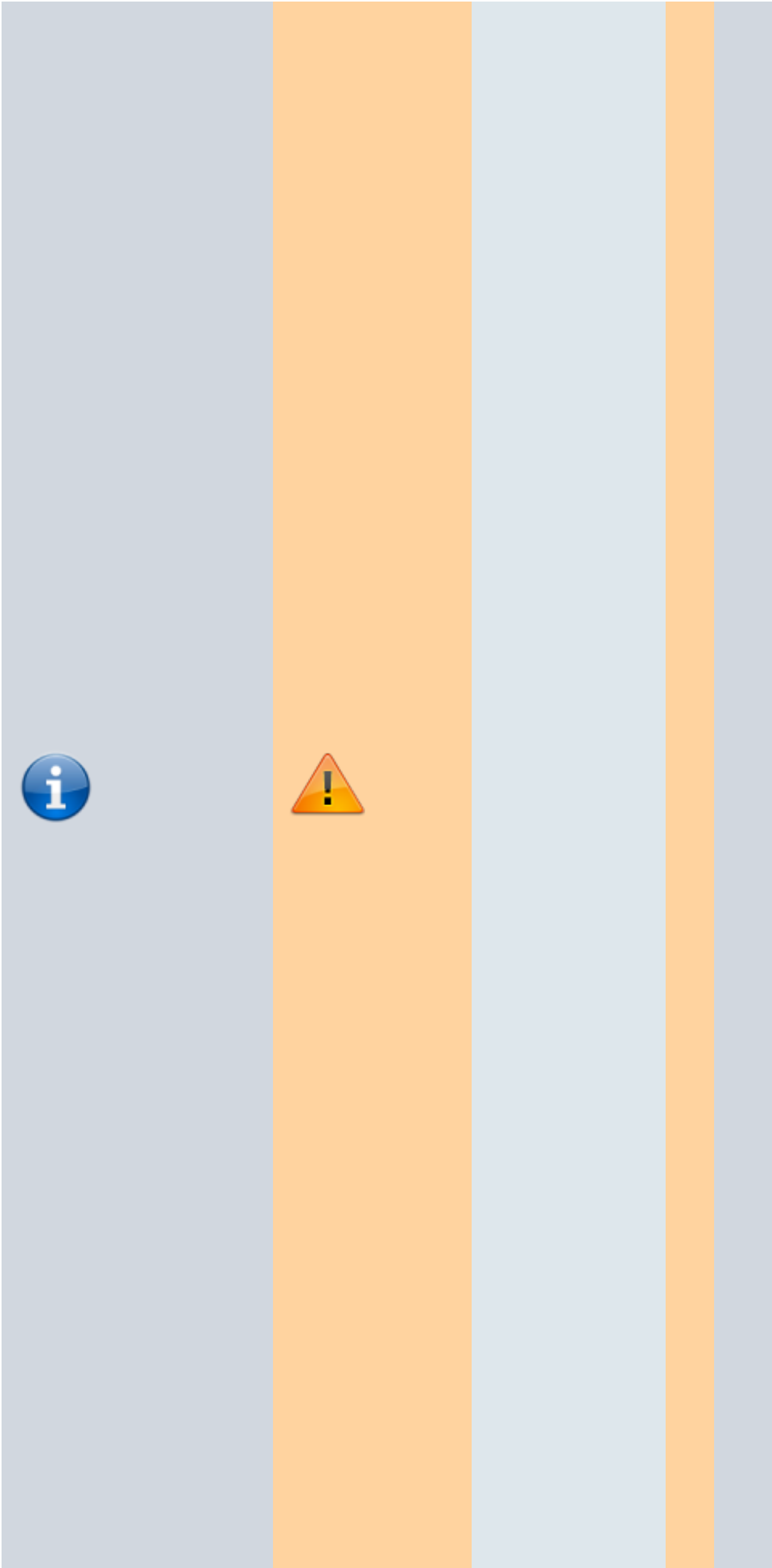
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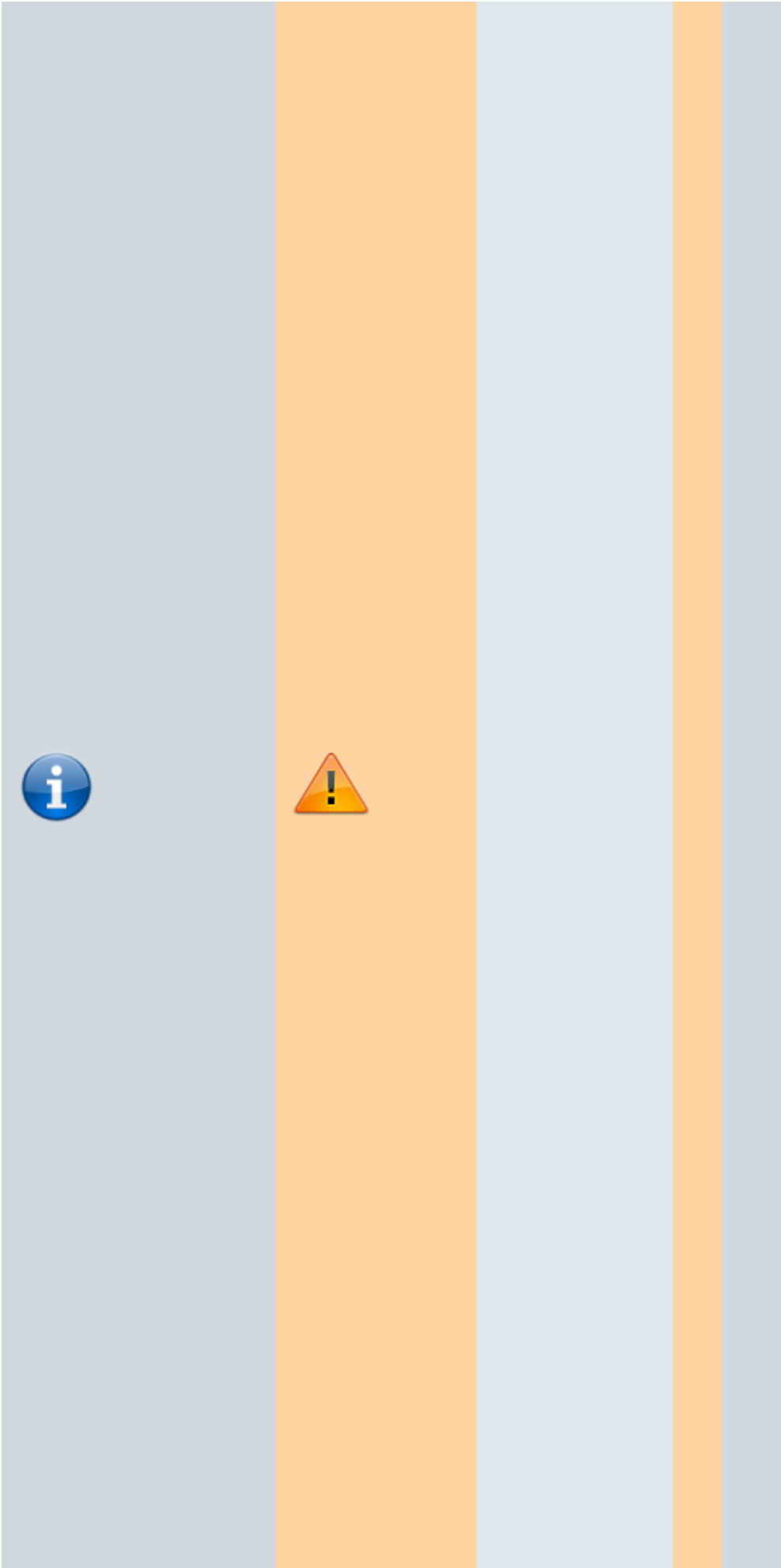


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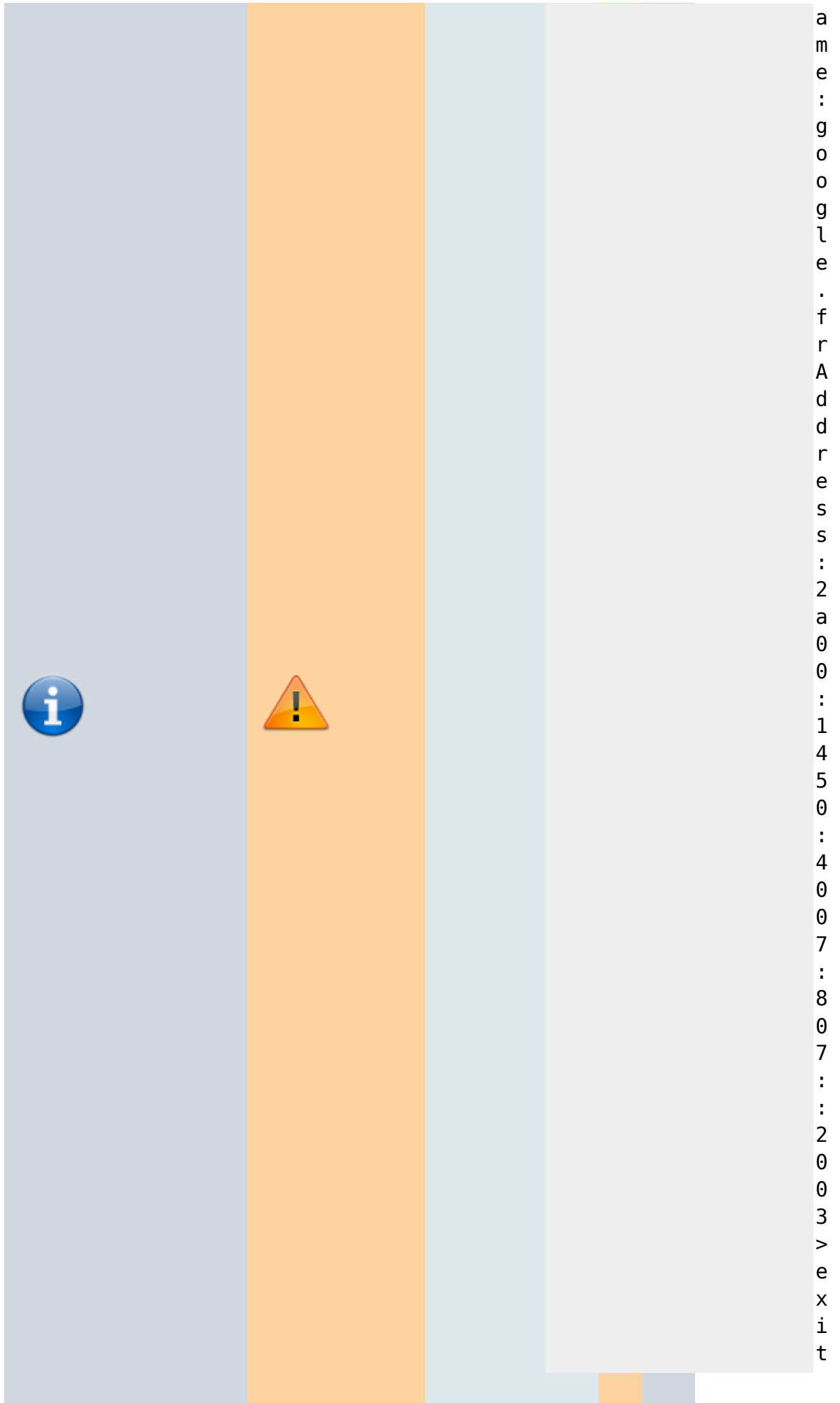
The graphic consists of a light blue background. A vertical orange stripe runs through the center. On the left side, there is a blue circular icon with a white lowercase 'i'. On the orange stripe, there is a yellow triangular warning icon with a black exclamation mark. On the right side, there is a white rounded rectangle containing a vertical list of characters: a colon, a period, a period, a period, an at-sign, a period, a period, a colon, a tilde, a dollar sign, 'n', 's', 'l', 'o', 'o', 'k', 'u', 'p', '>', 's', 'e', 'r', 'v', 'e', 'r', '1', '9', '2', '.', '1', '6', '8', '.', '0', '.', '3', '2', 'D', 'e', 'f', 'a', 'u', 'l', 't', 's', 'e', 'r', 'v', 'e', 'r'.

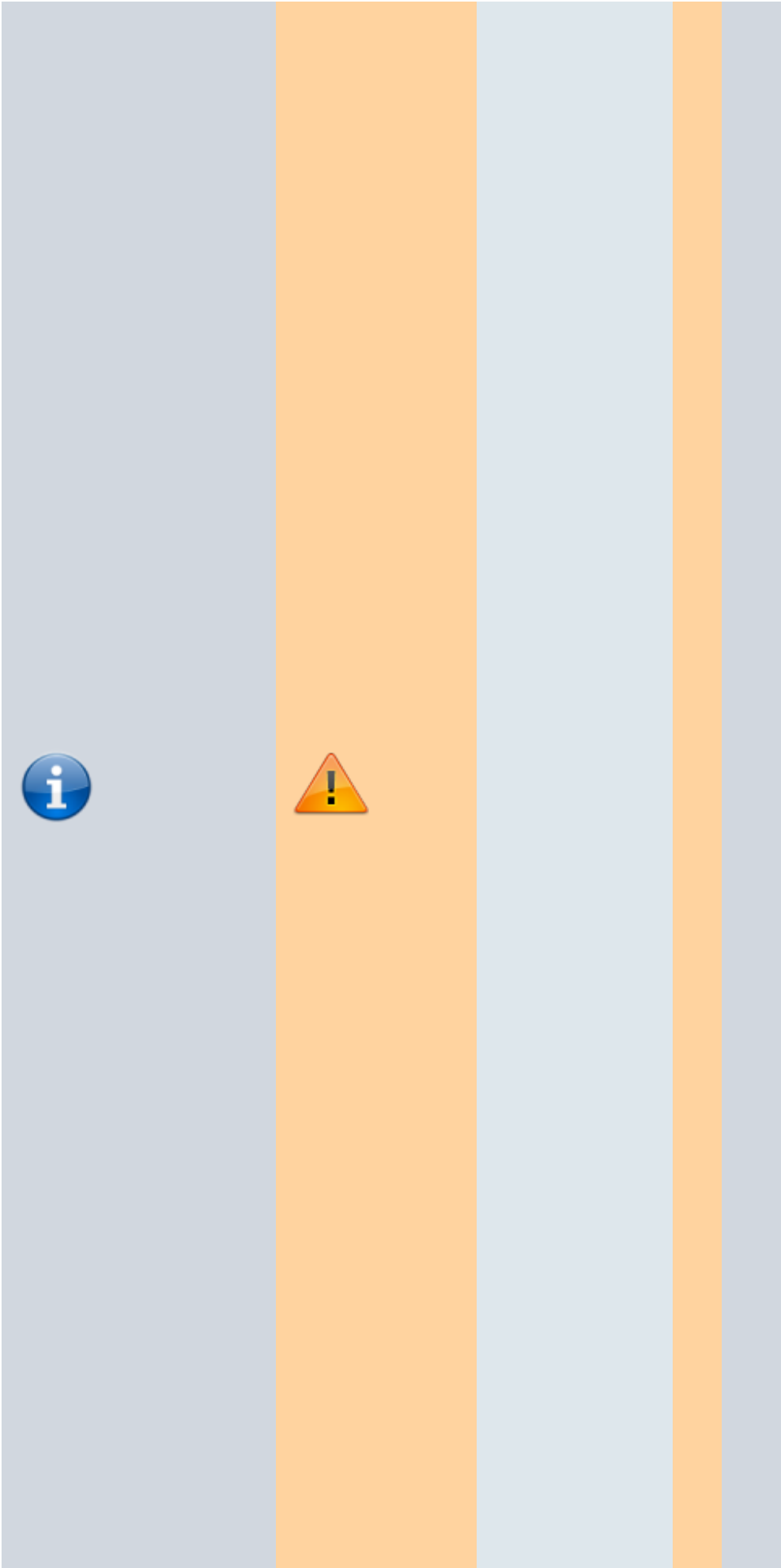
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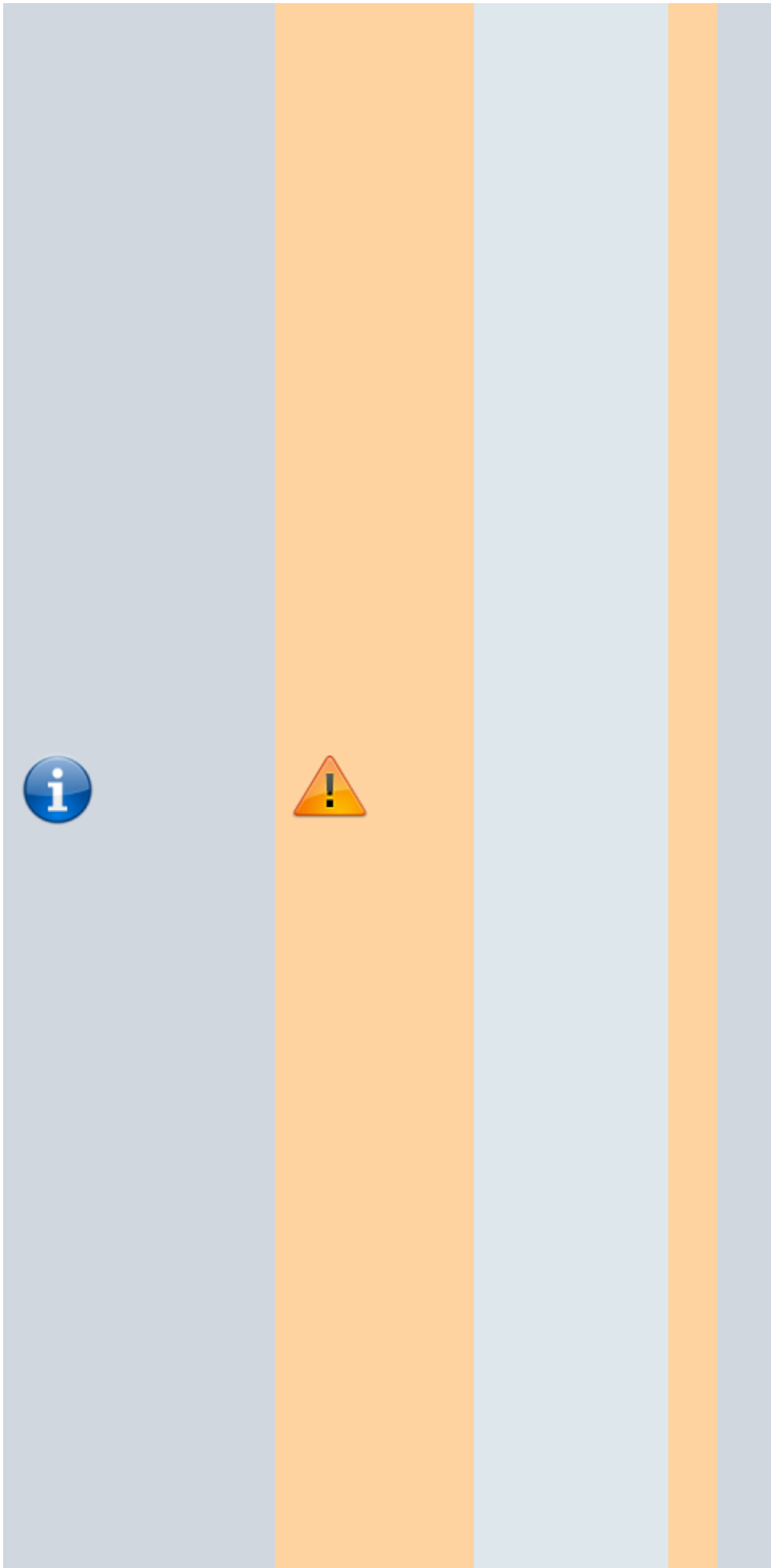
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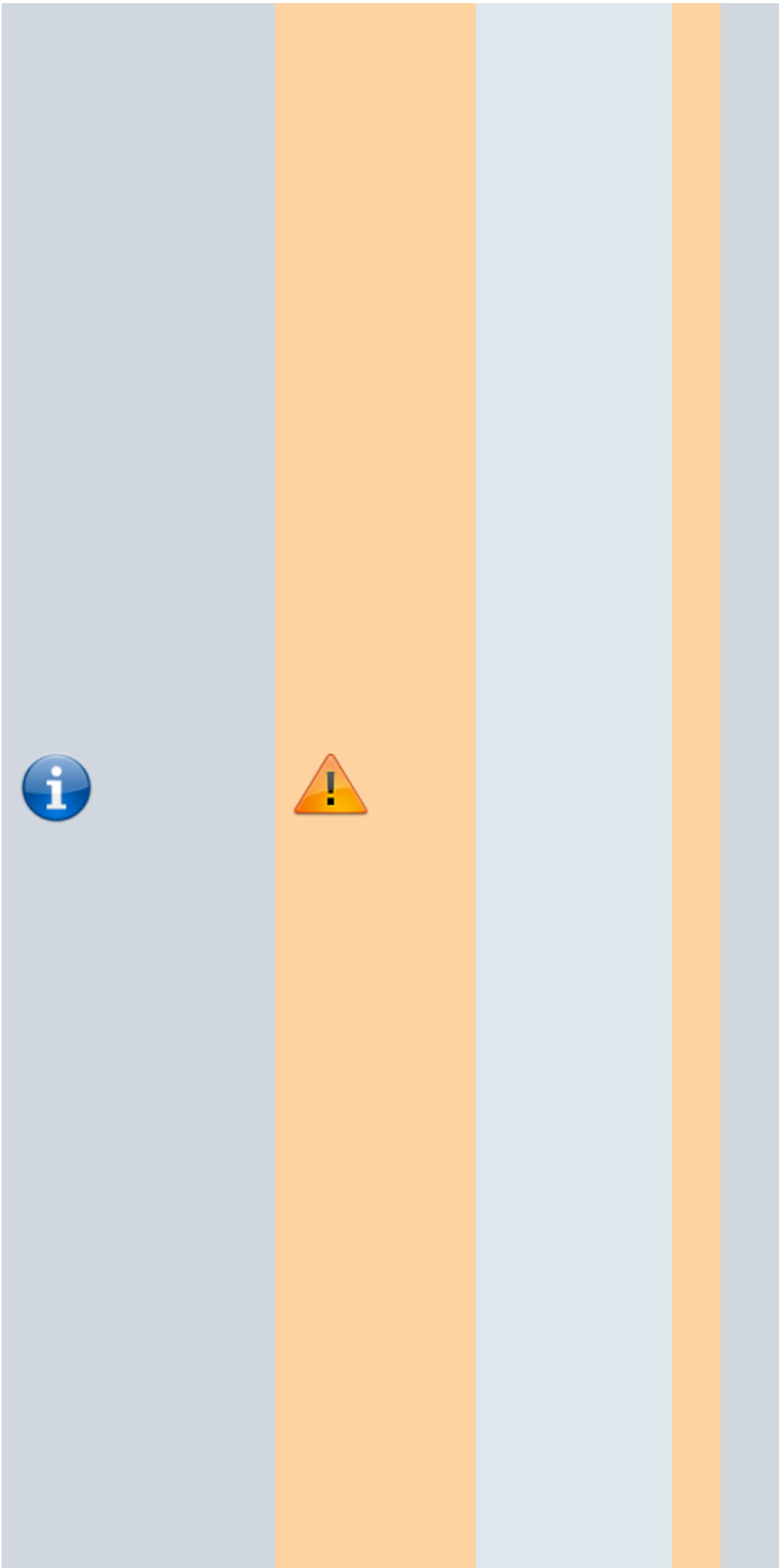




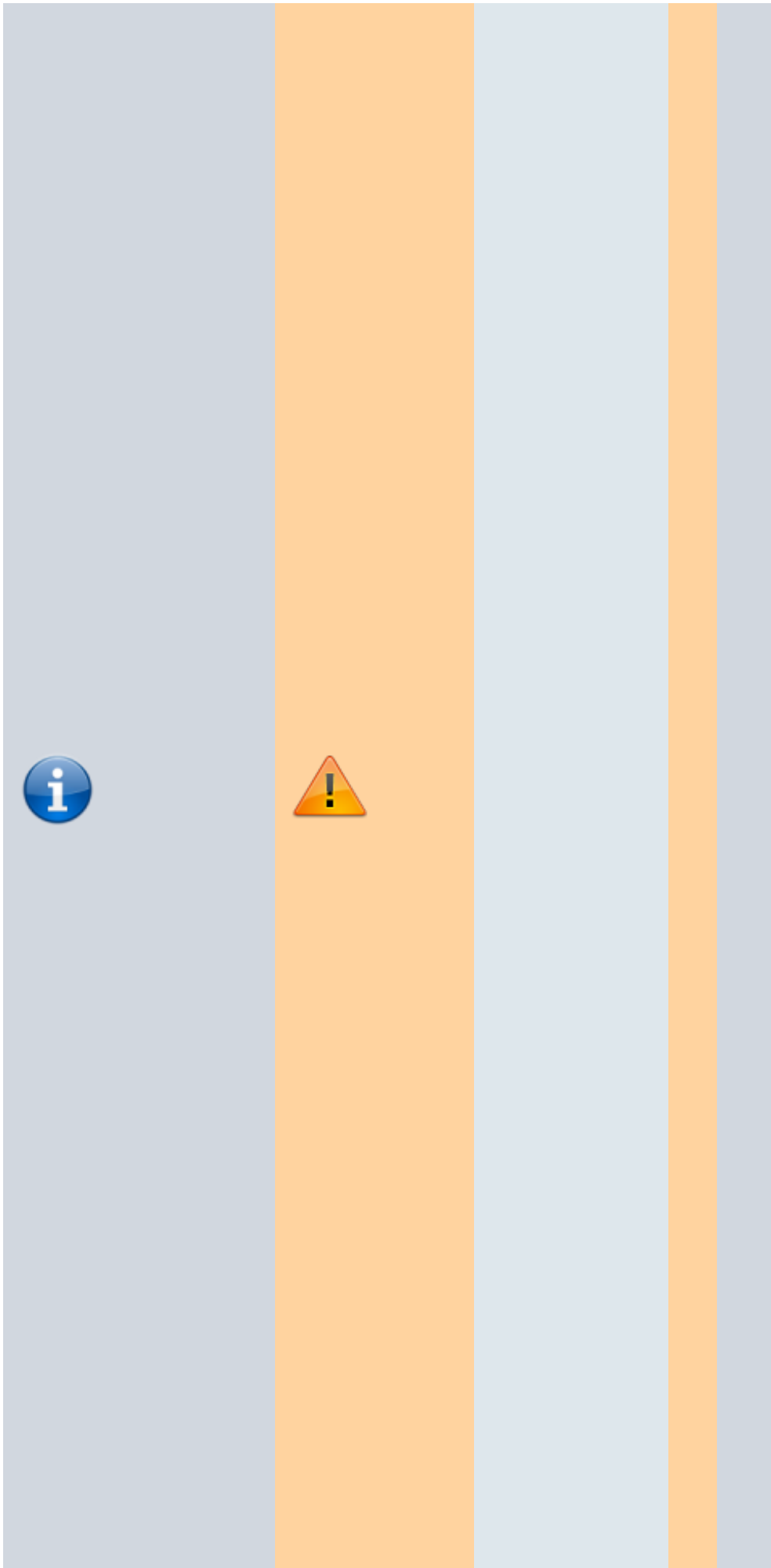
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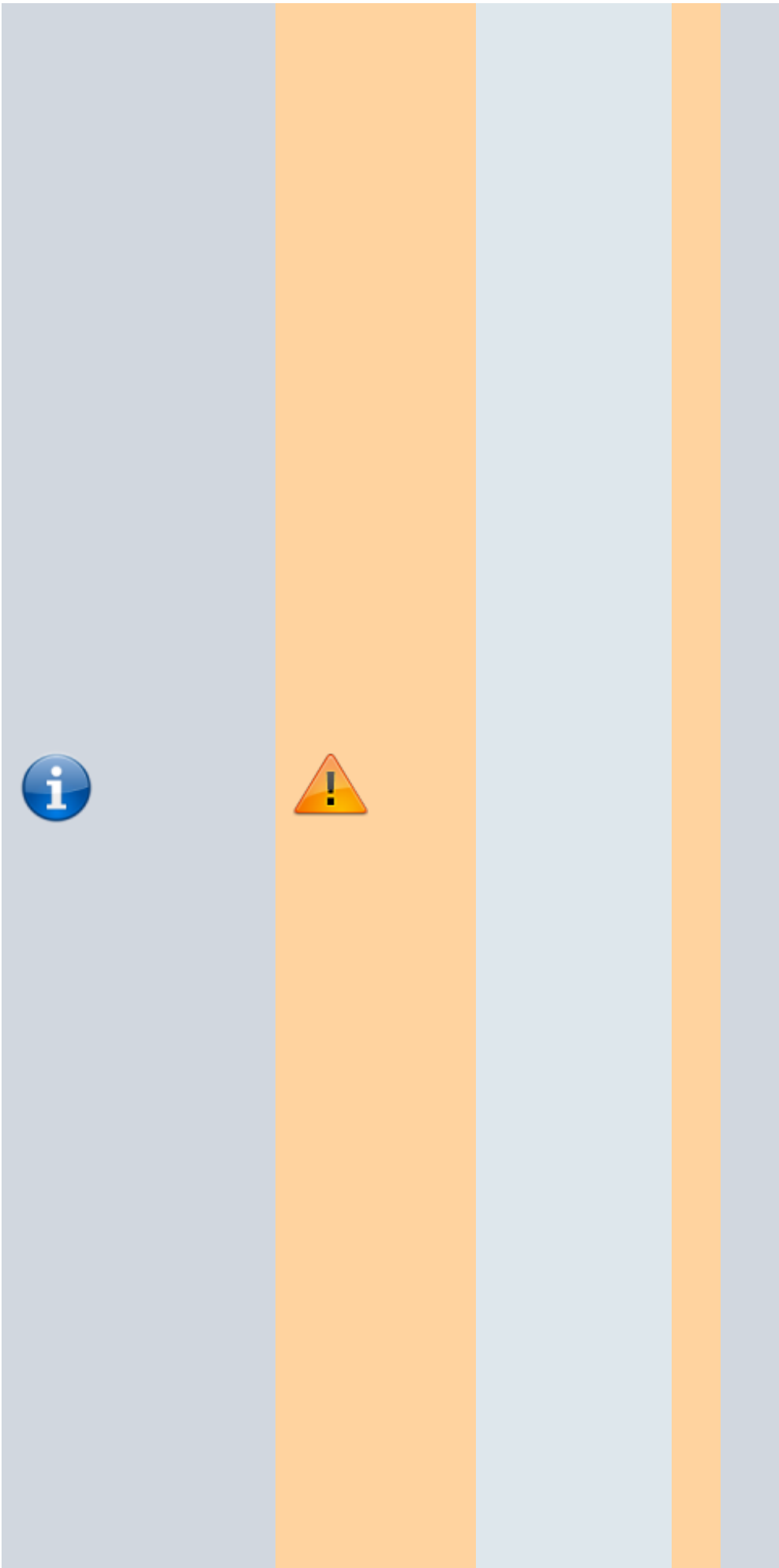
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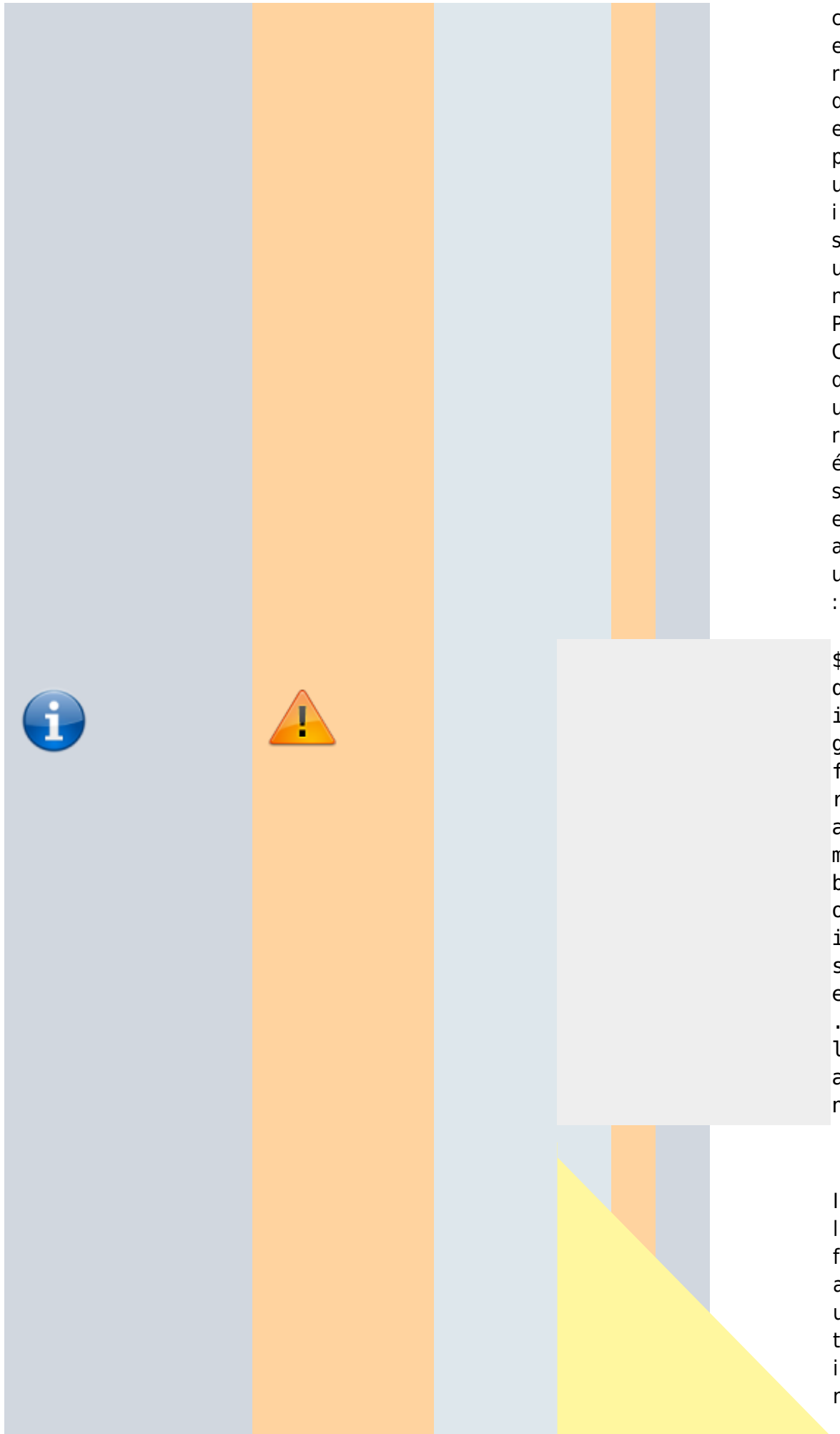
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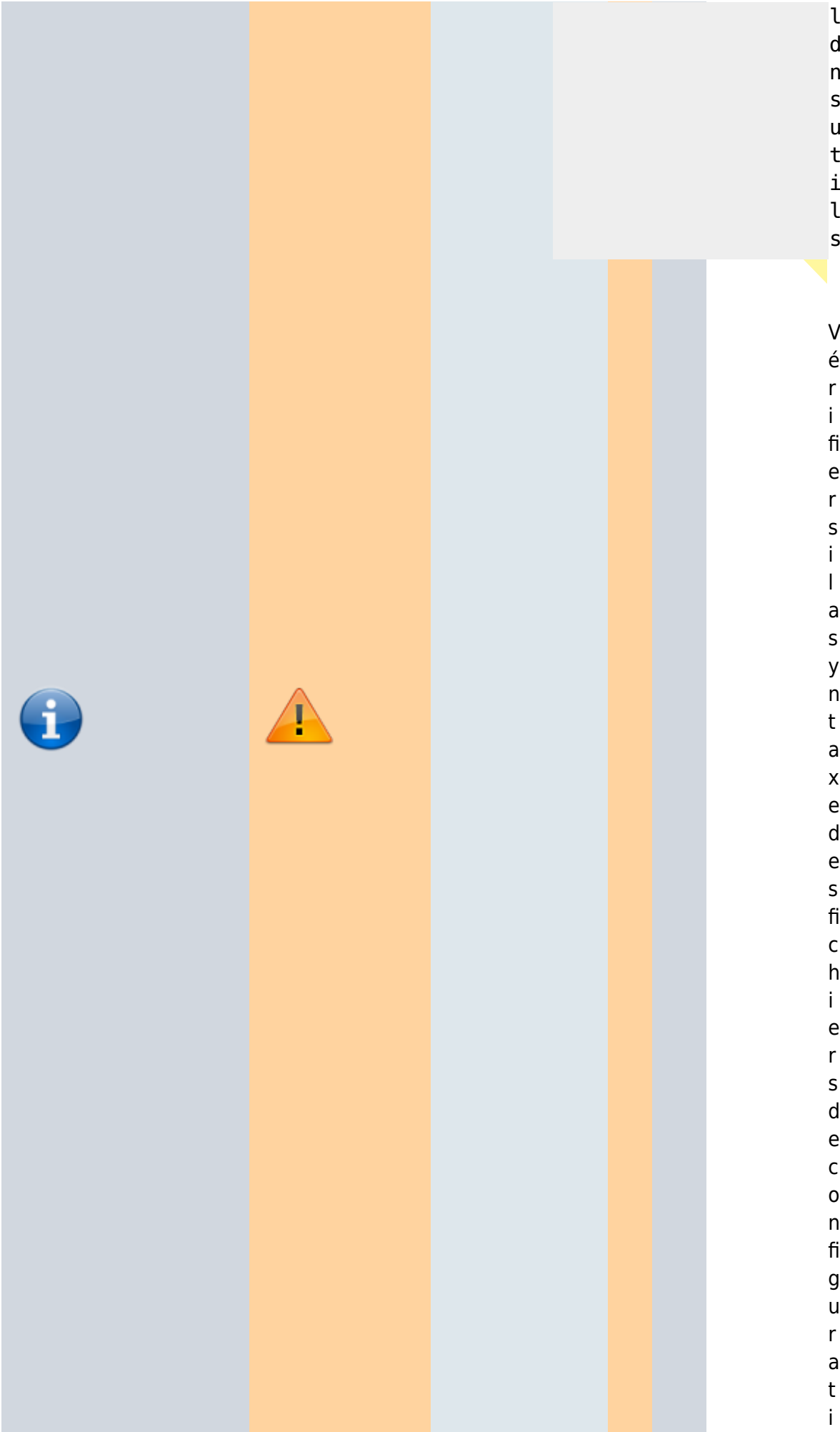
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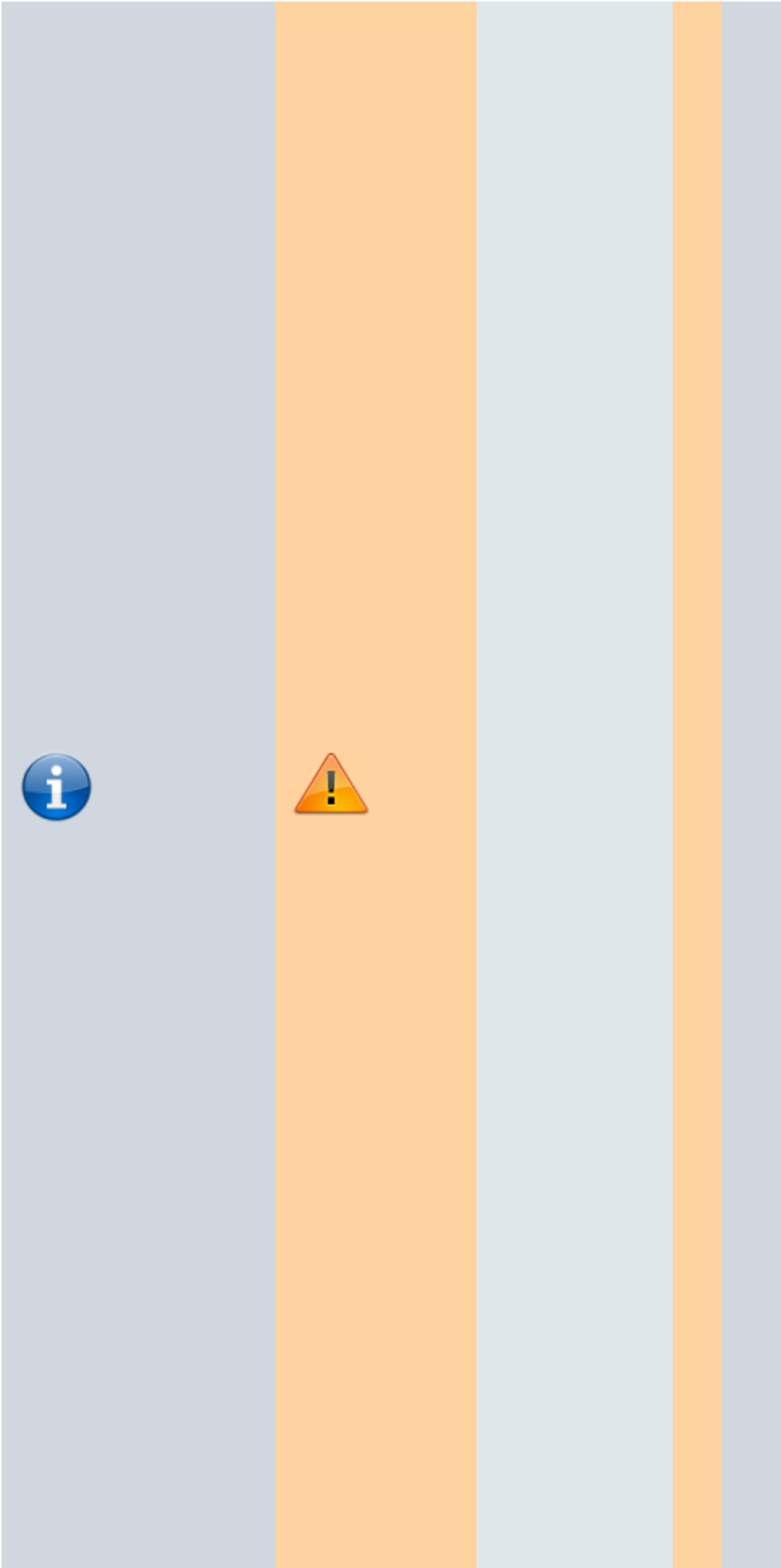


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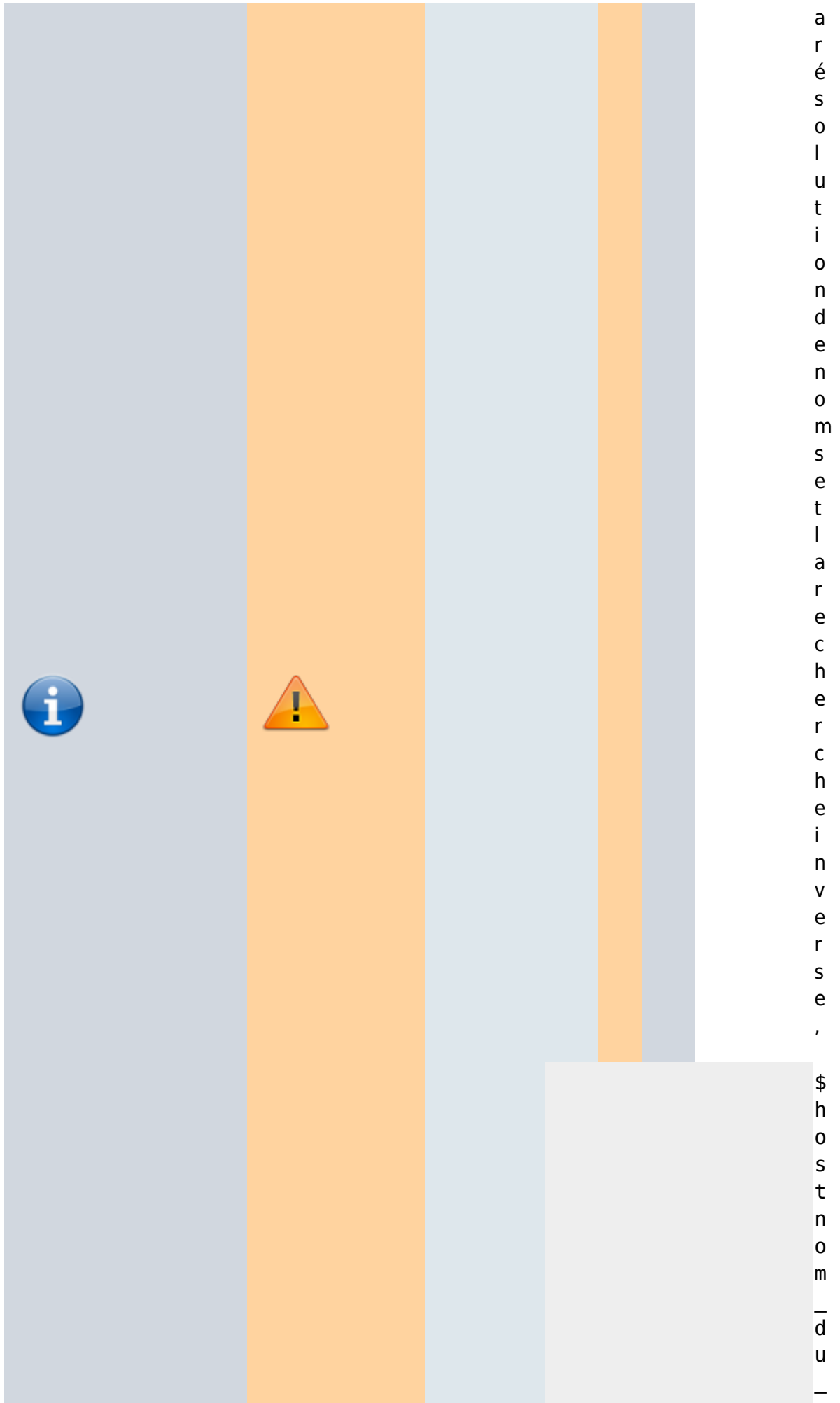


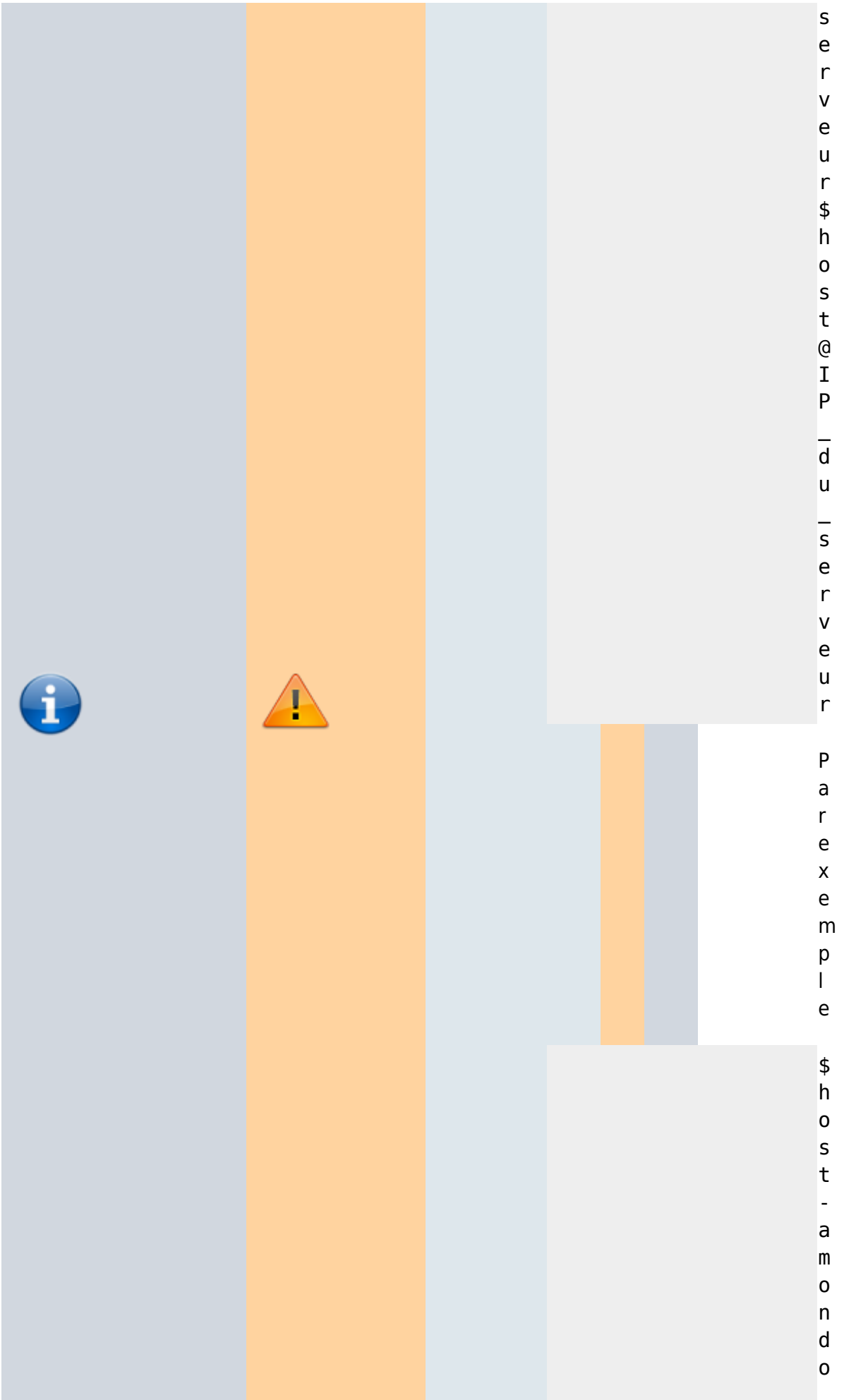
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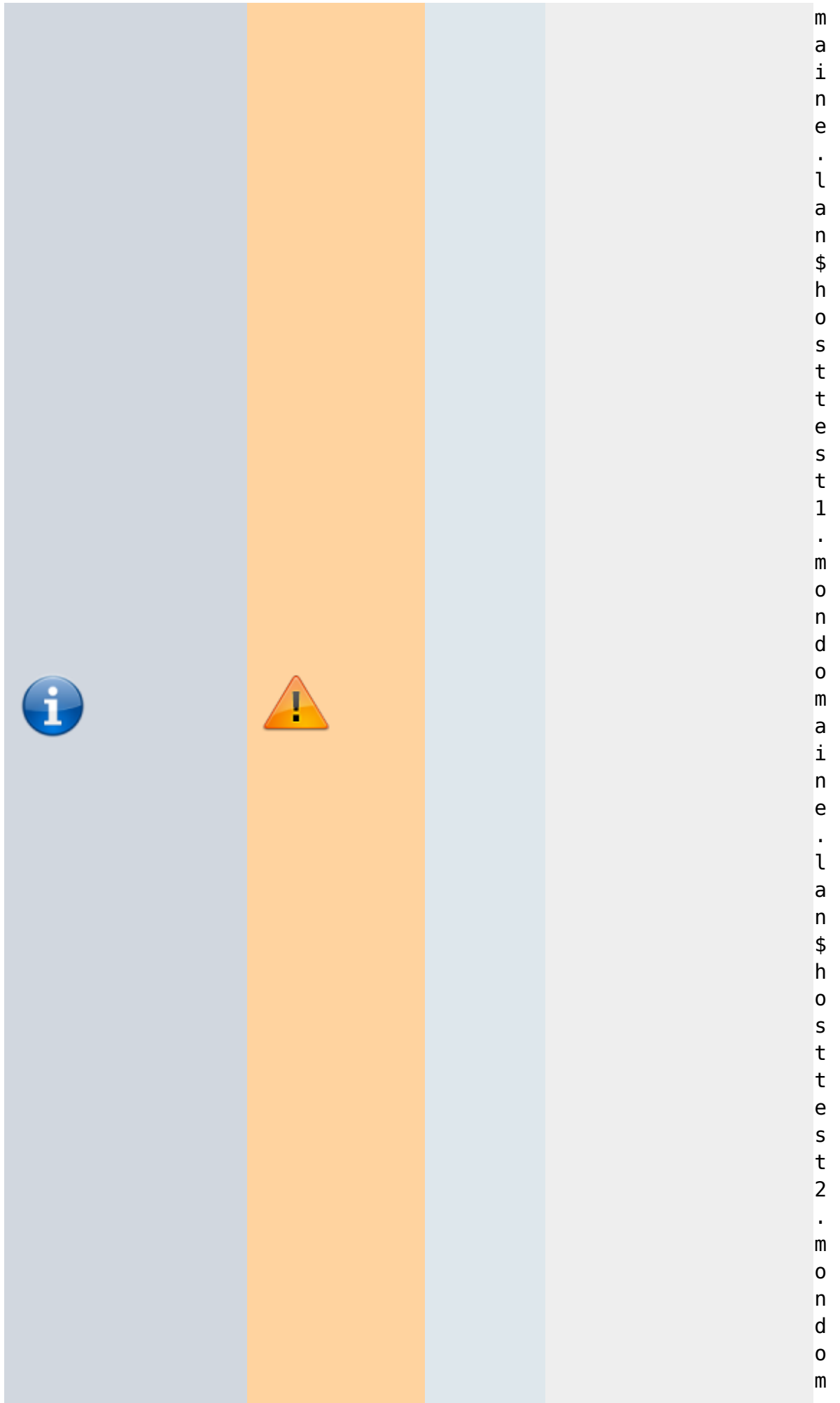
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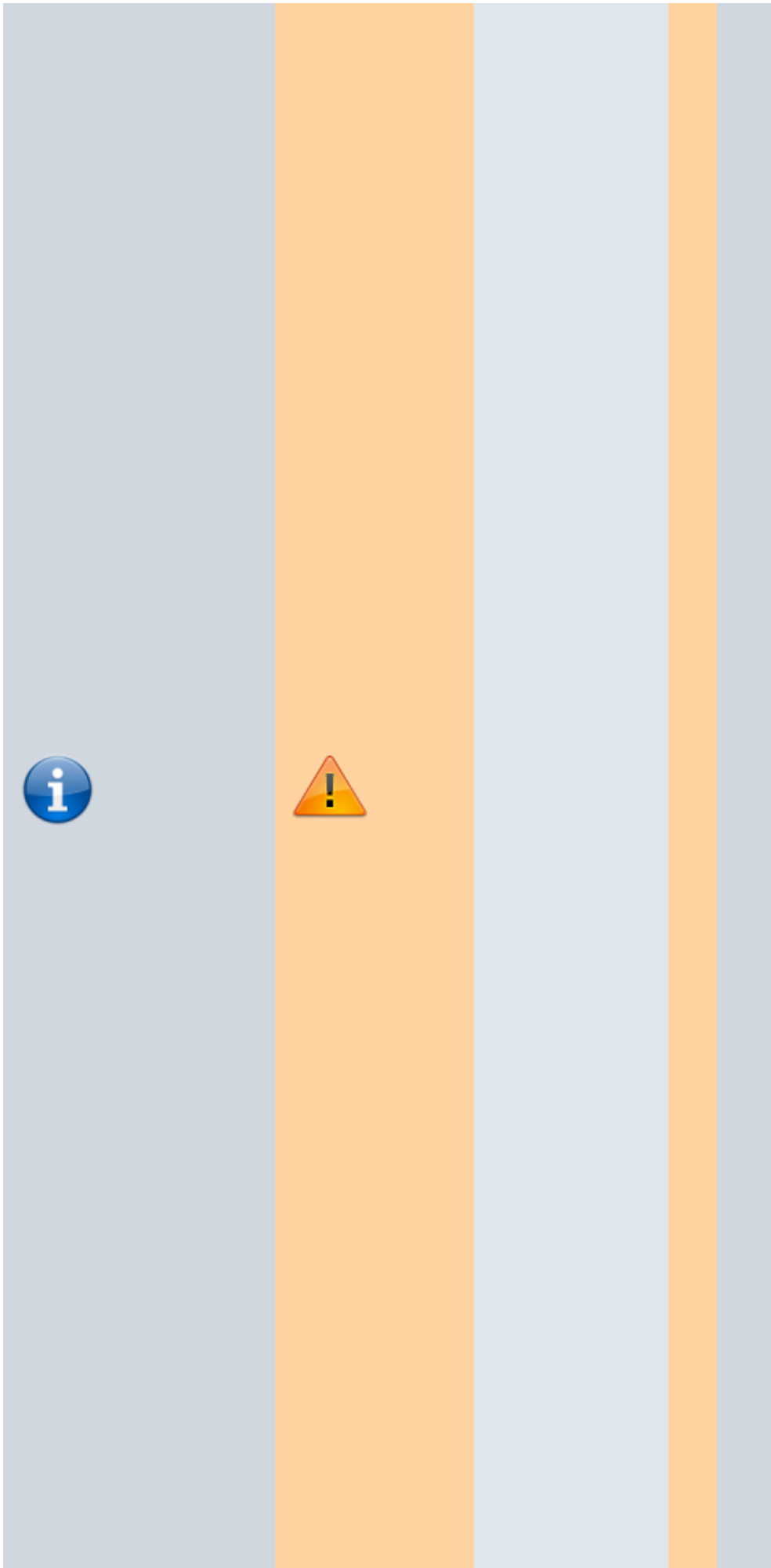




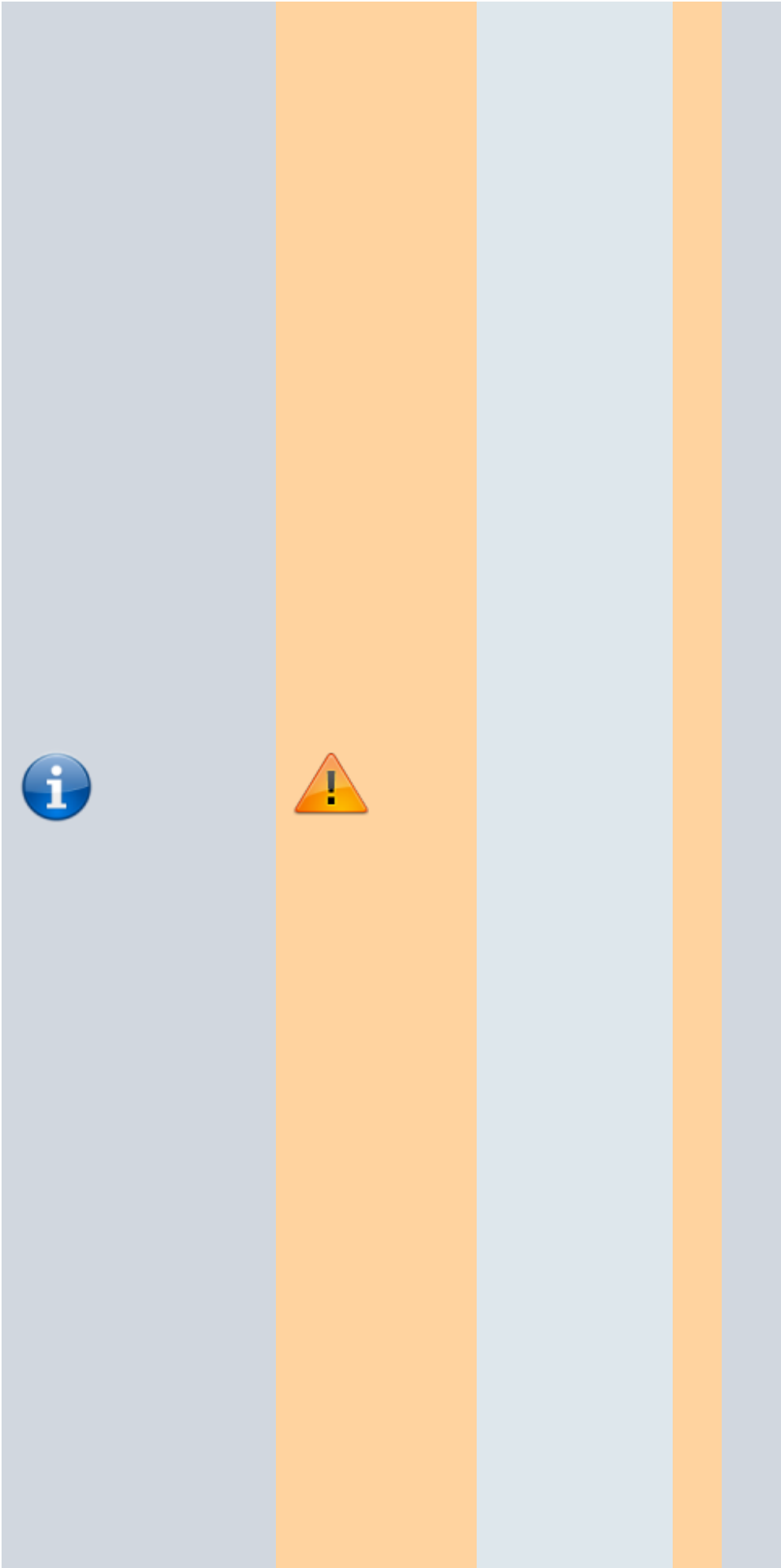


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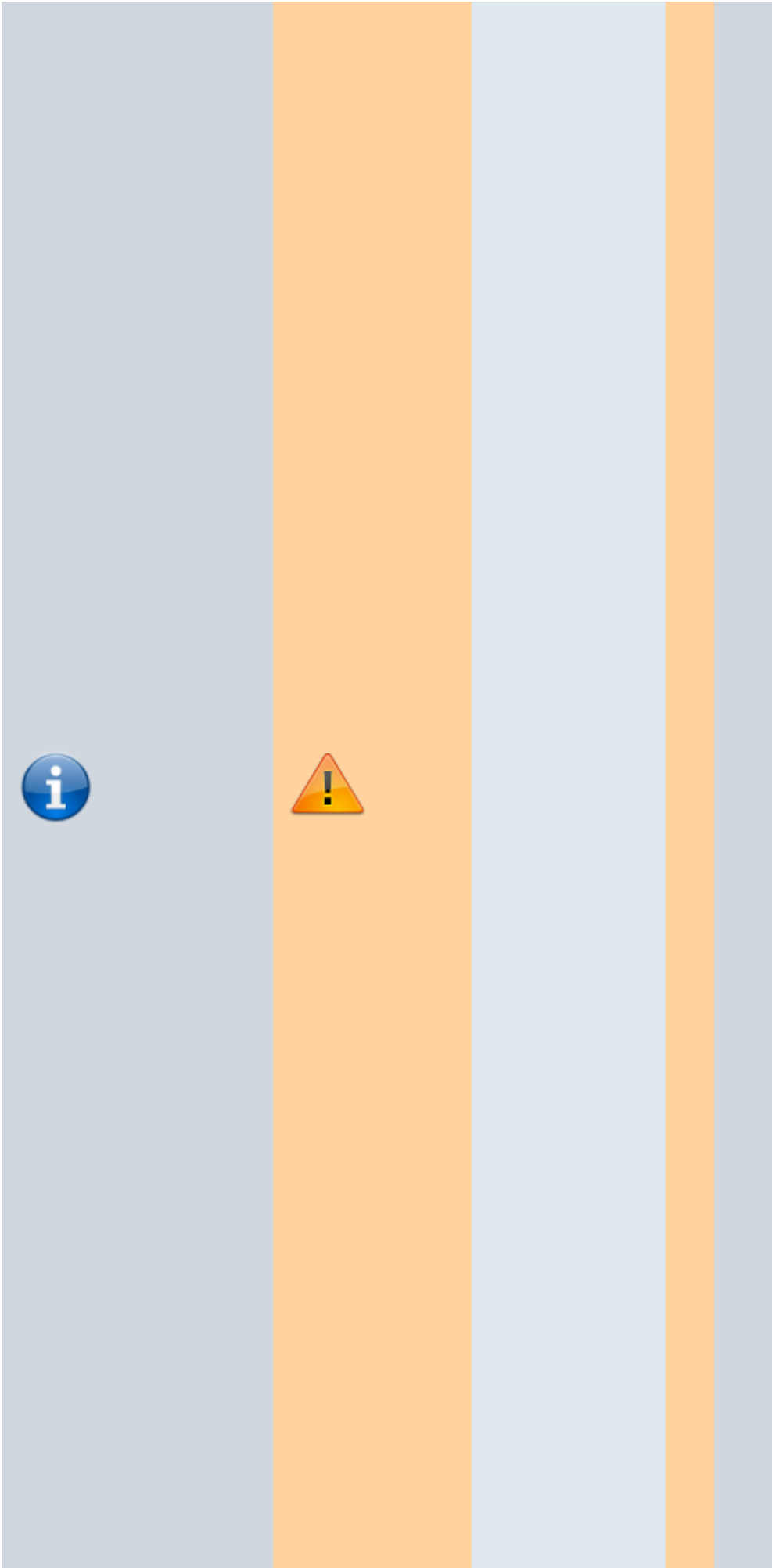
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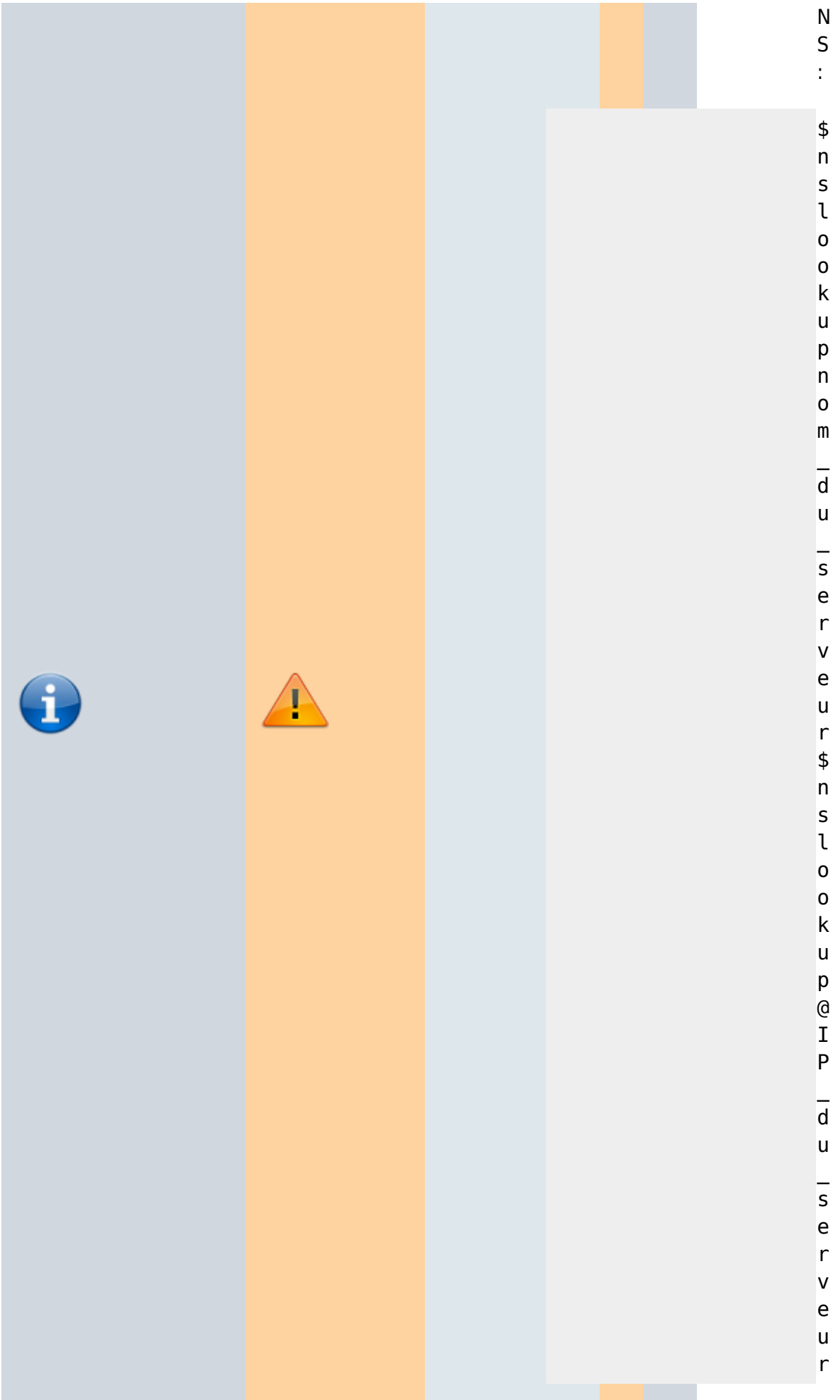
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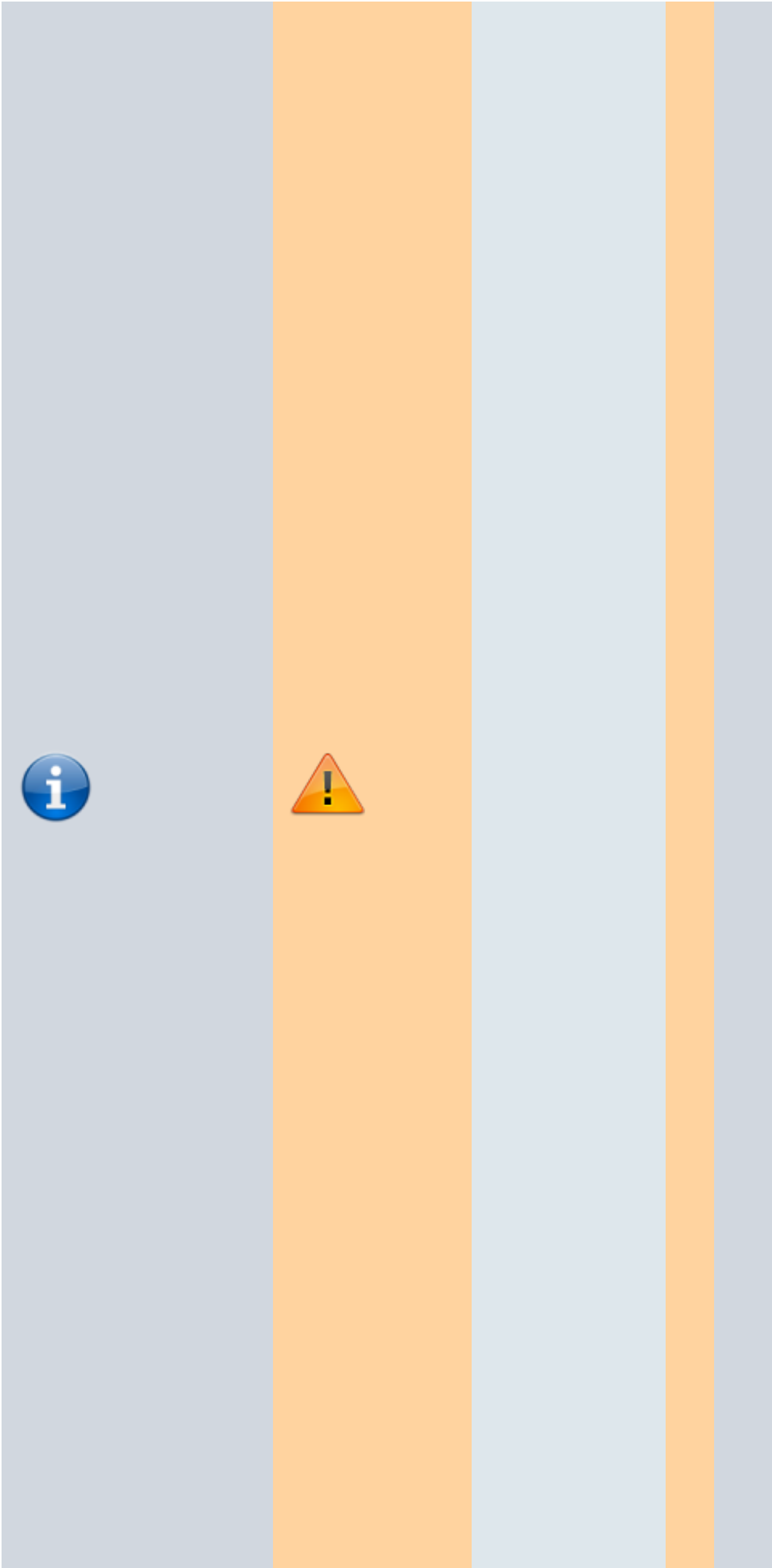
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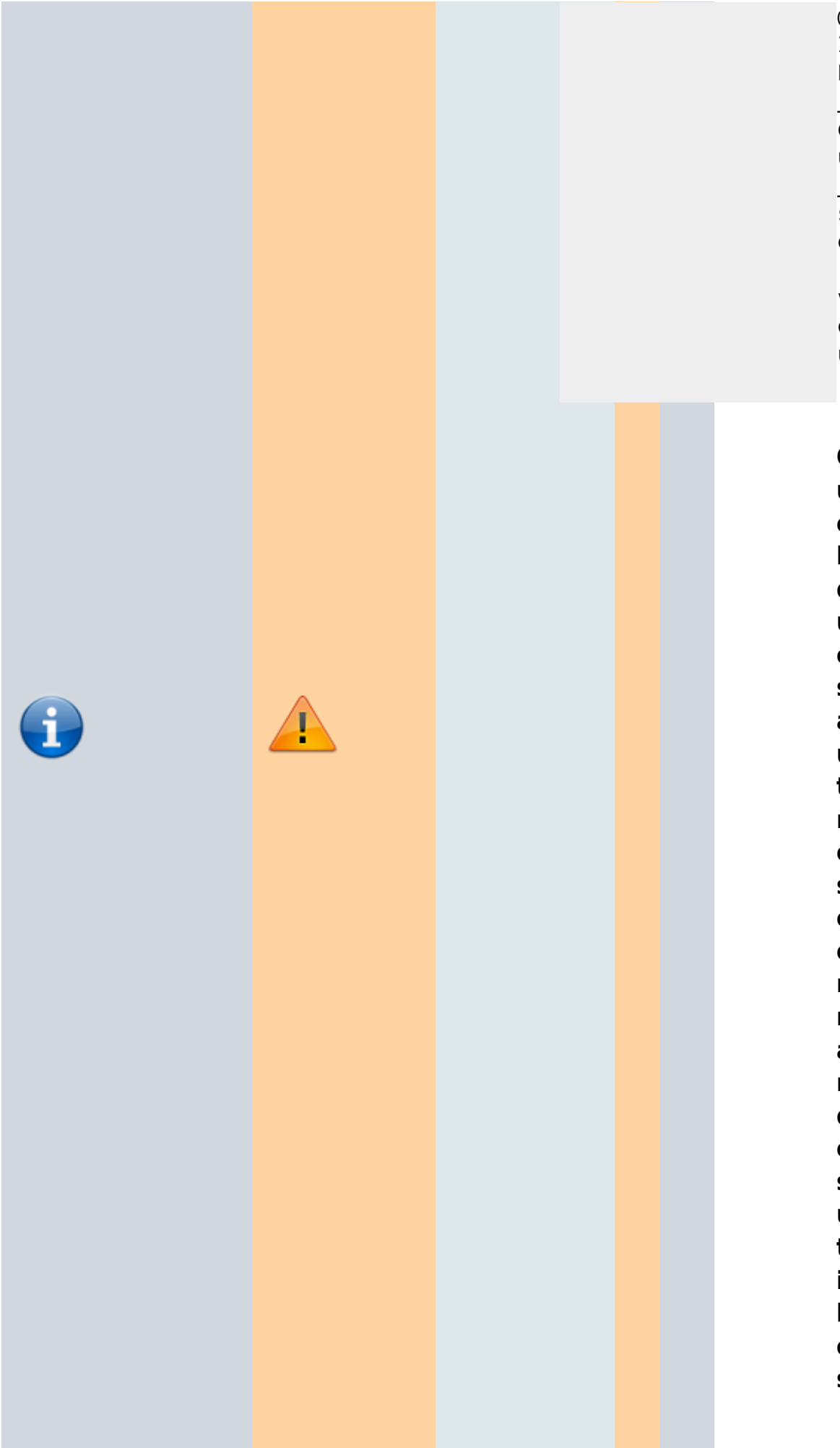


The graphic consists of three vertical panels. The left panel is blue and contains a white information icon. The middle panel is orange and contains a yellow warning icon. The right panel is light blue and contains a white rectangular box. The text 'NSLOOKUP - du serveur \$NSLOOKUP@IP - du serveur' is written vertically on the right side of the white box.



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The graphic consists of a light blue background. A vertical orange stripe runs down the center. On the left side, there is a blue circular icon with a white lowercase letter 'i'. On the orange stripe, there is a yellow triangular warning icon with a black exclamation mark. On the right side, there is a white rectangular box. To the right of the white box, the text 'o o k u p p » : \$ d i g n o m - d u - s e r v e u r \$ d i g n o m - d e - d o m a i n e \$ d i g - x' is written vertically.

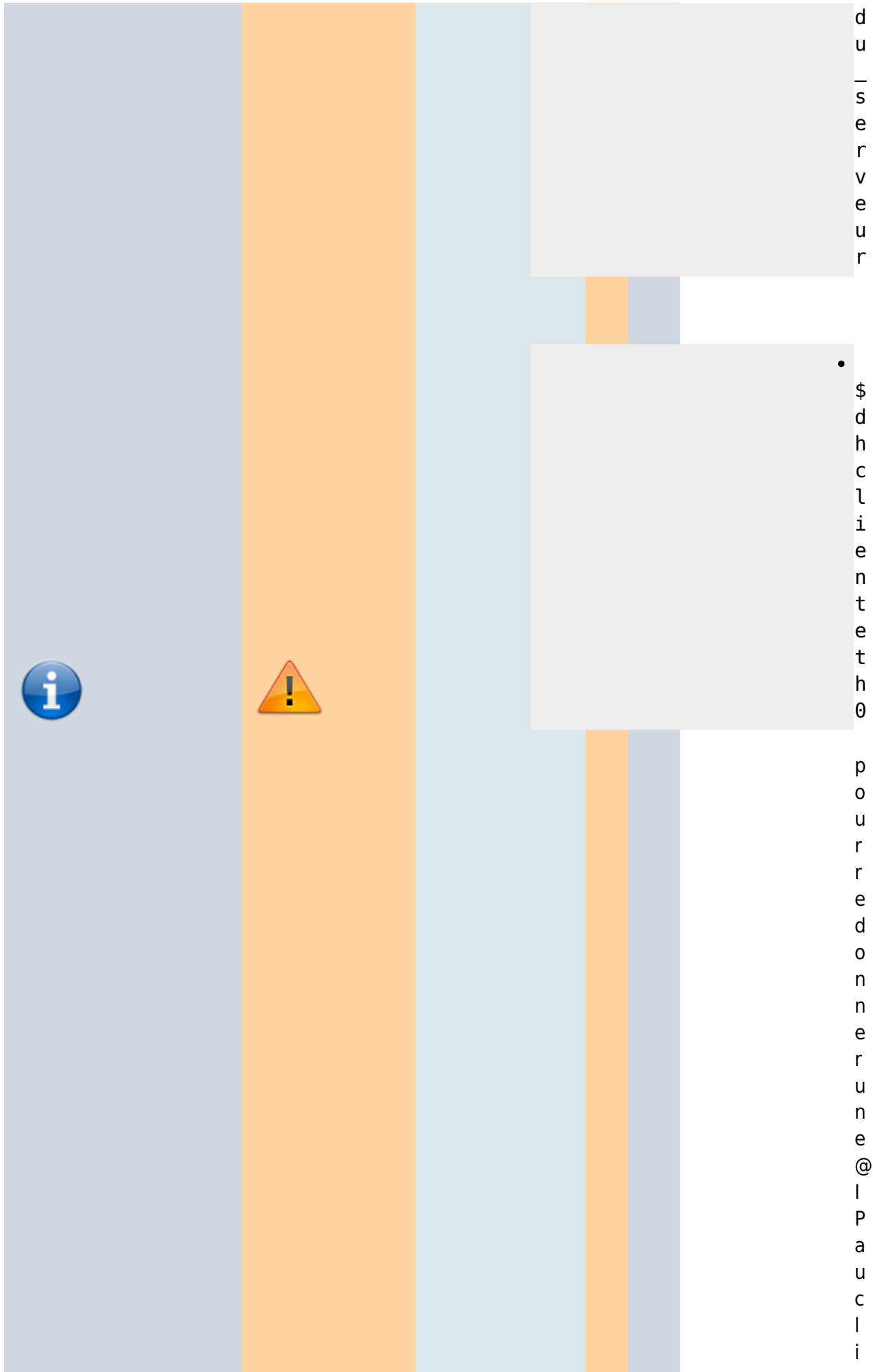


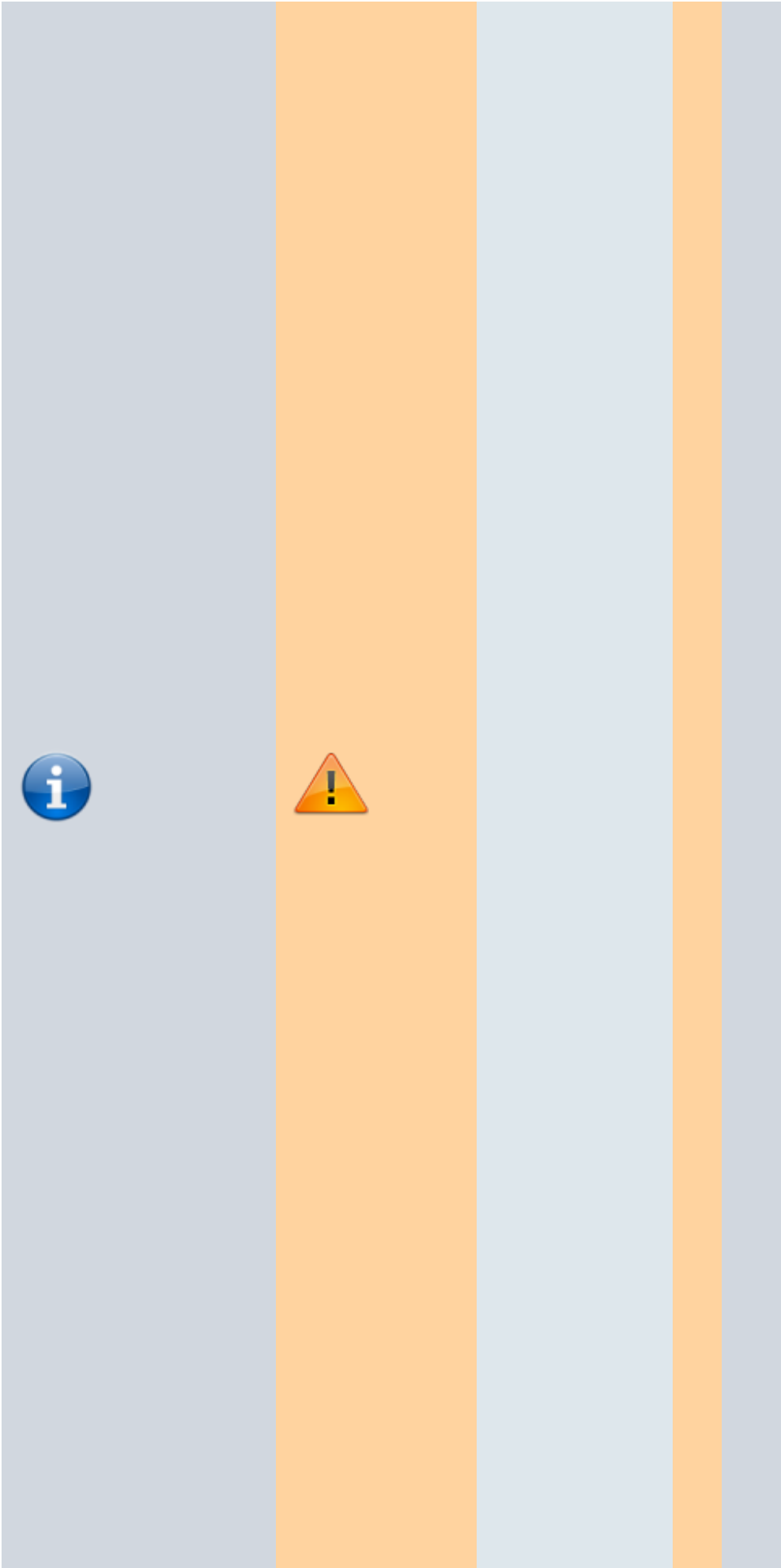
@IP - du - serveur

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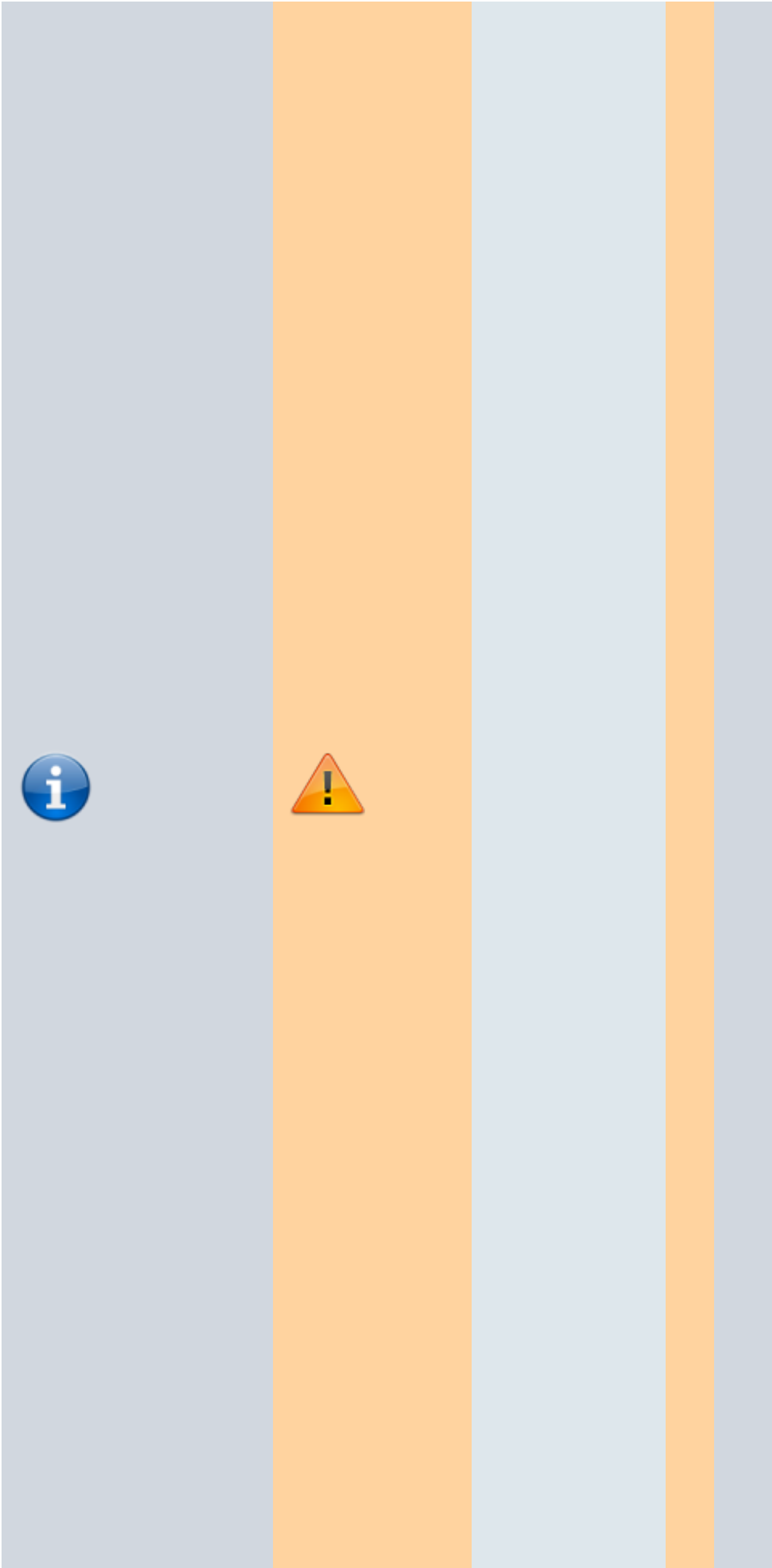




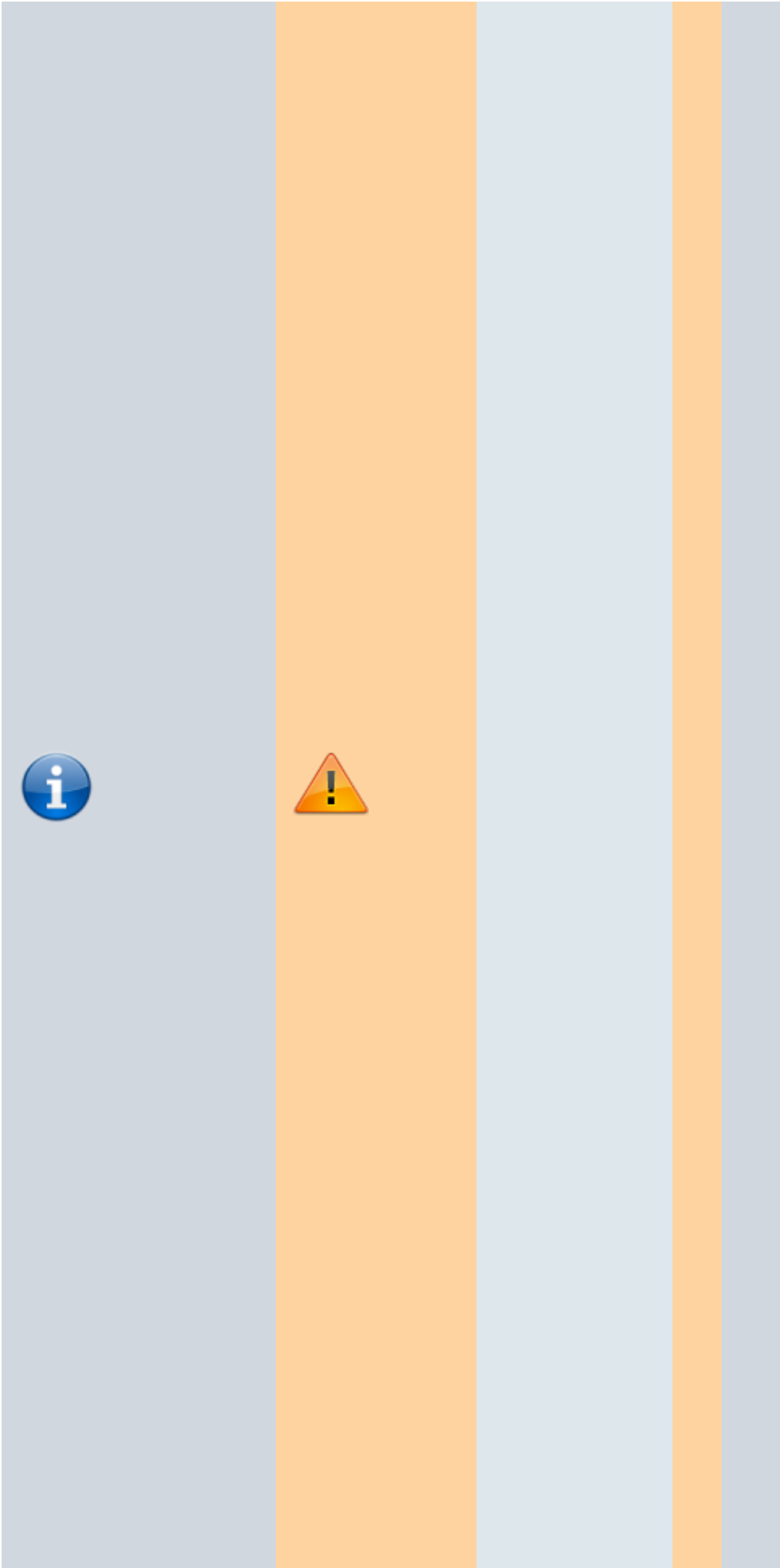
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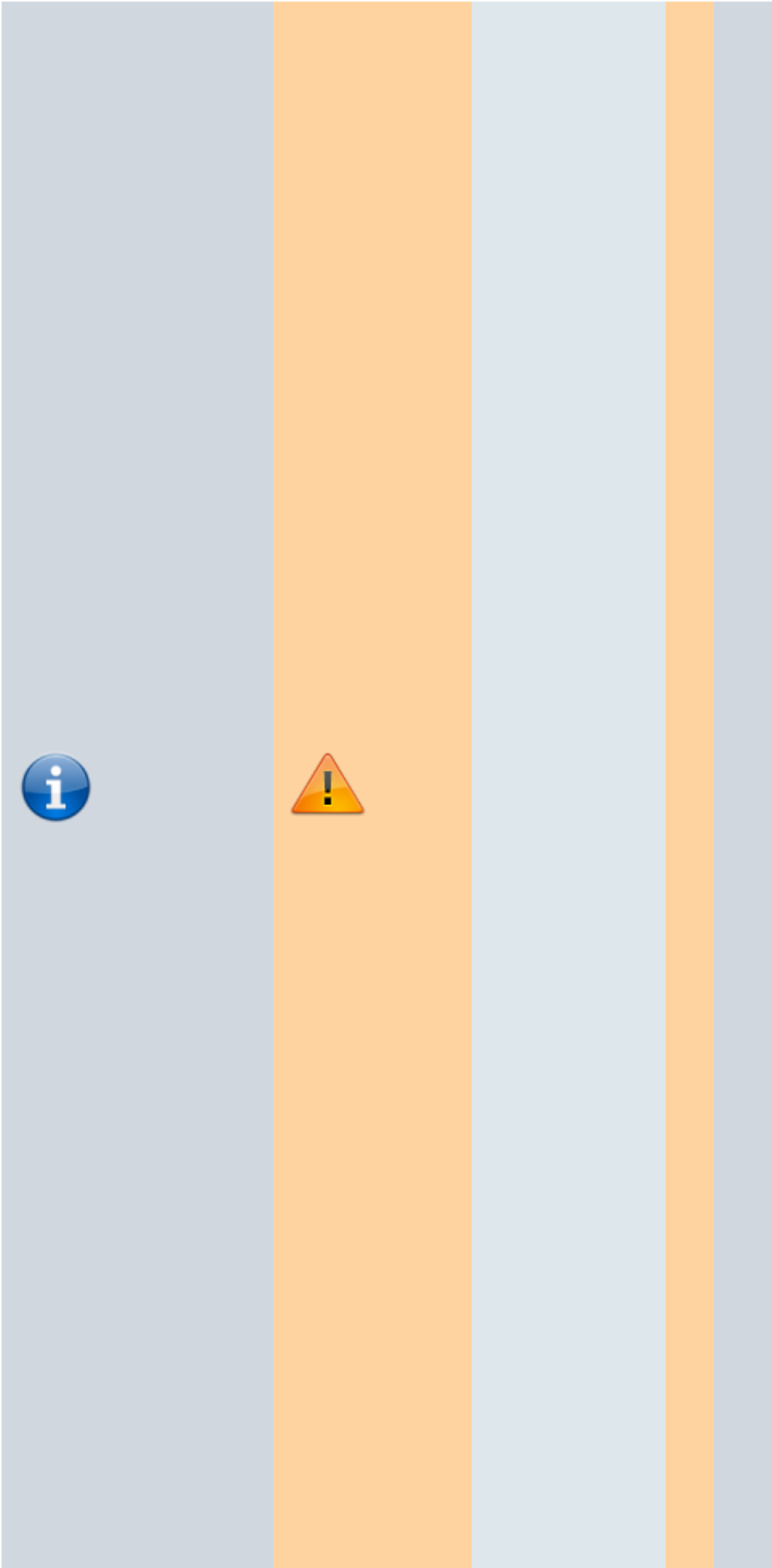
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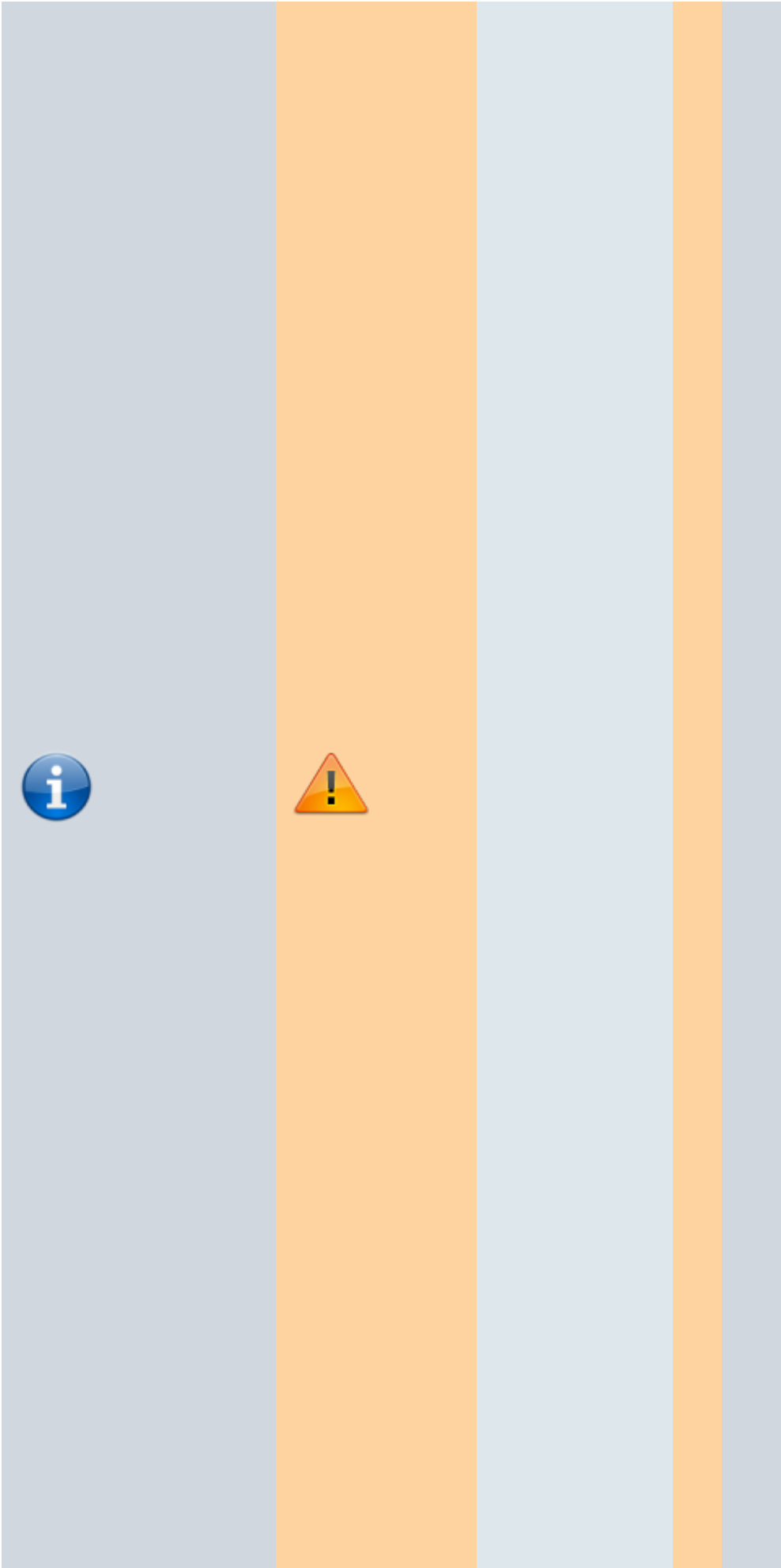
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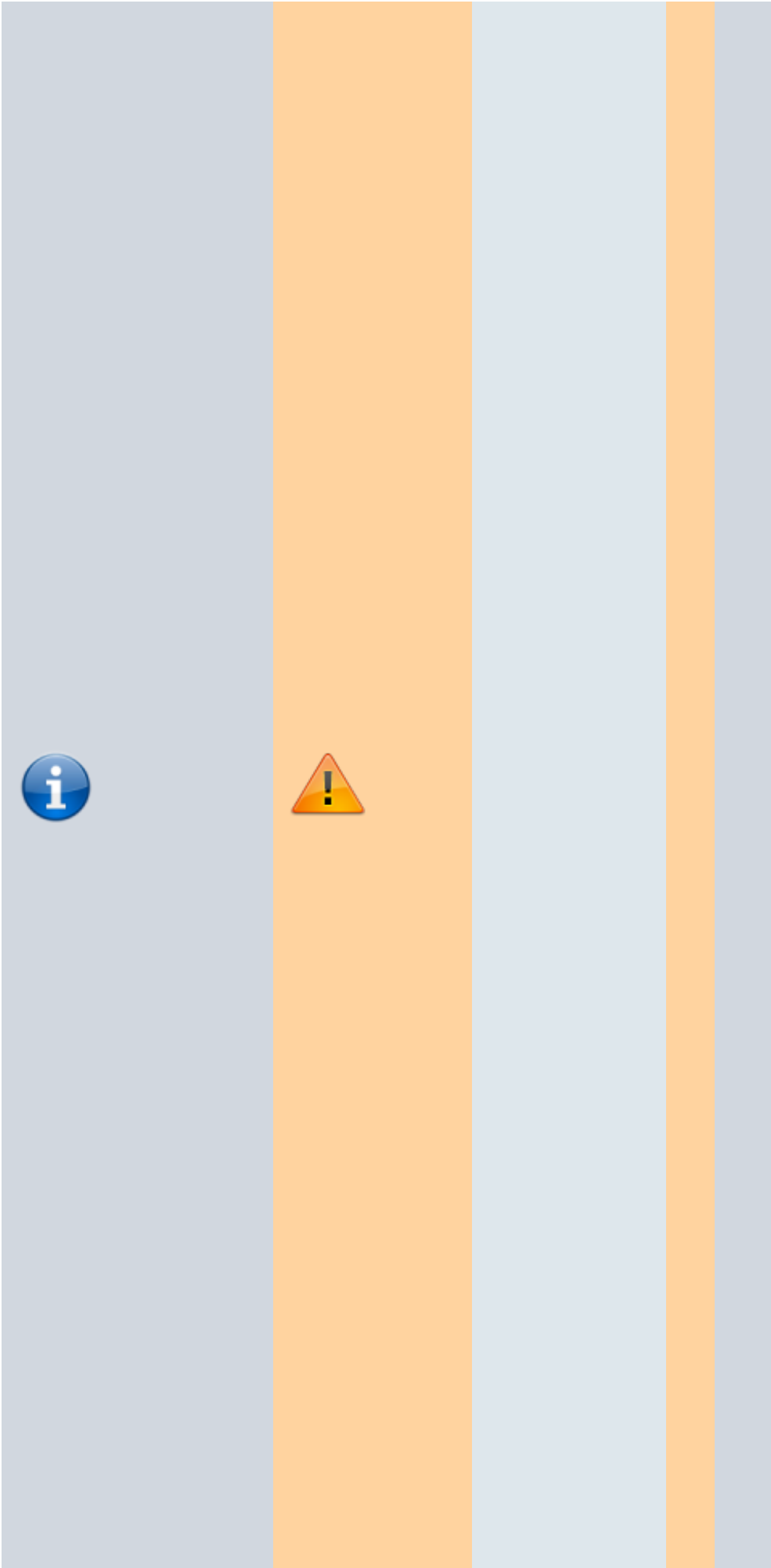
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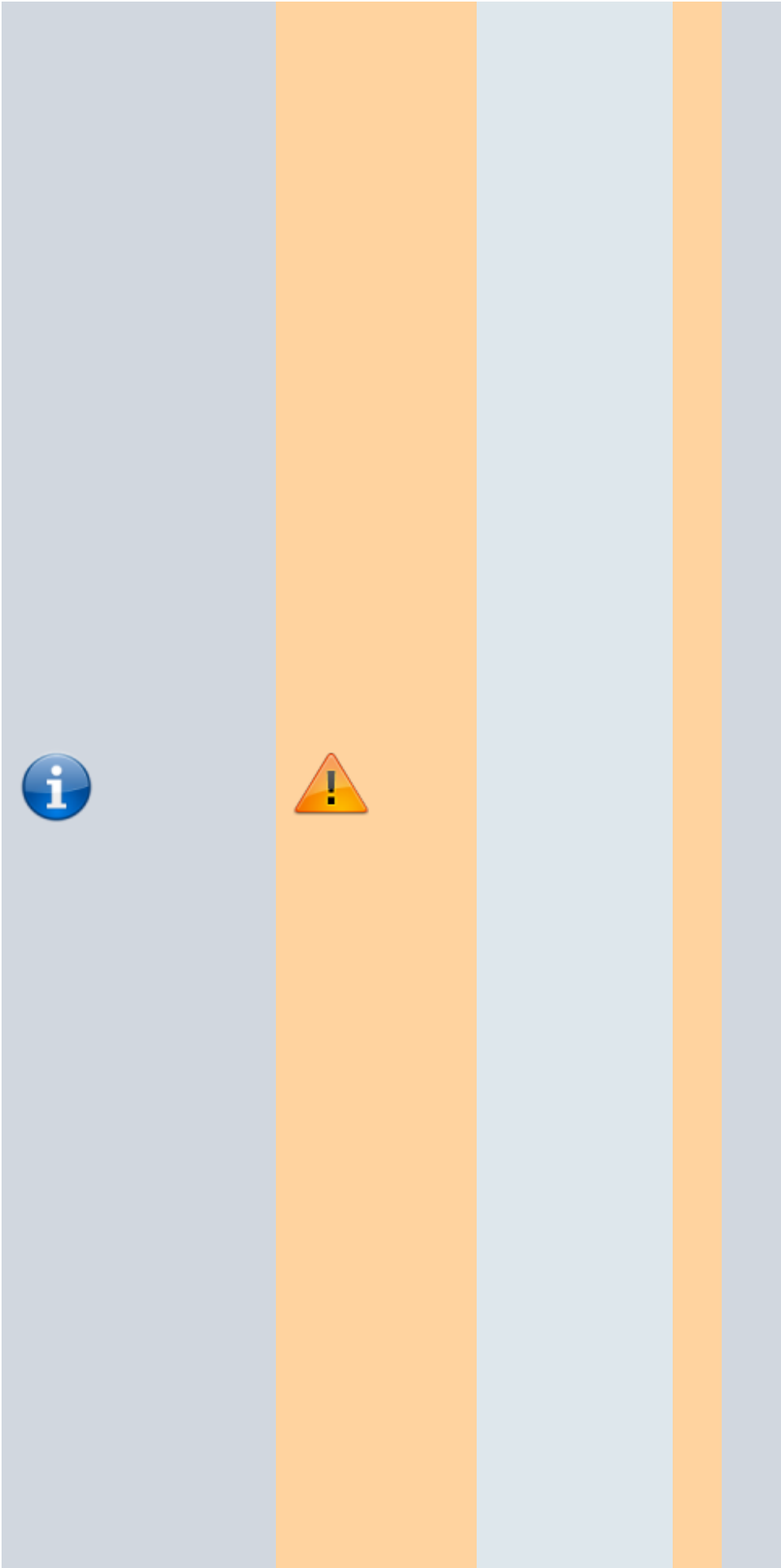
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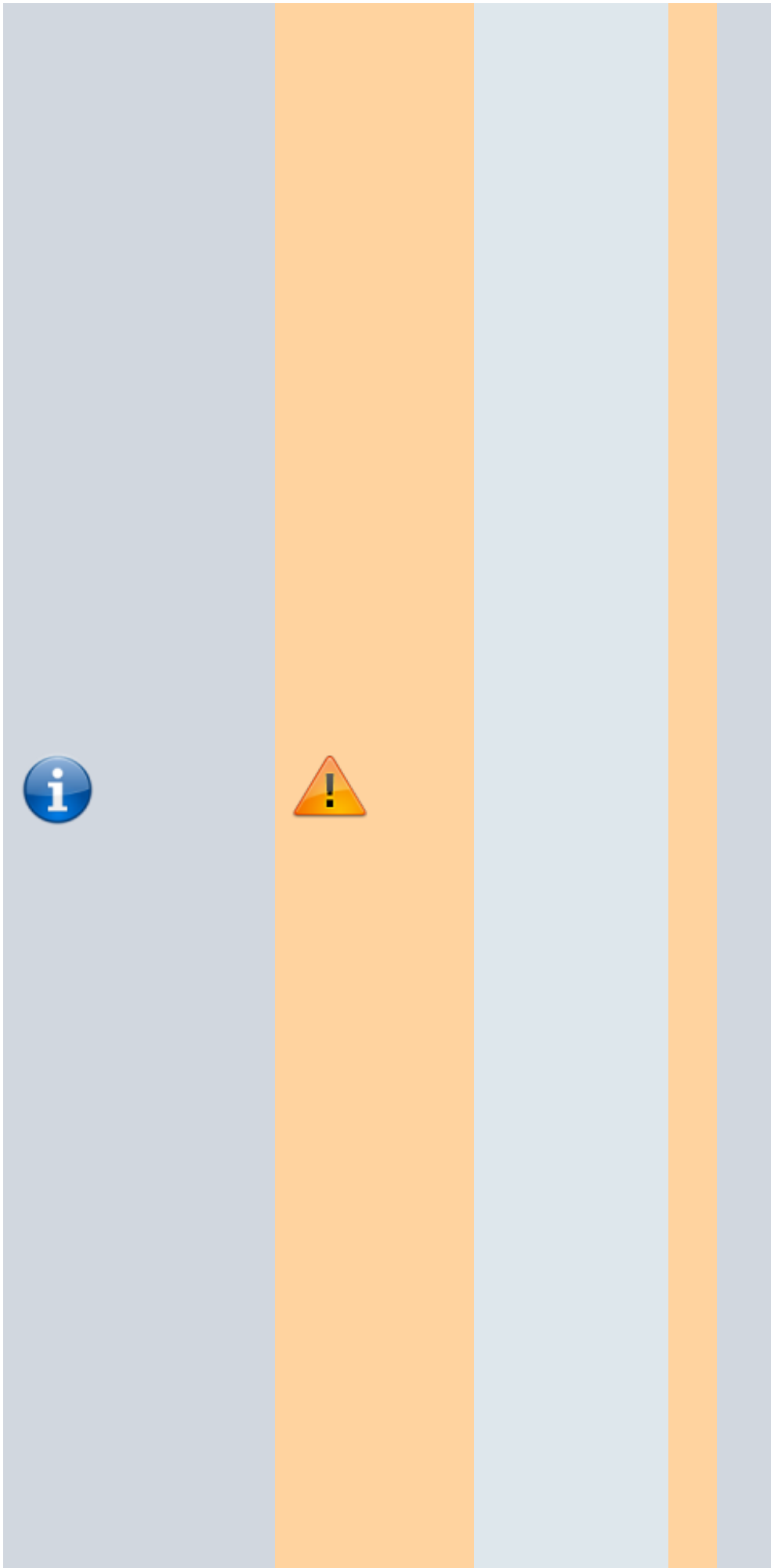
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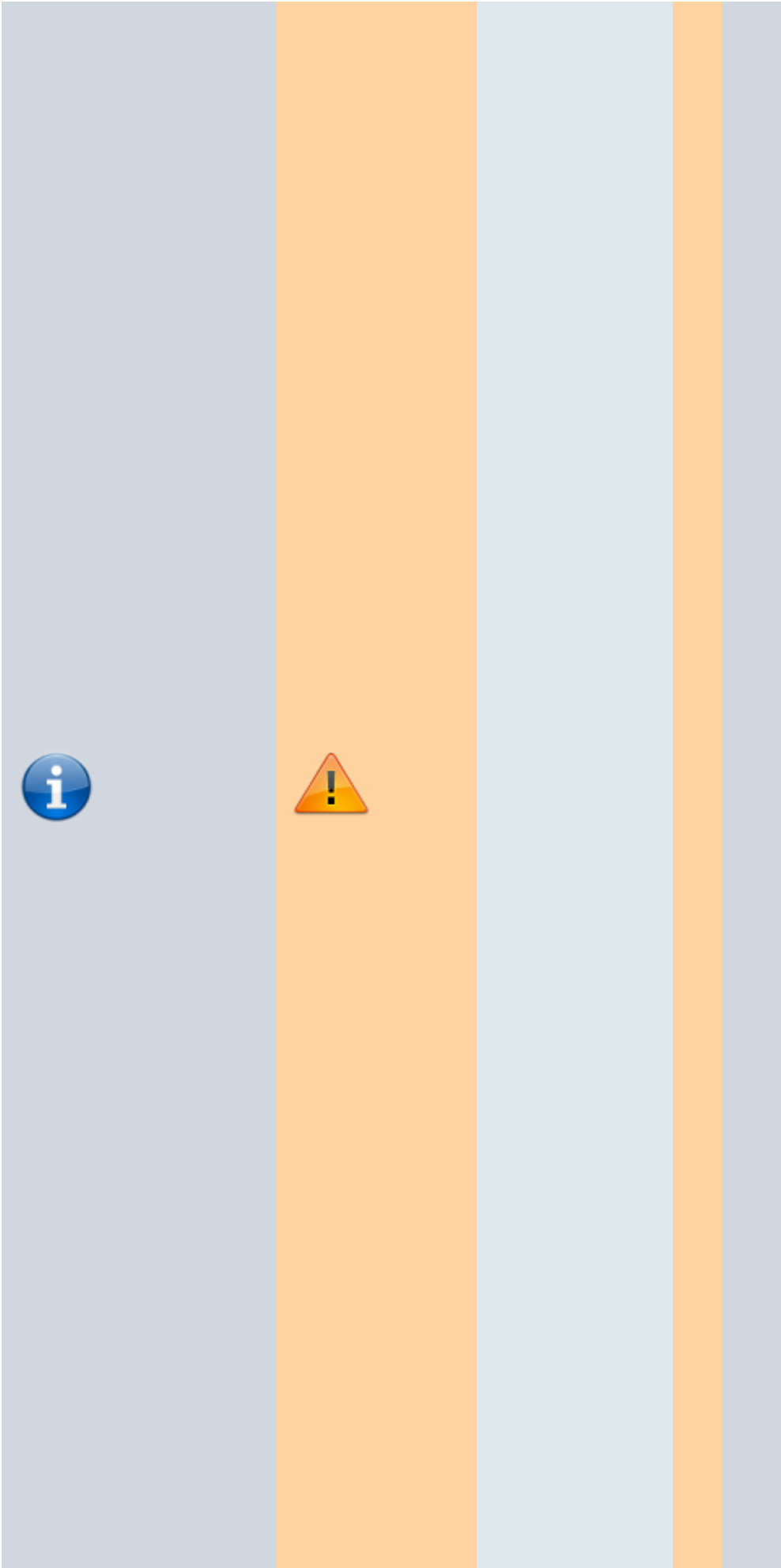
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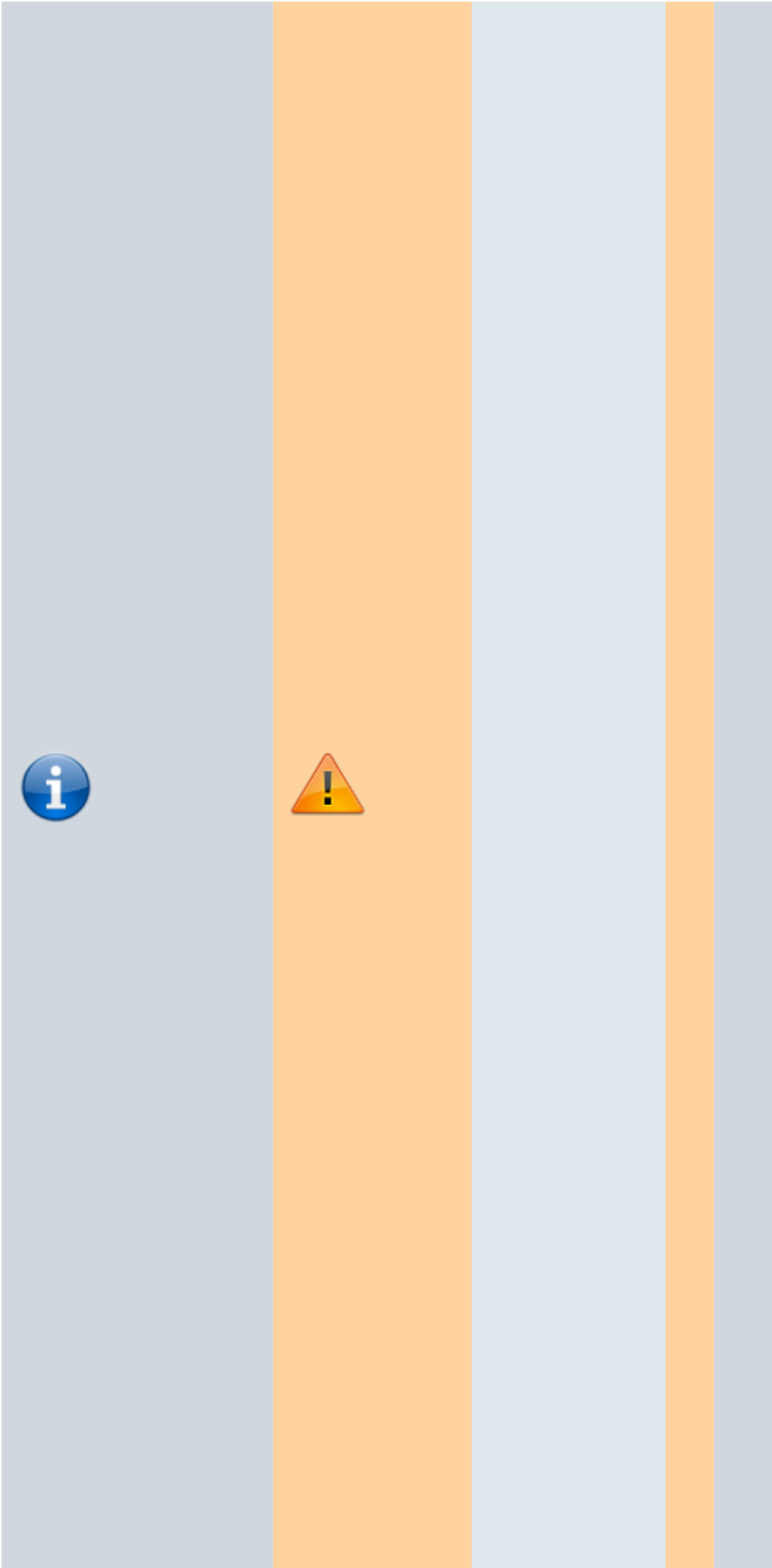
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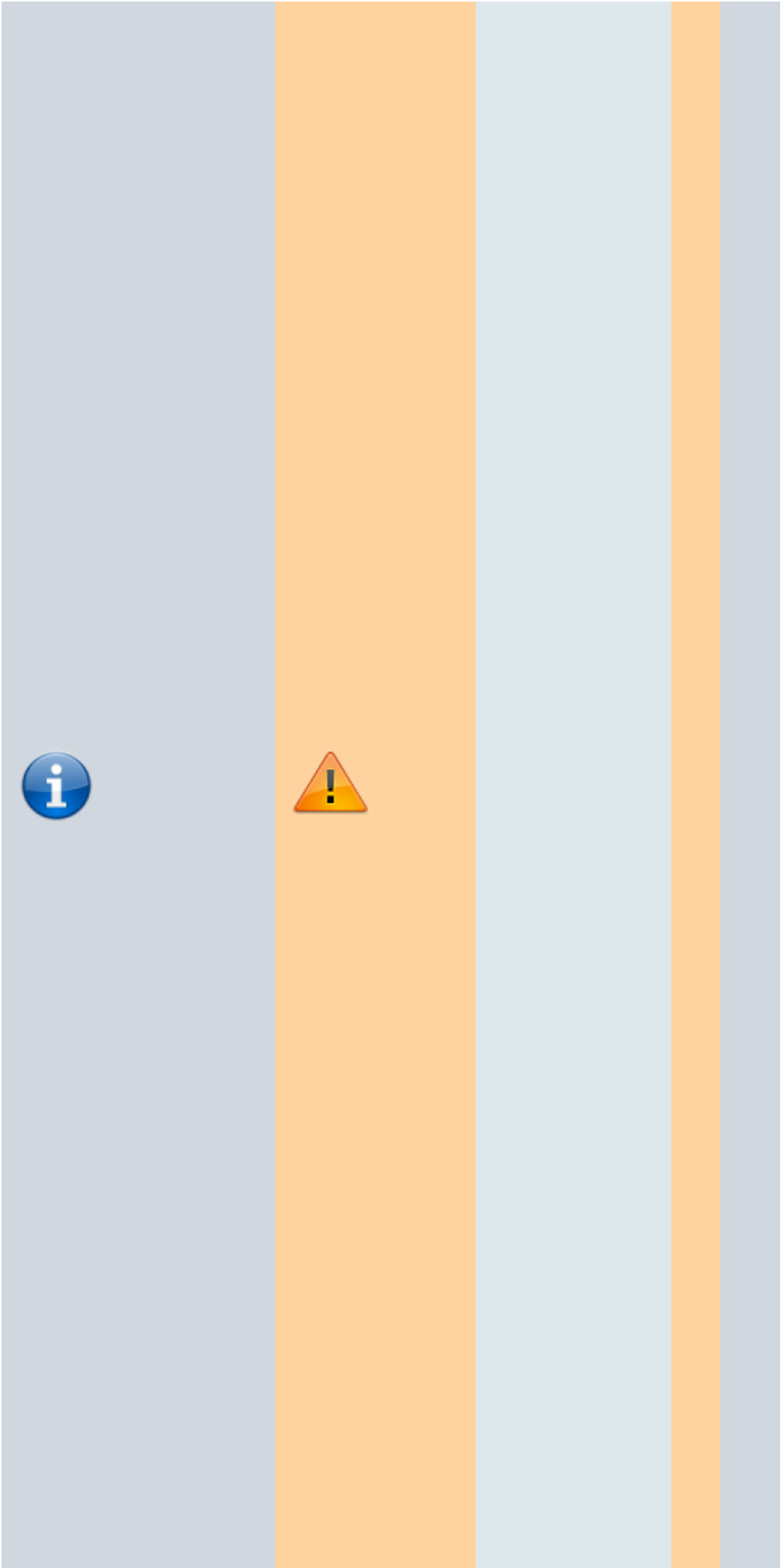
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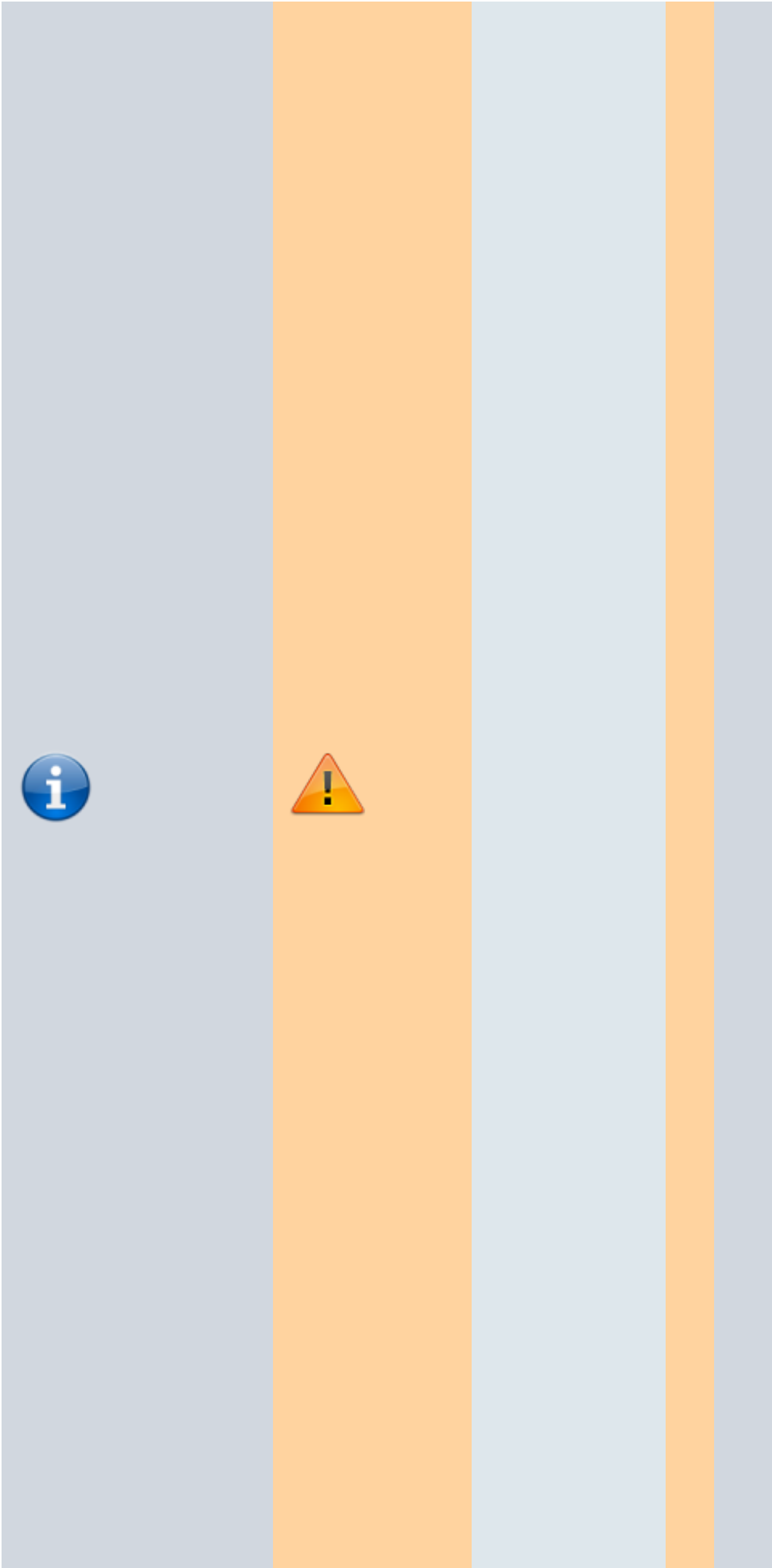
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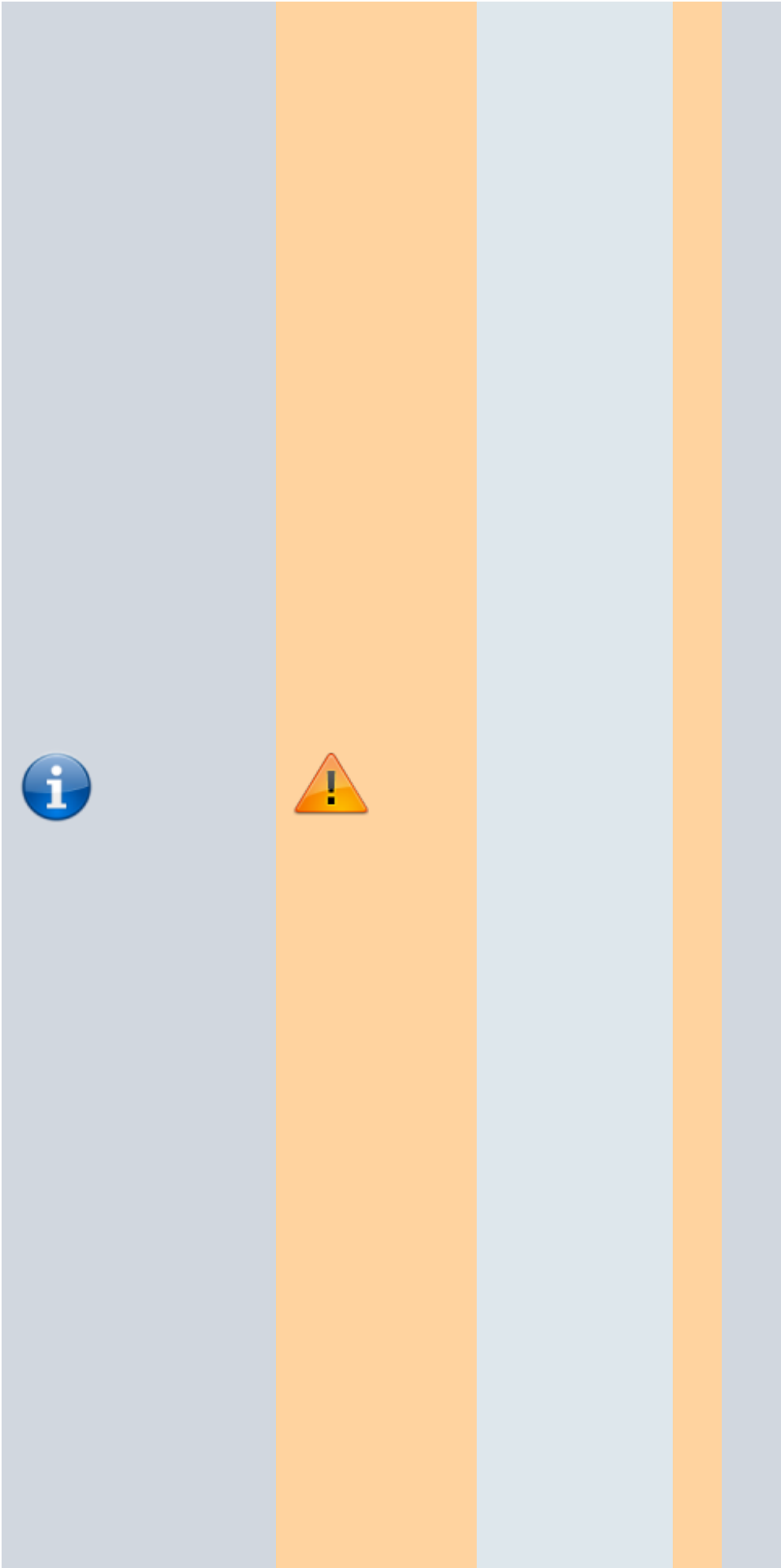
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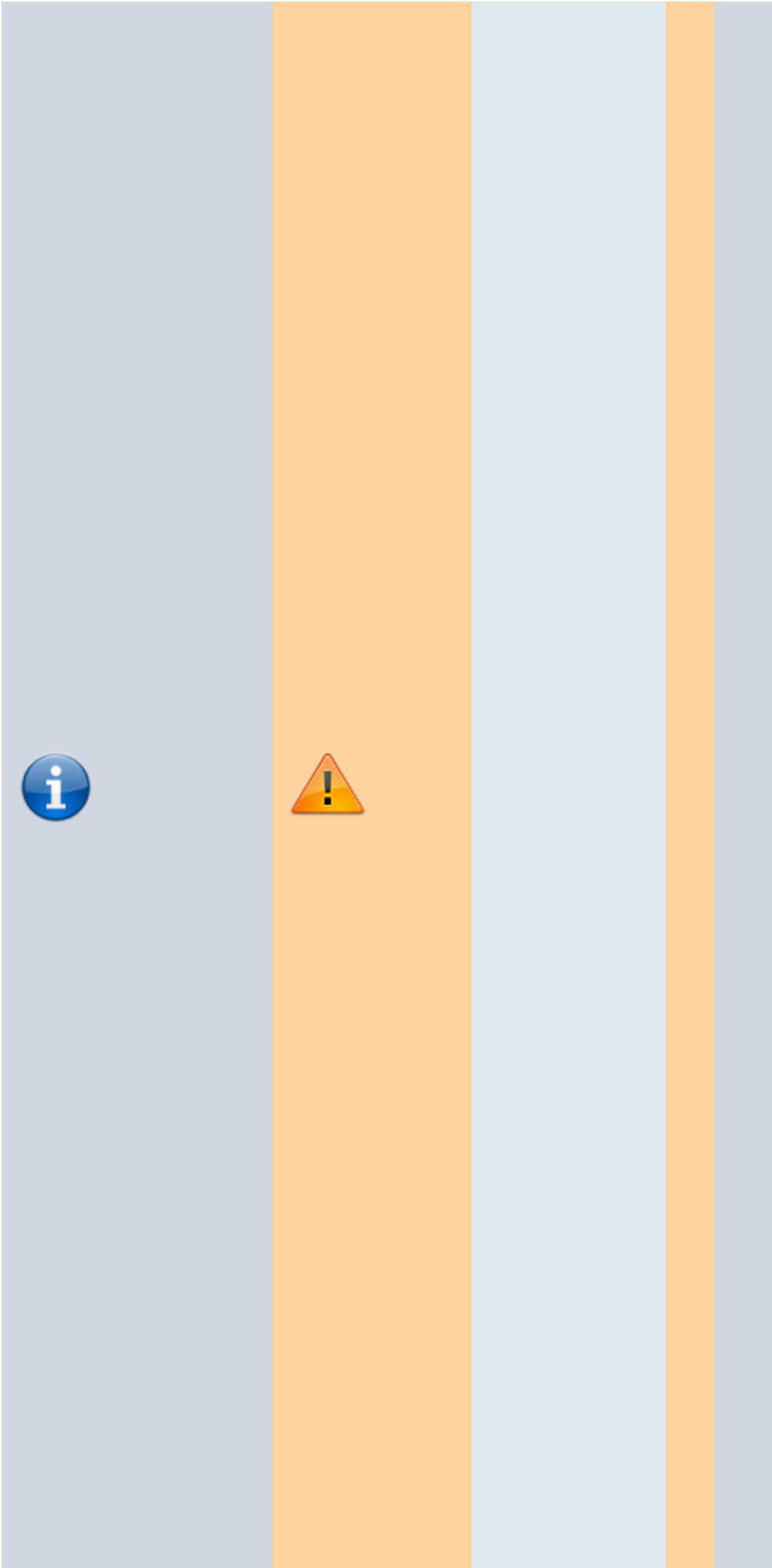
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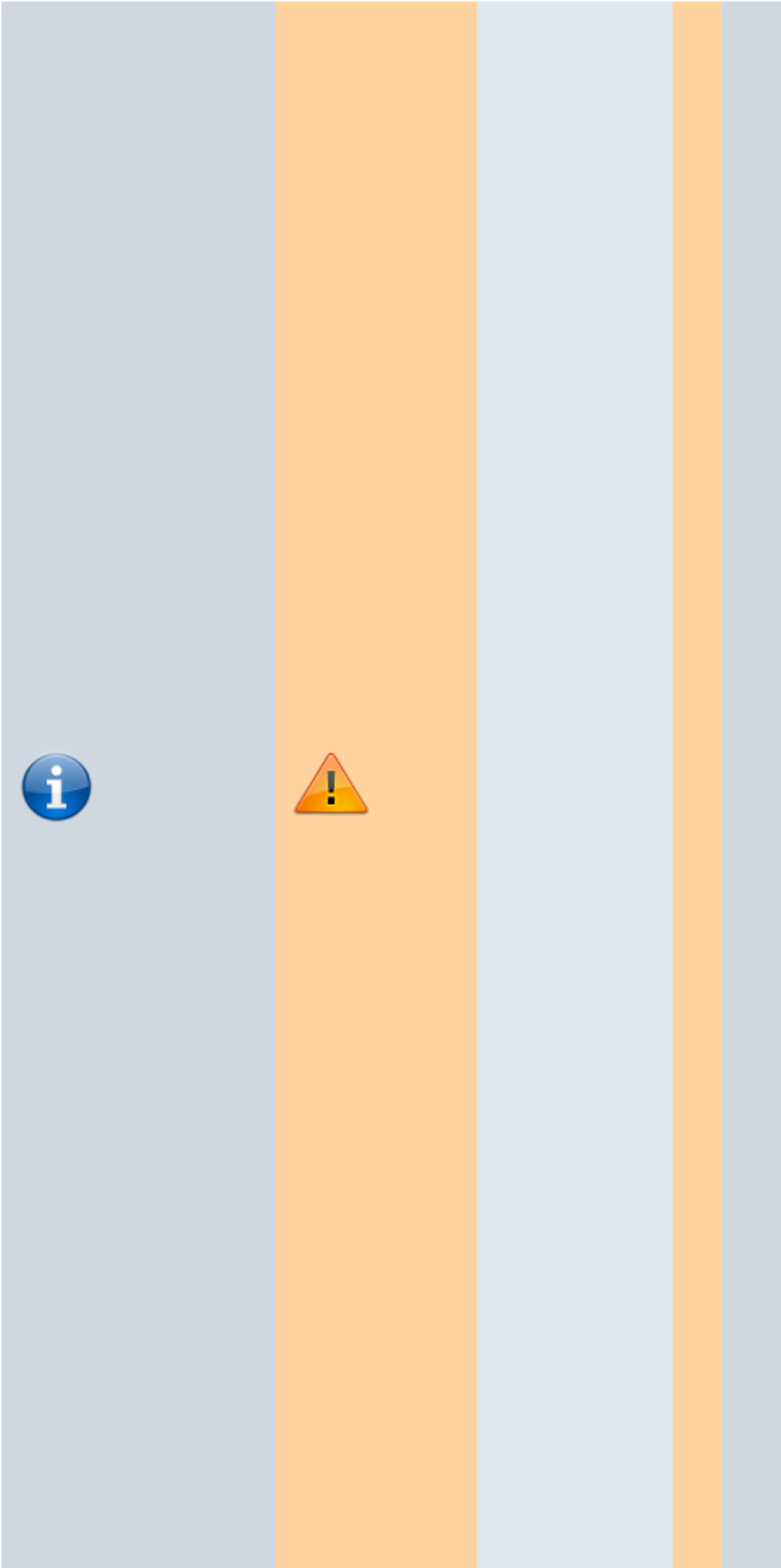


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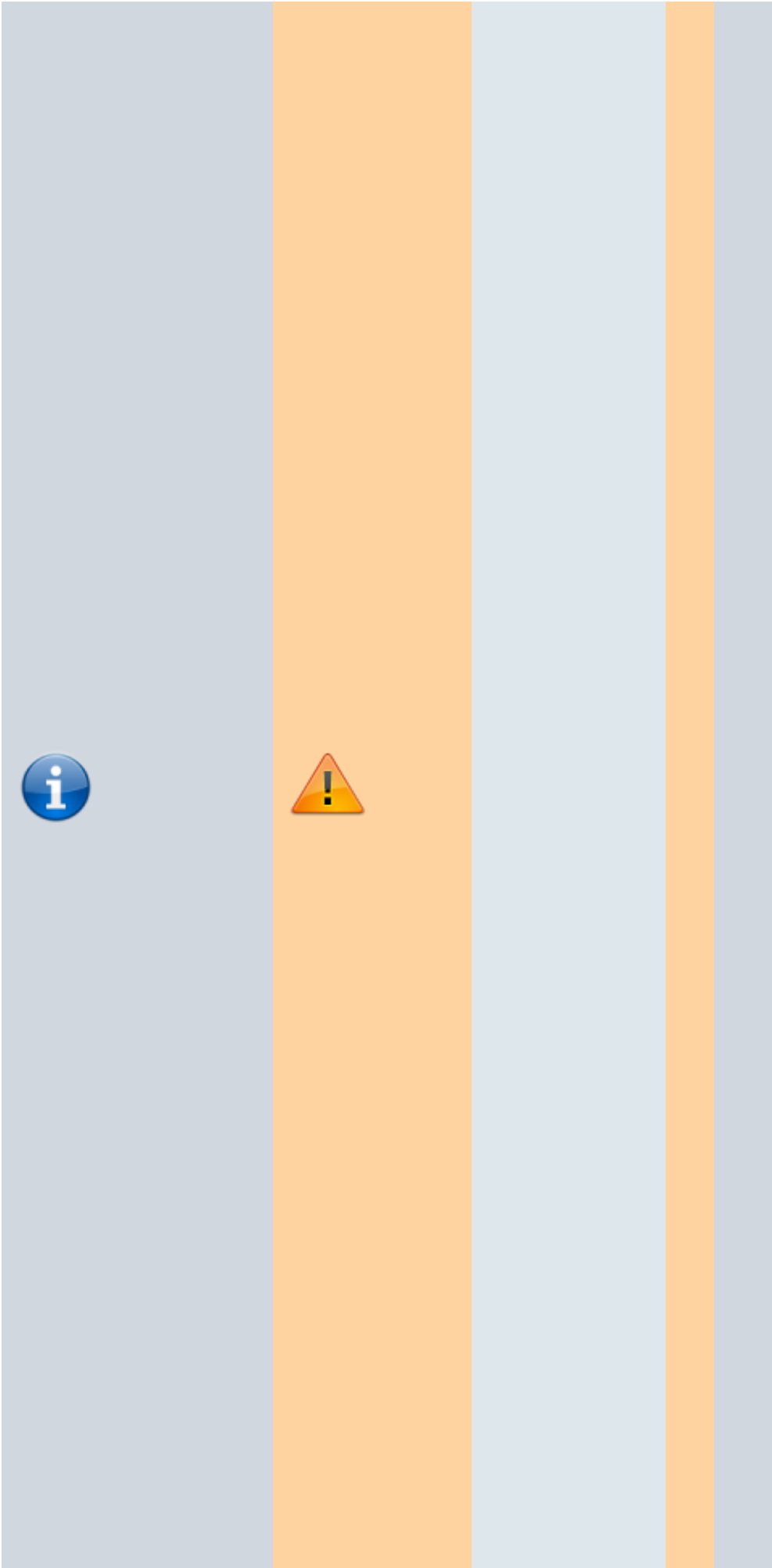


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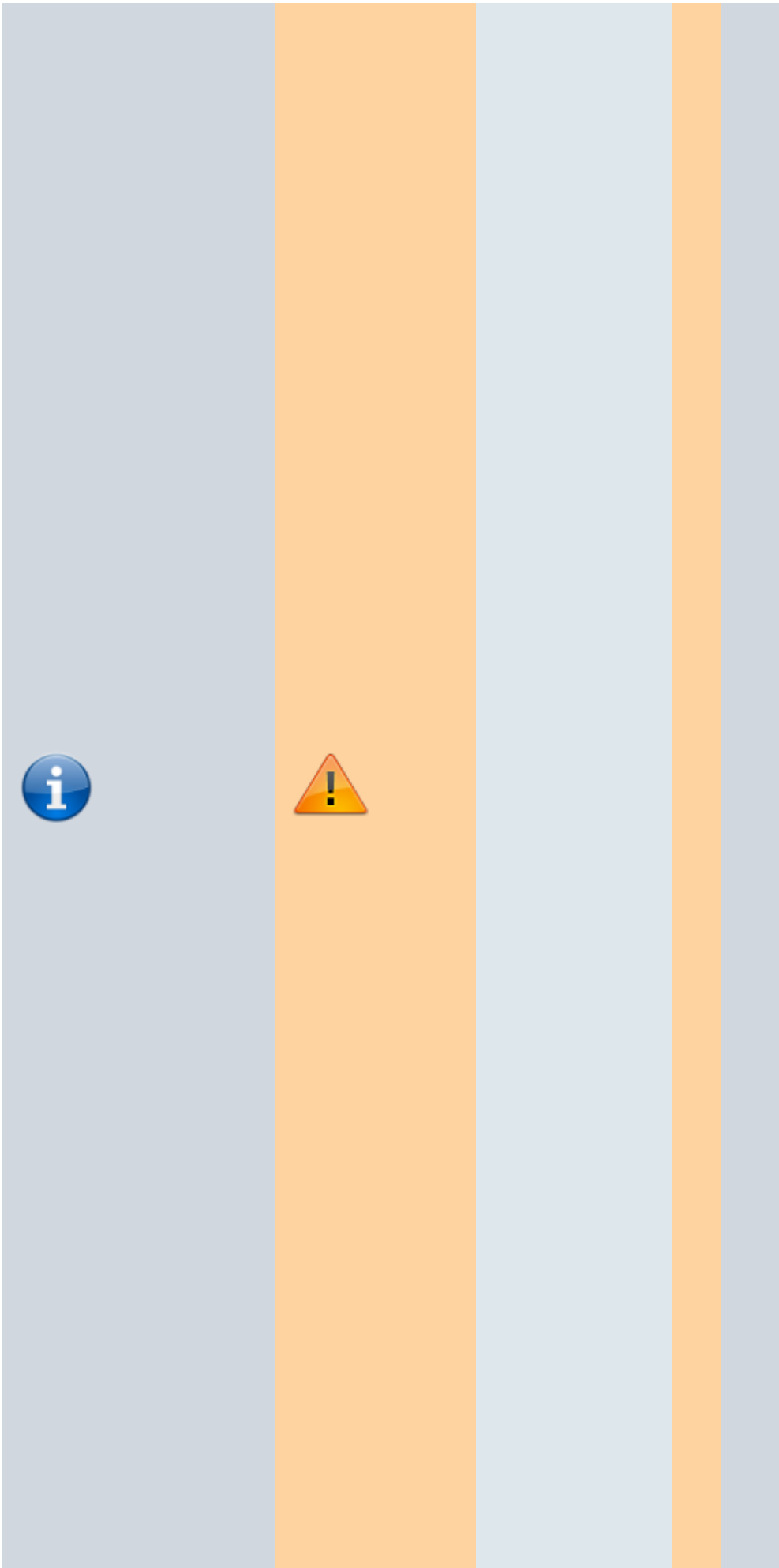
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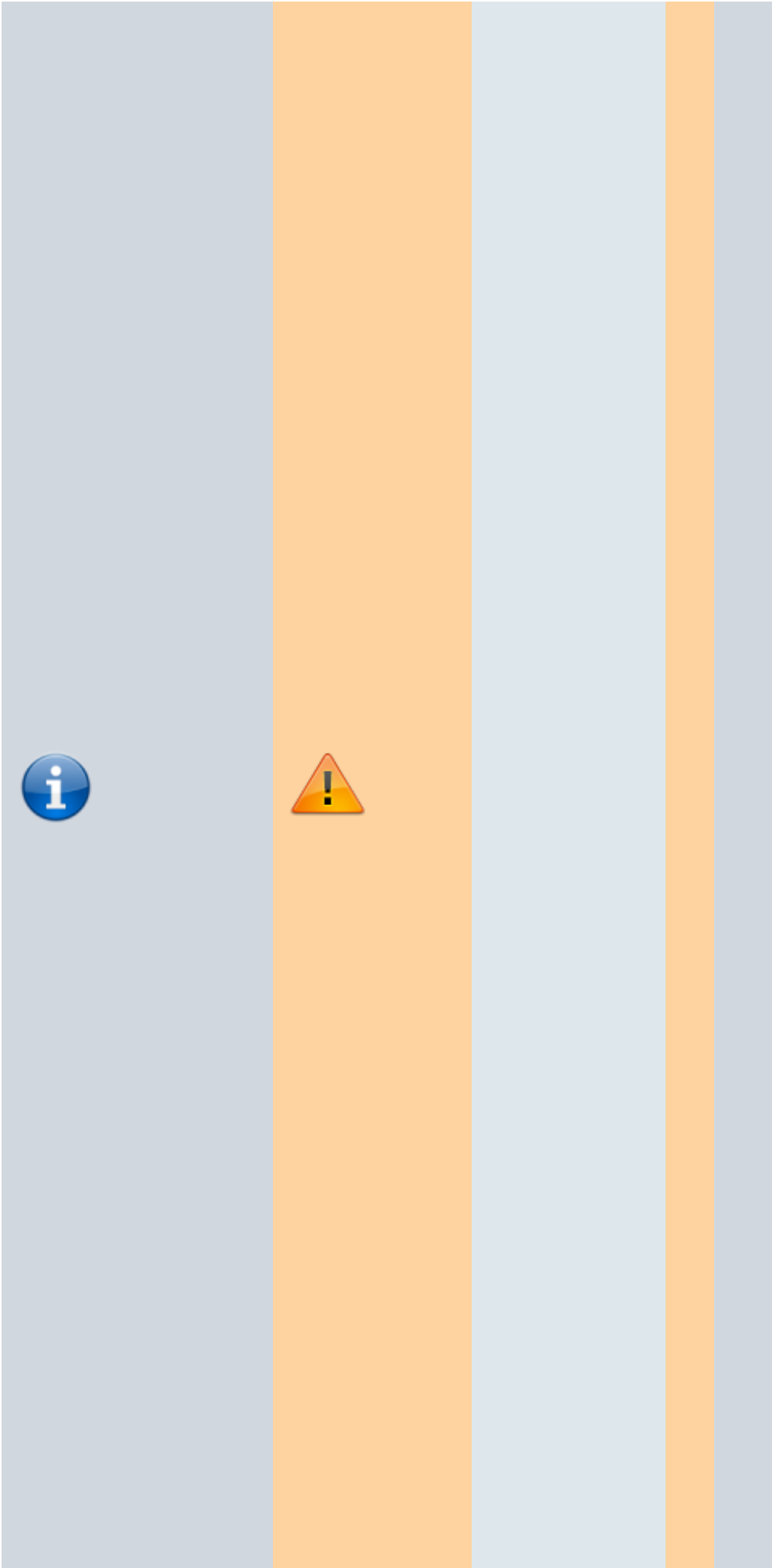
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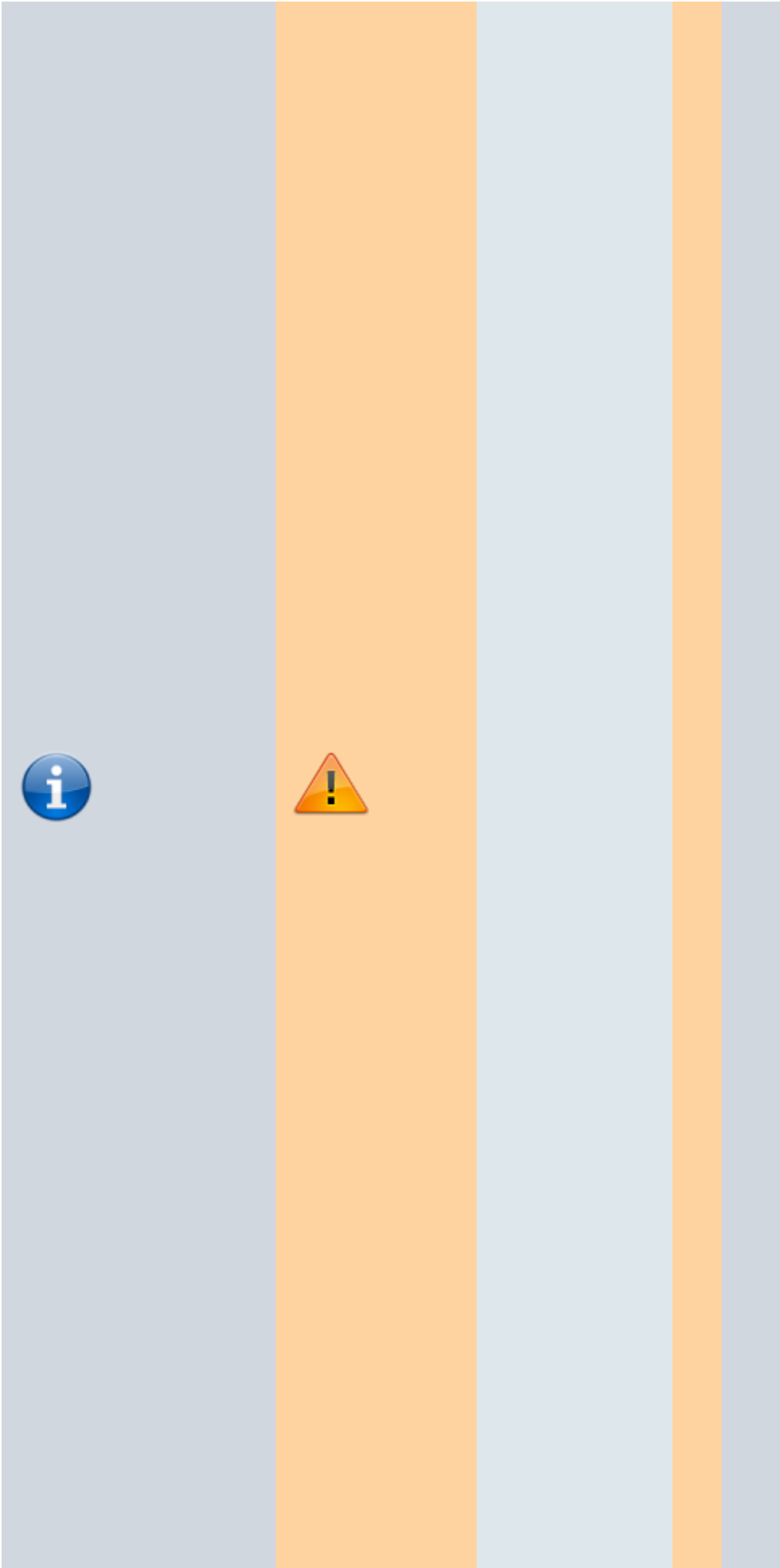
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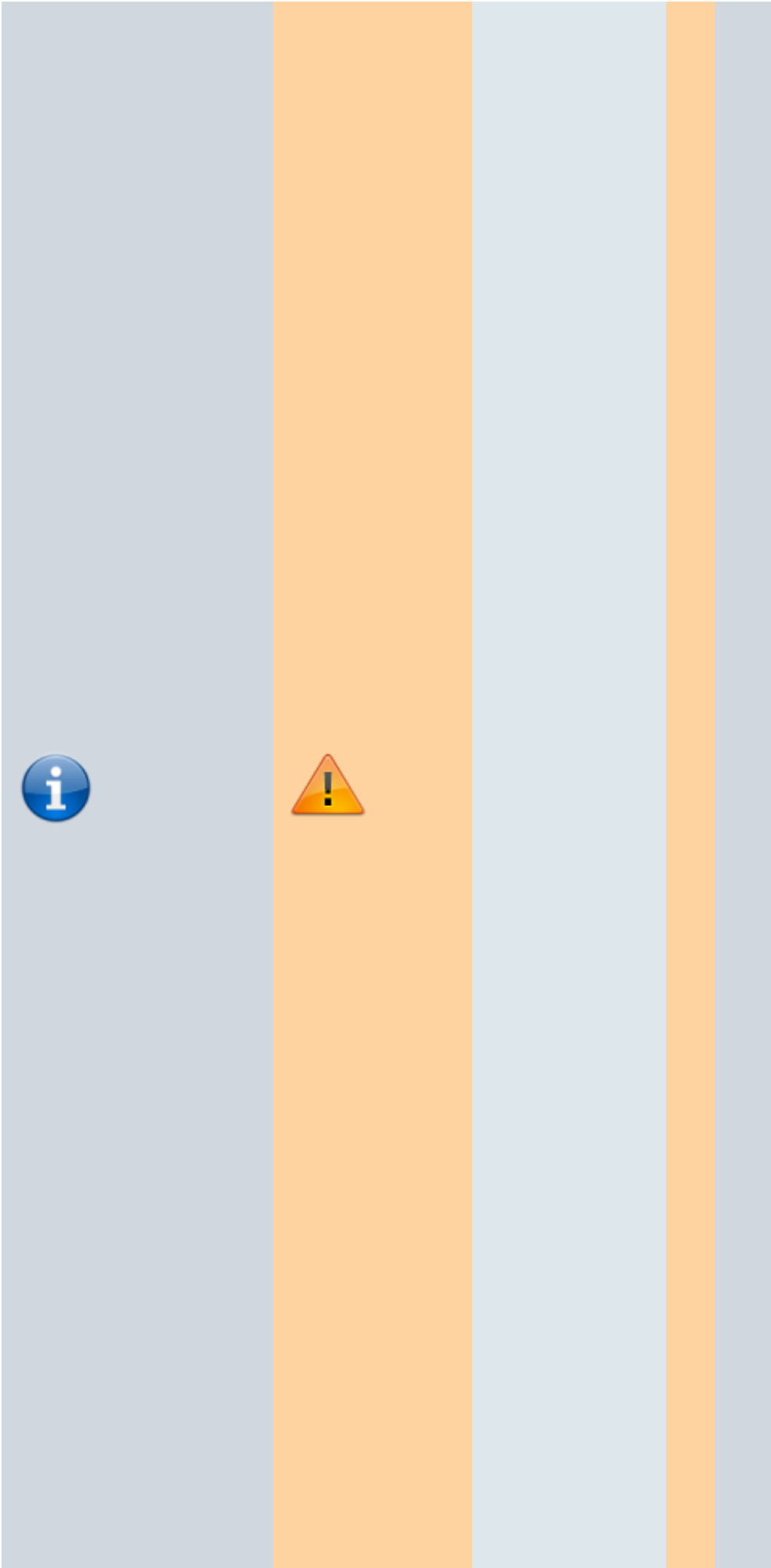
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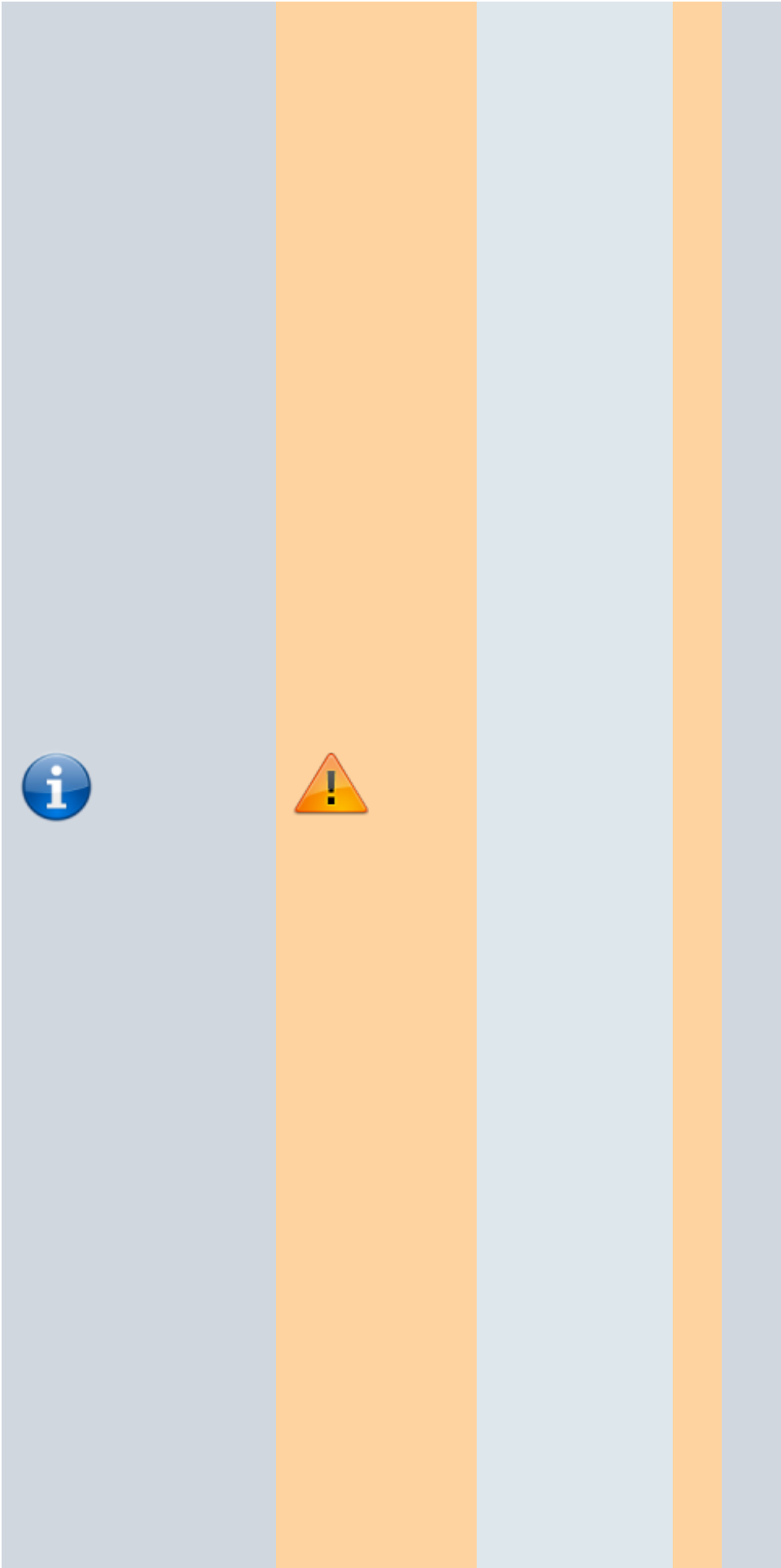
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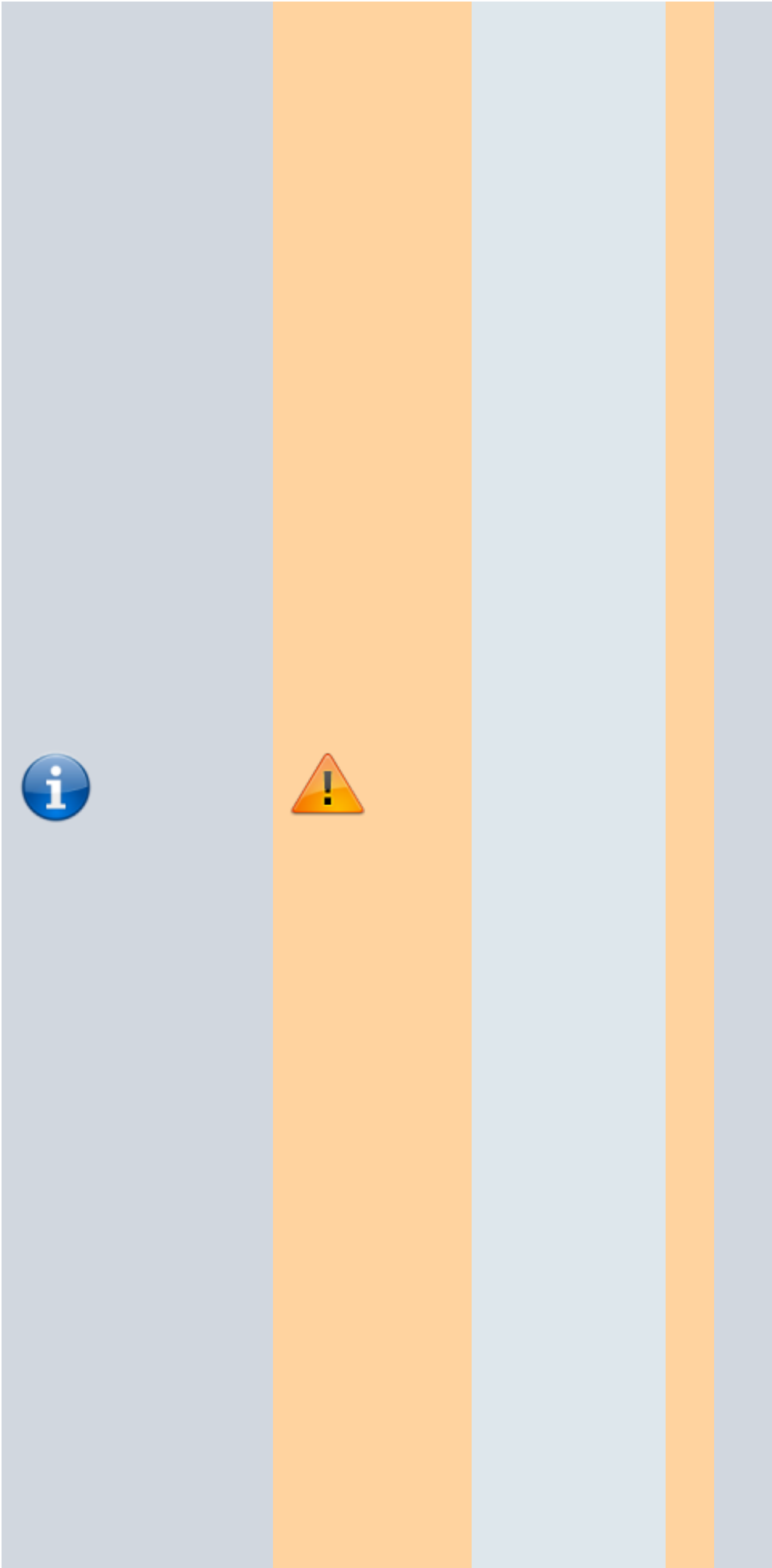
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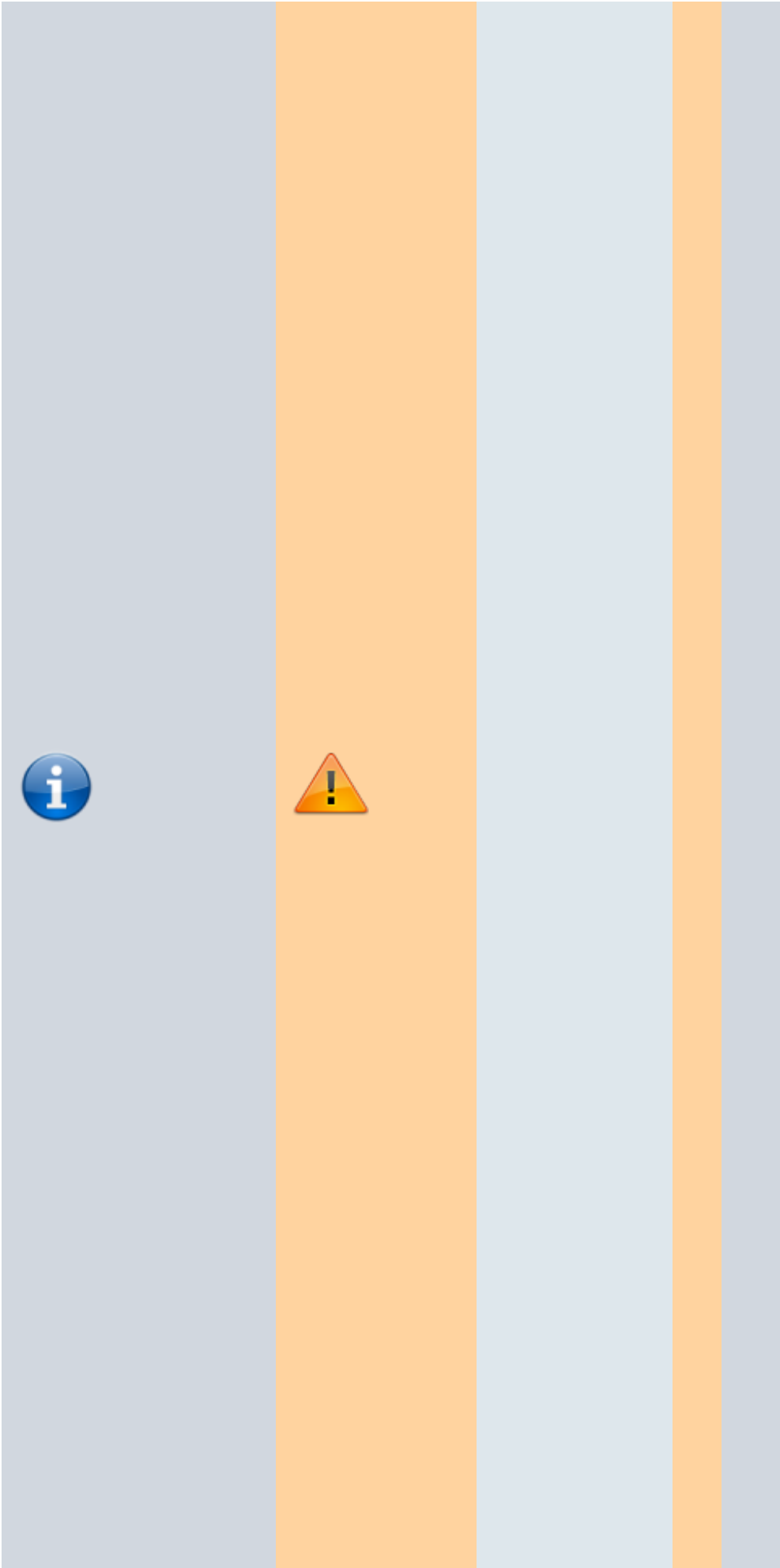
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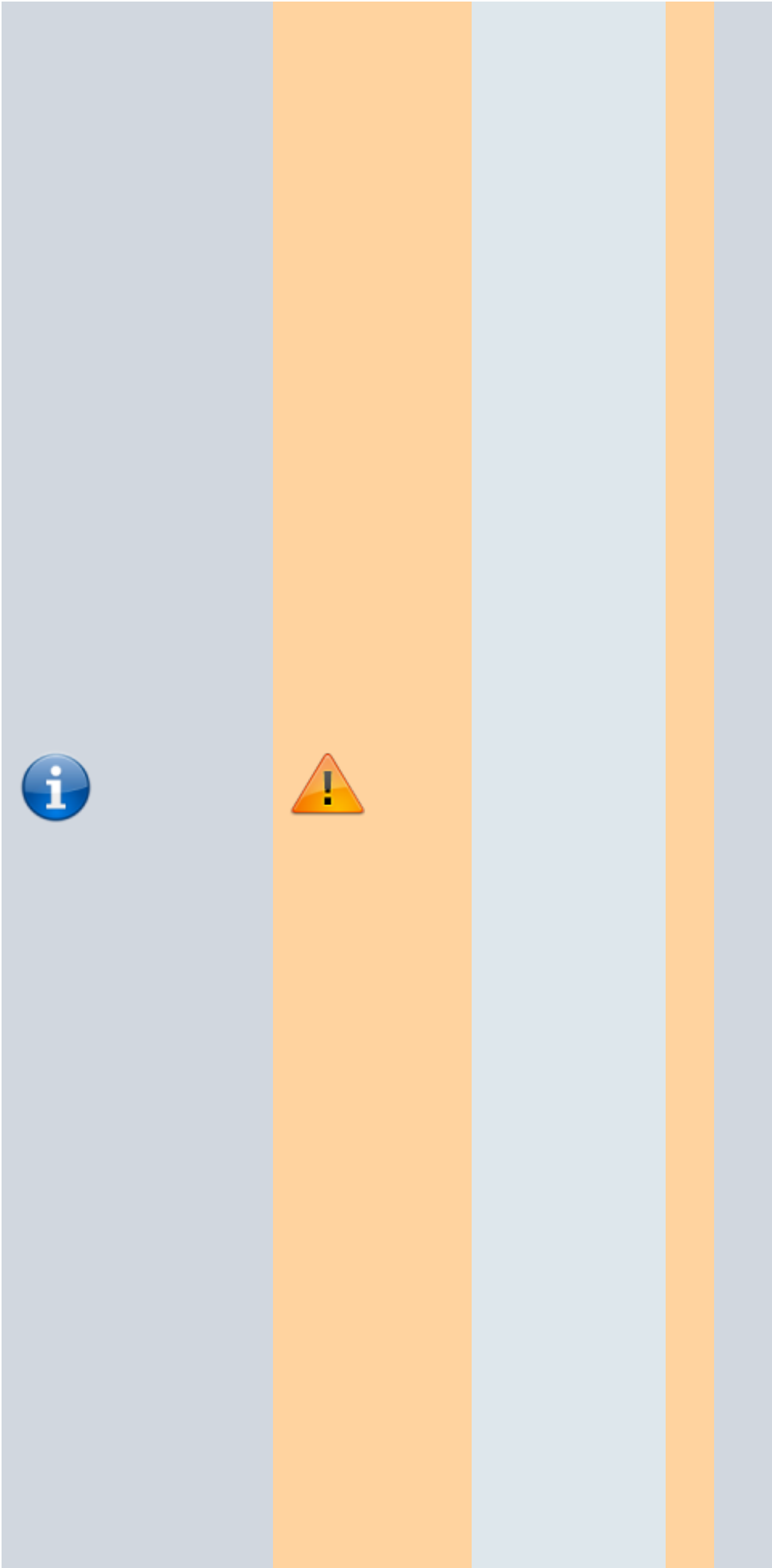
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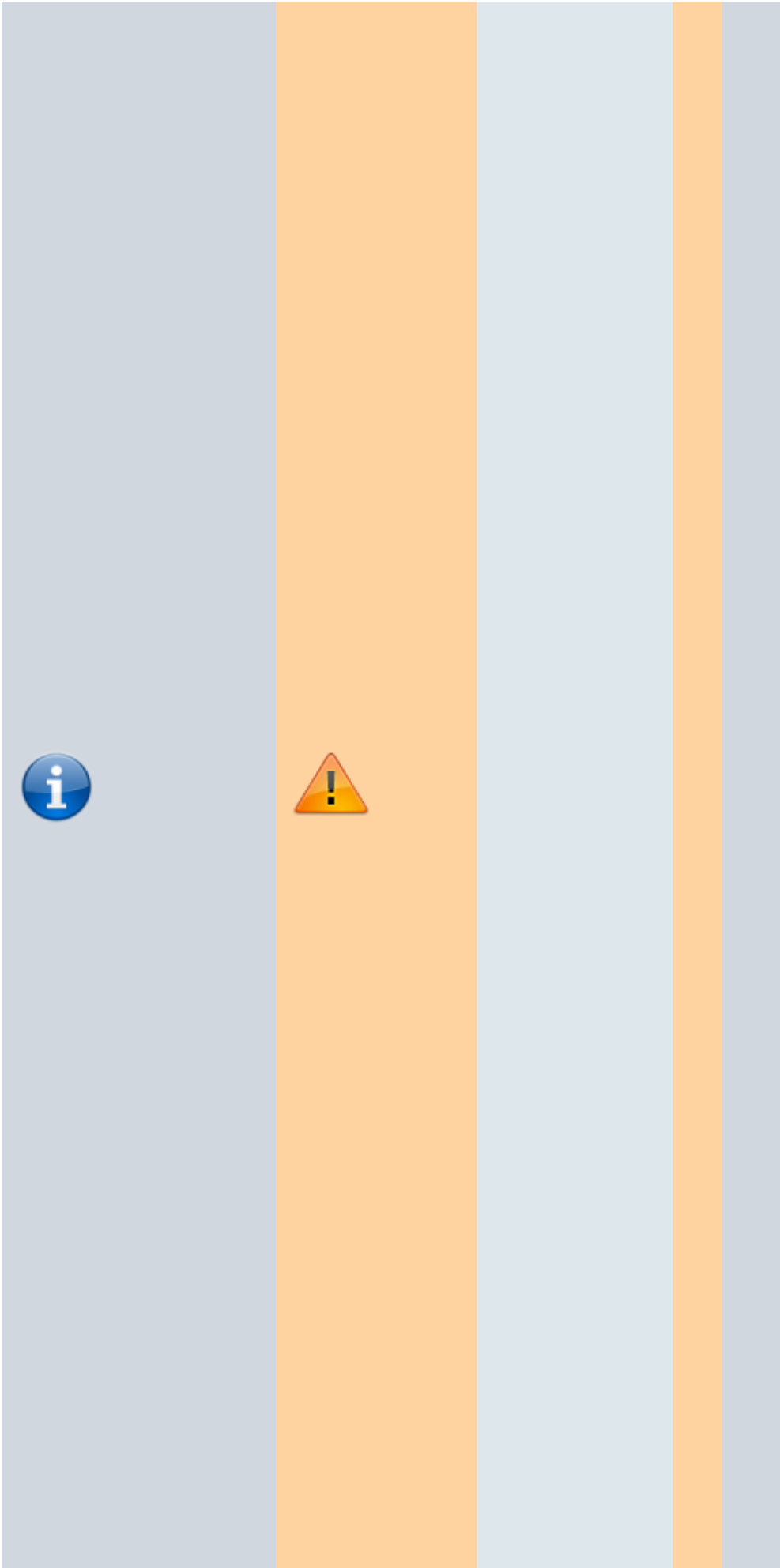
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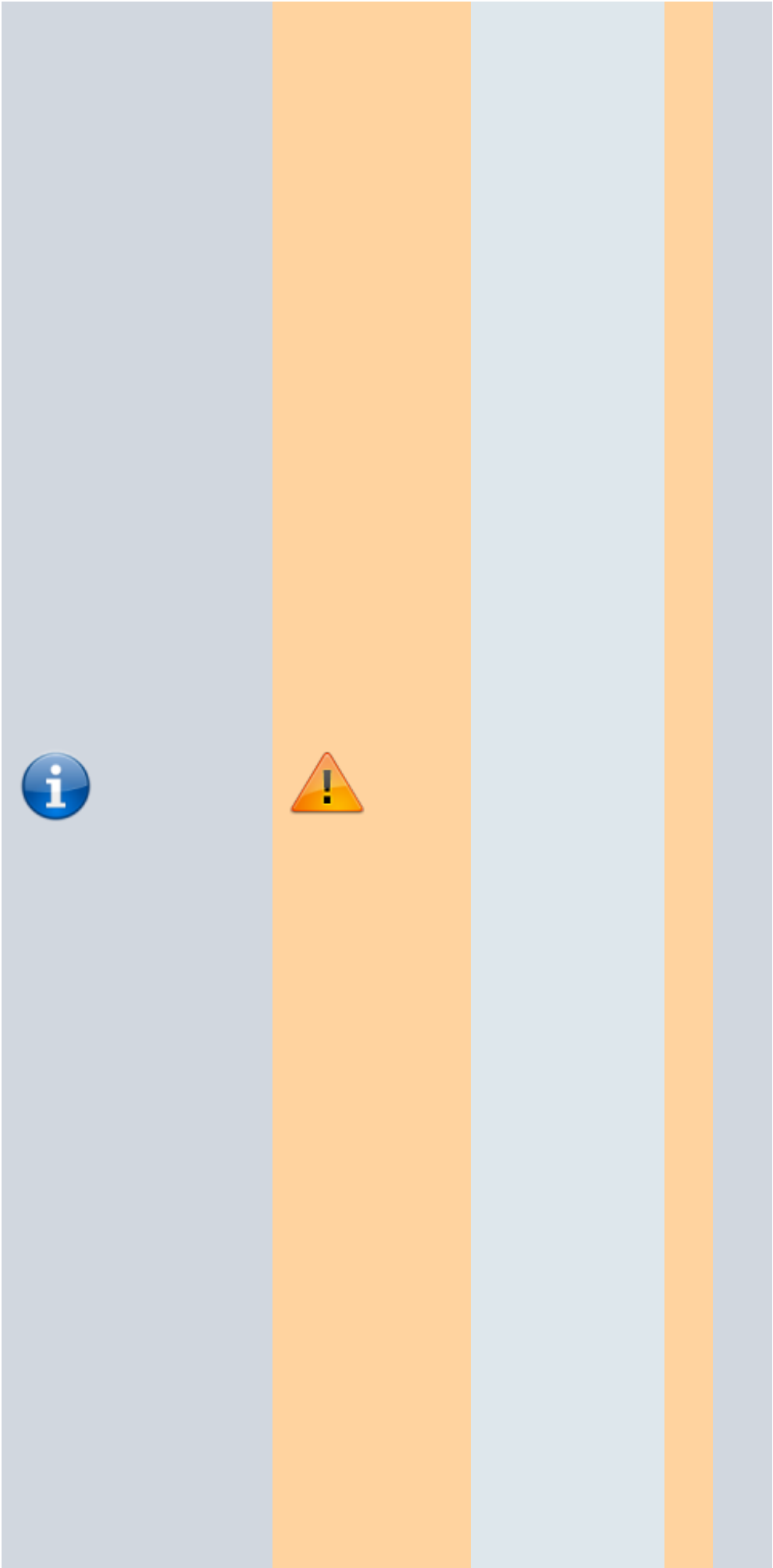
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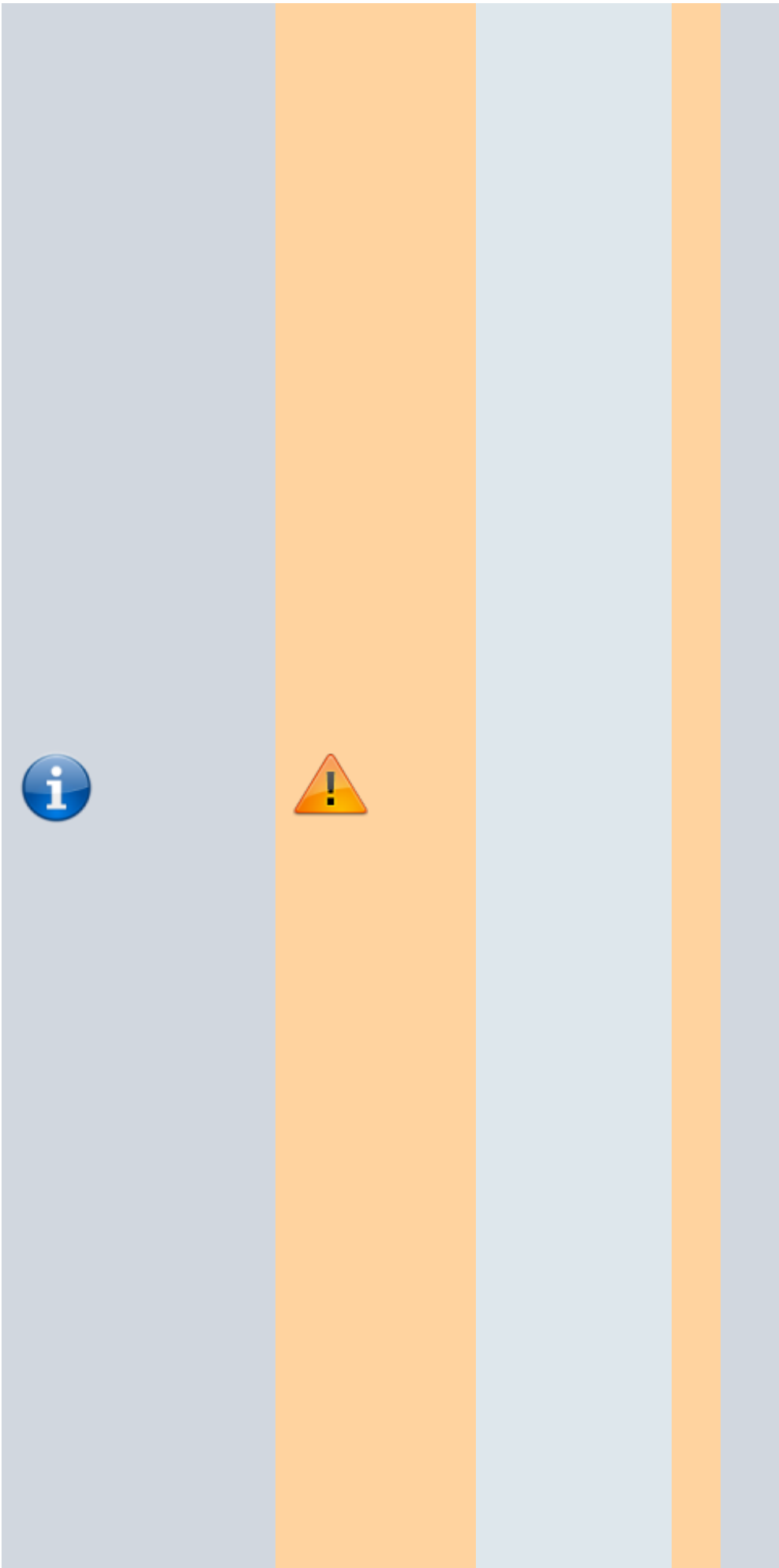
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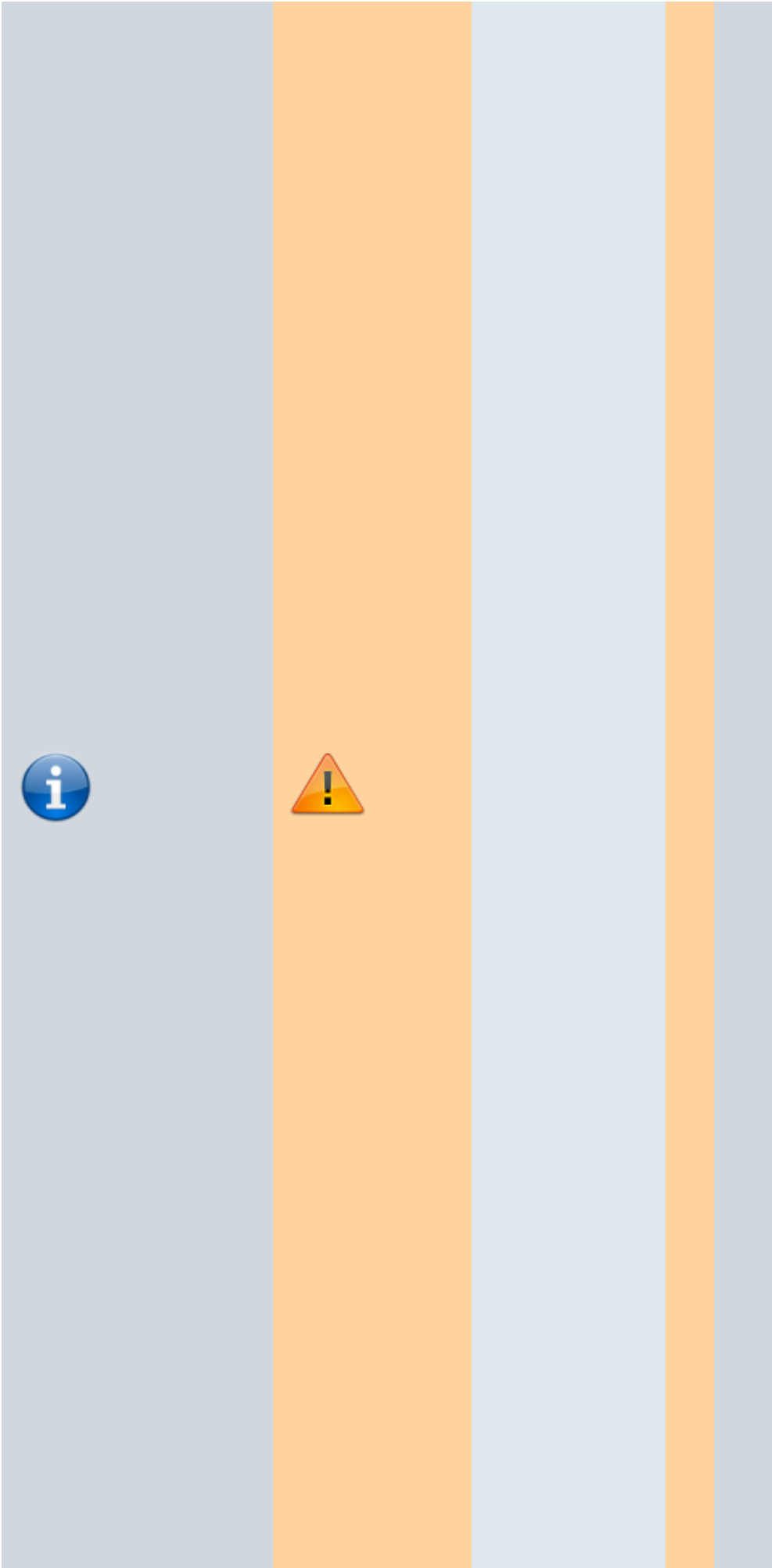
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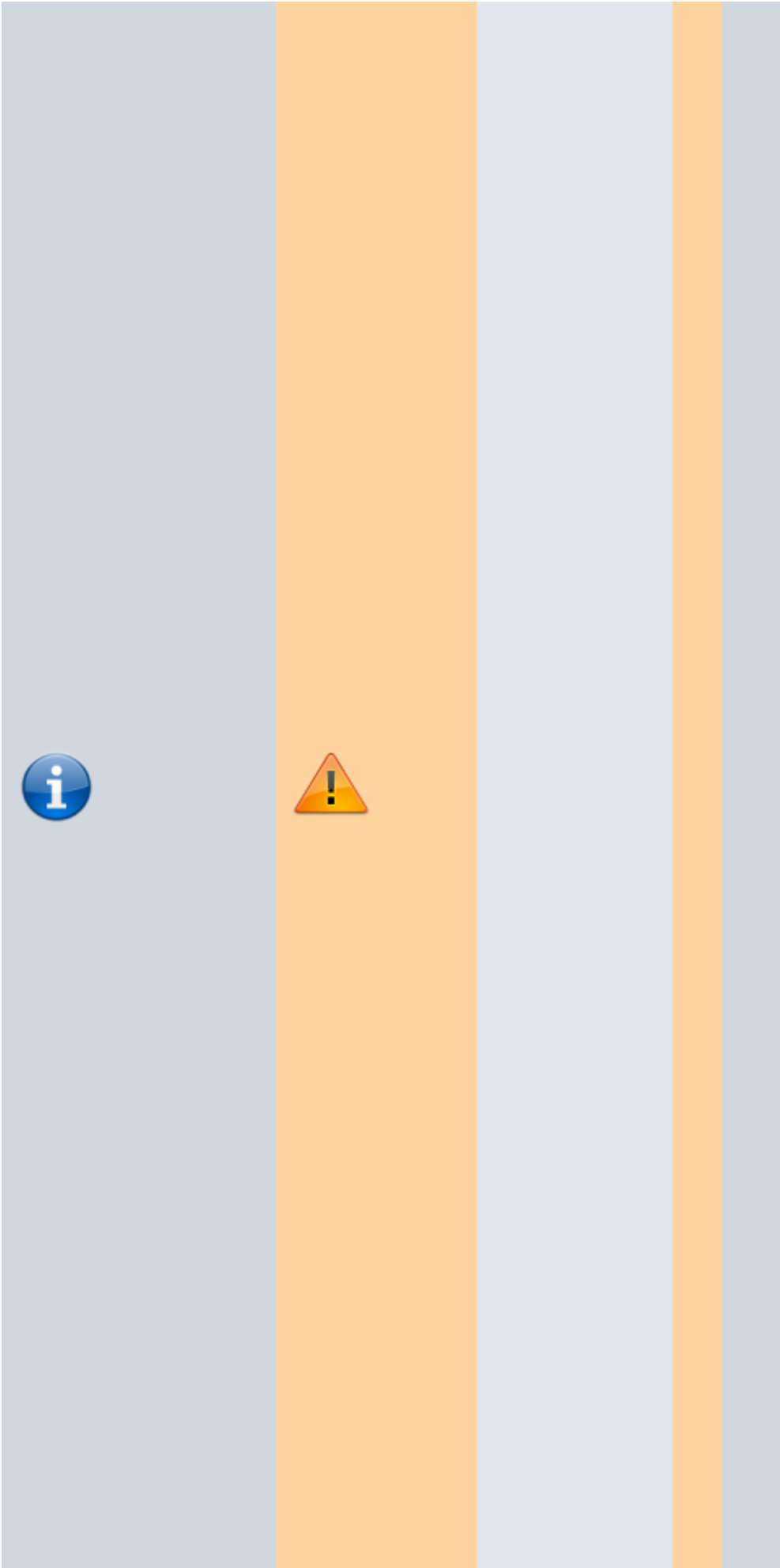
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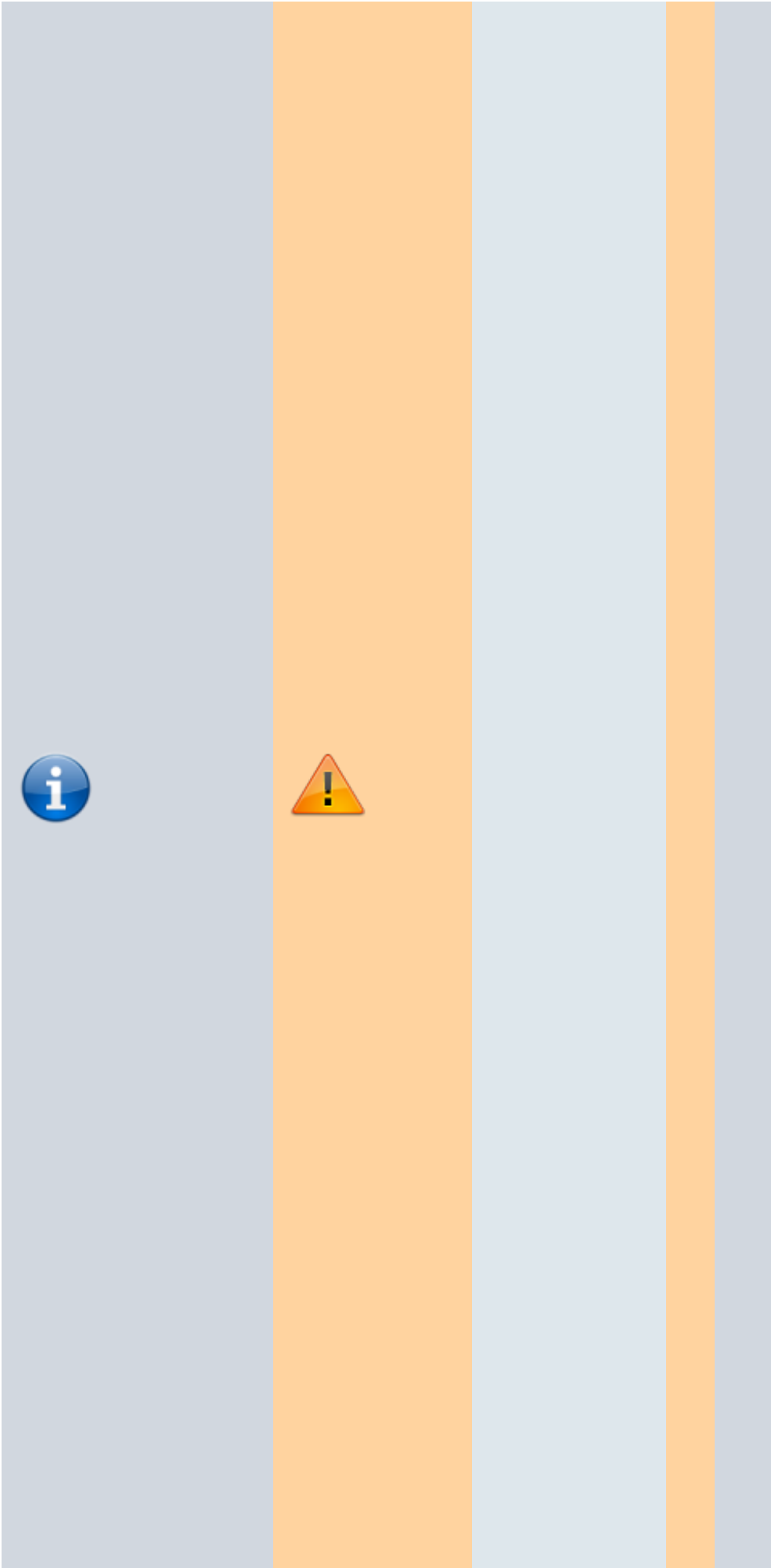
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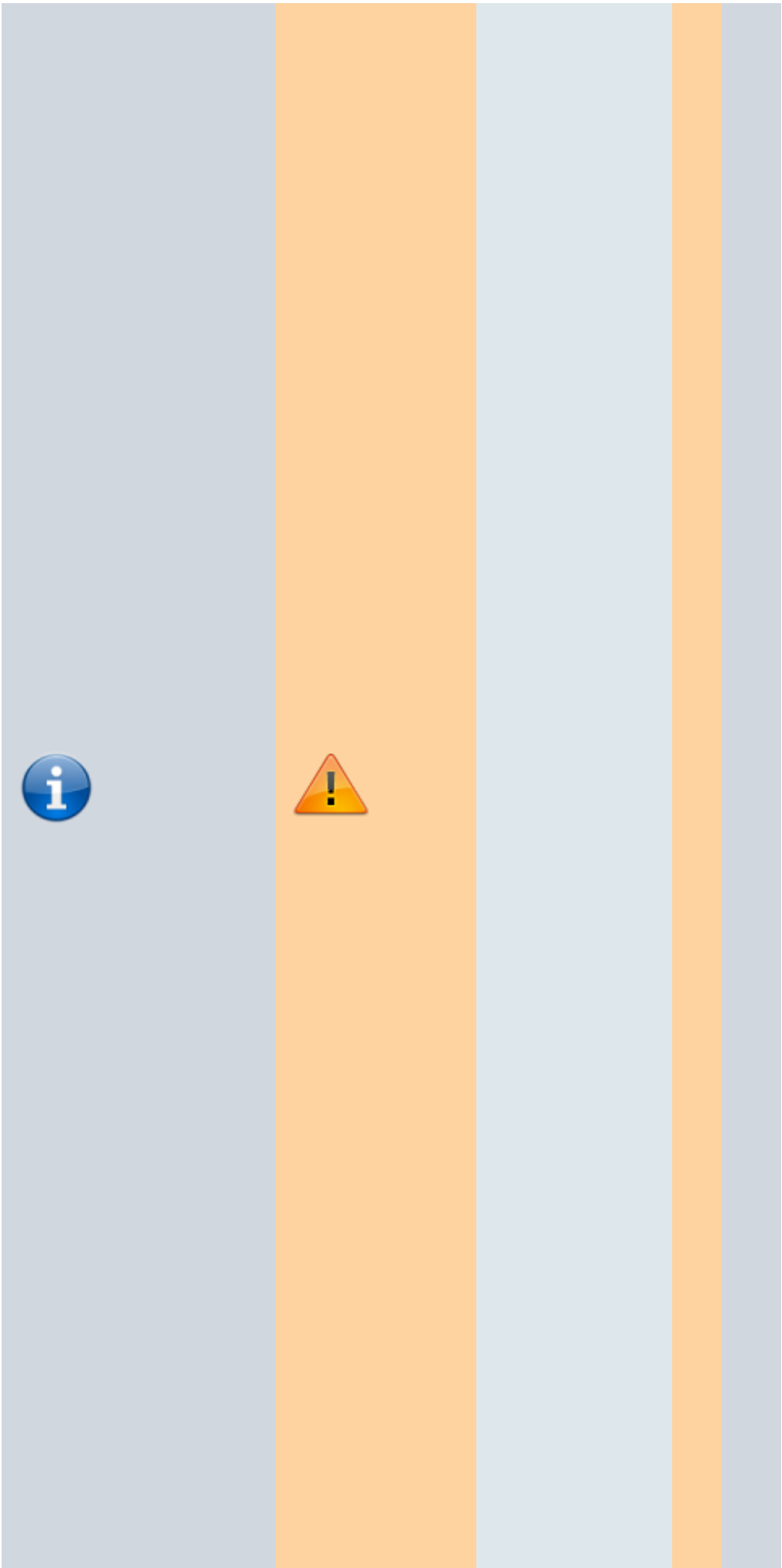


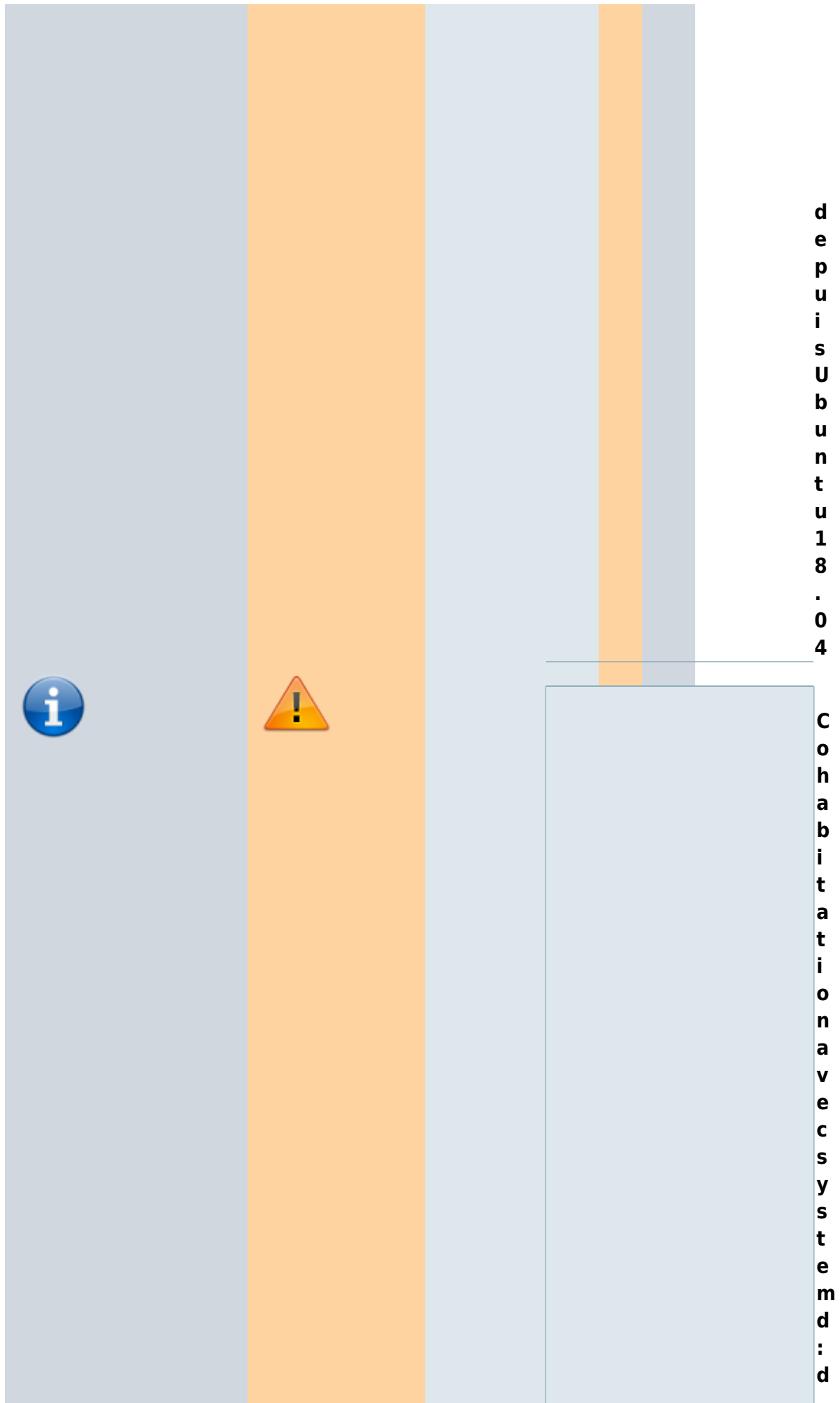
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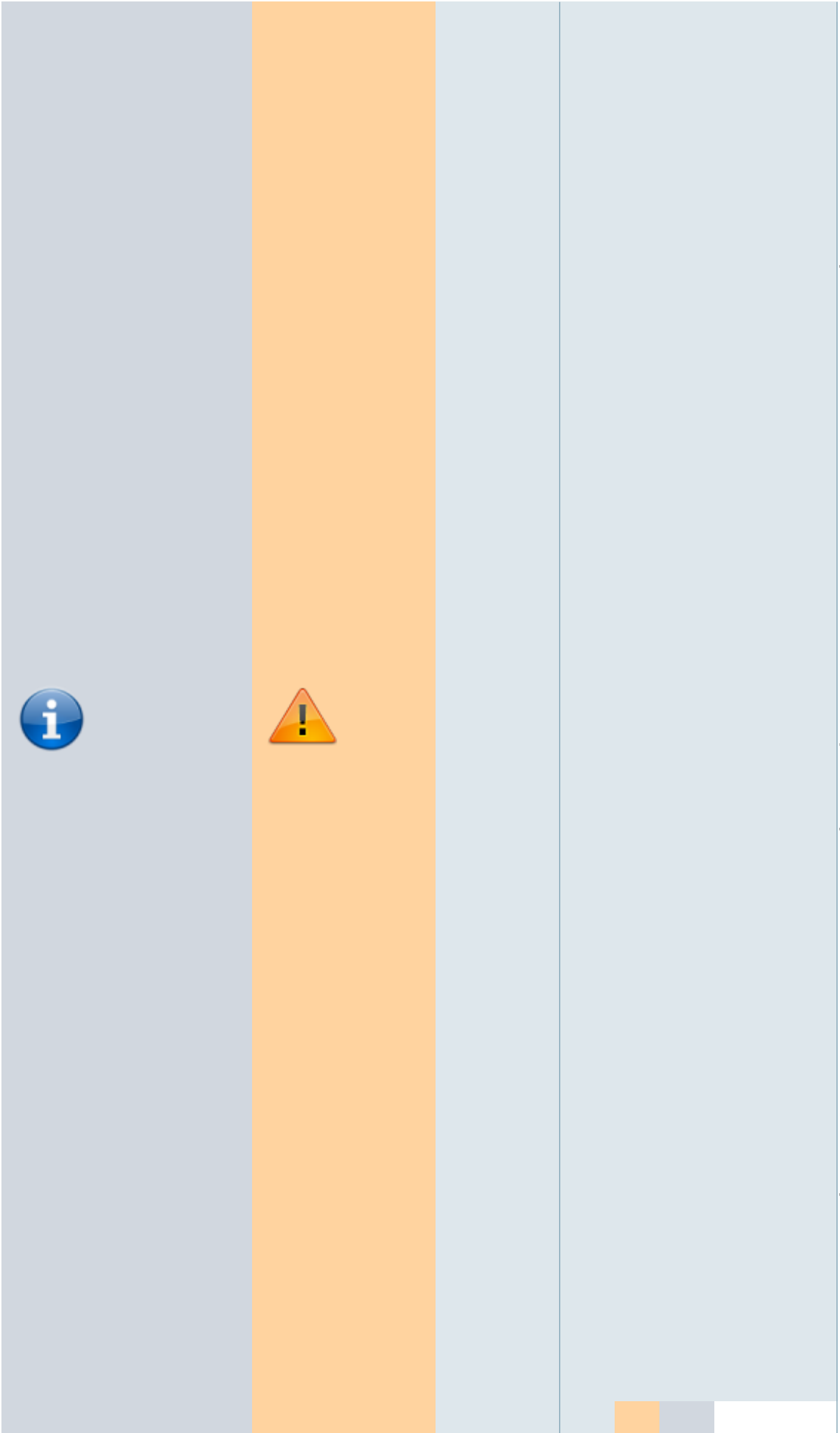


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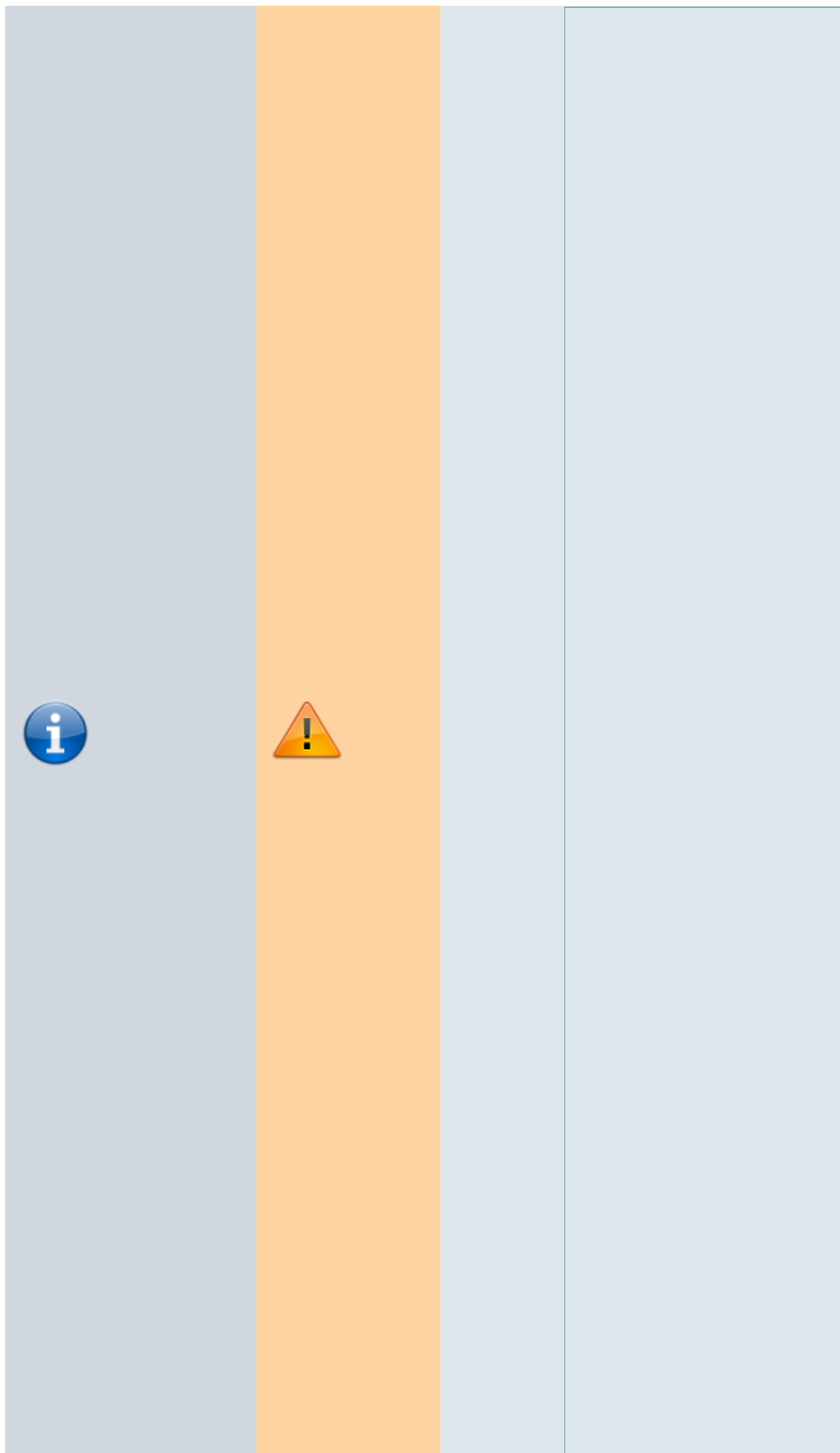








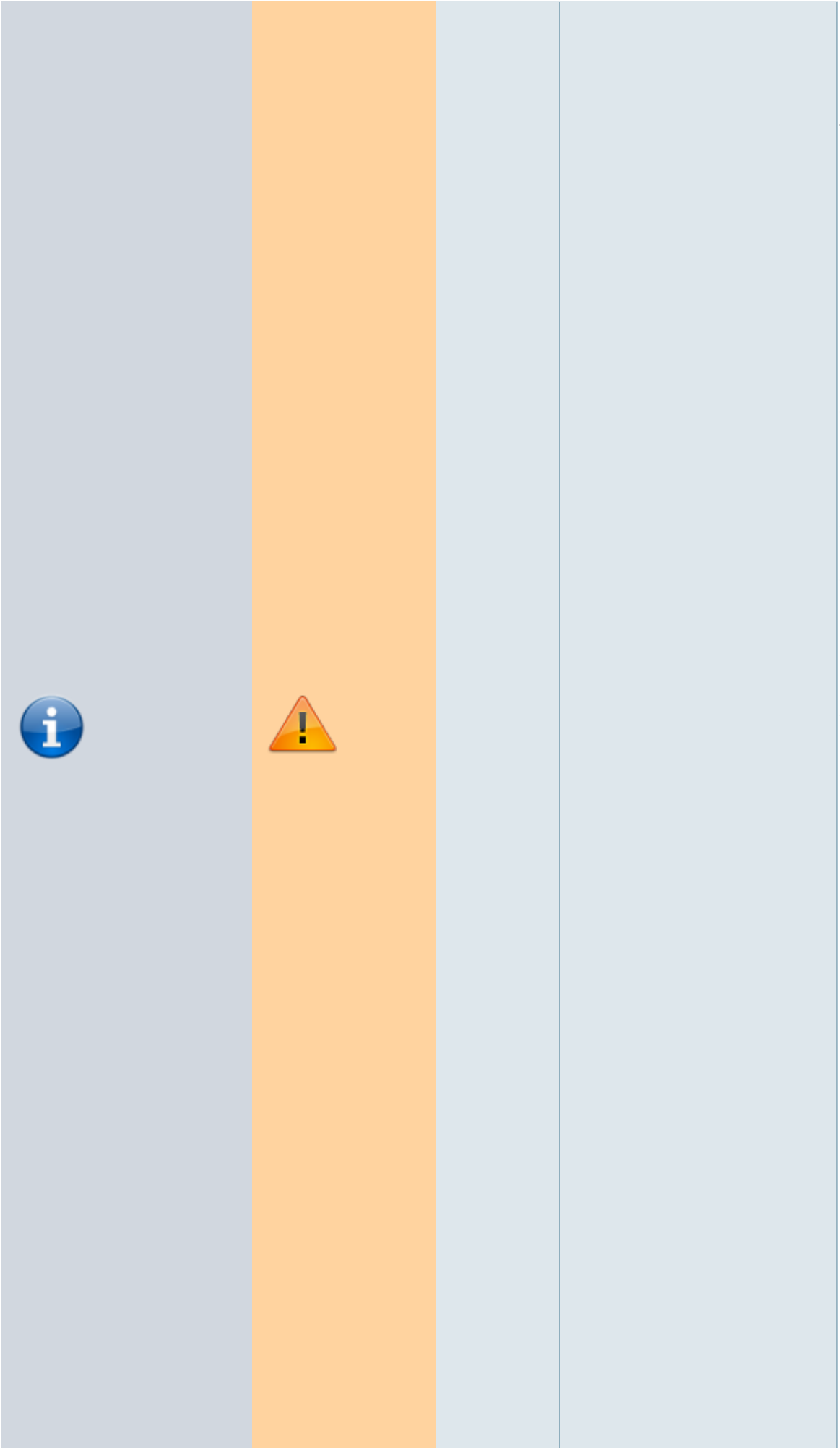
The graphic consists of a light blue background with a central vertical orange bar. On the left side of the blue area, there is a blue circular icon with a white lowercase letter 'i'. On the orange bar, there is a yellow triangular warning icon with a black exclamation mark. At the bottom right of the graphic, there is a small horizontal bar with an orange segment on the left and a grey segment on the right.

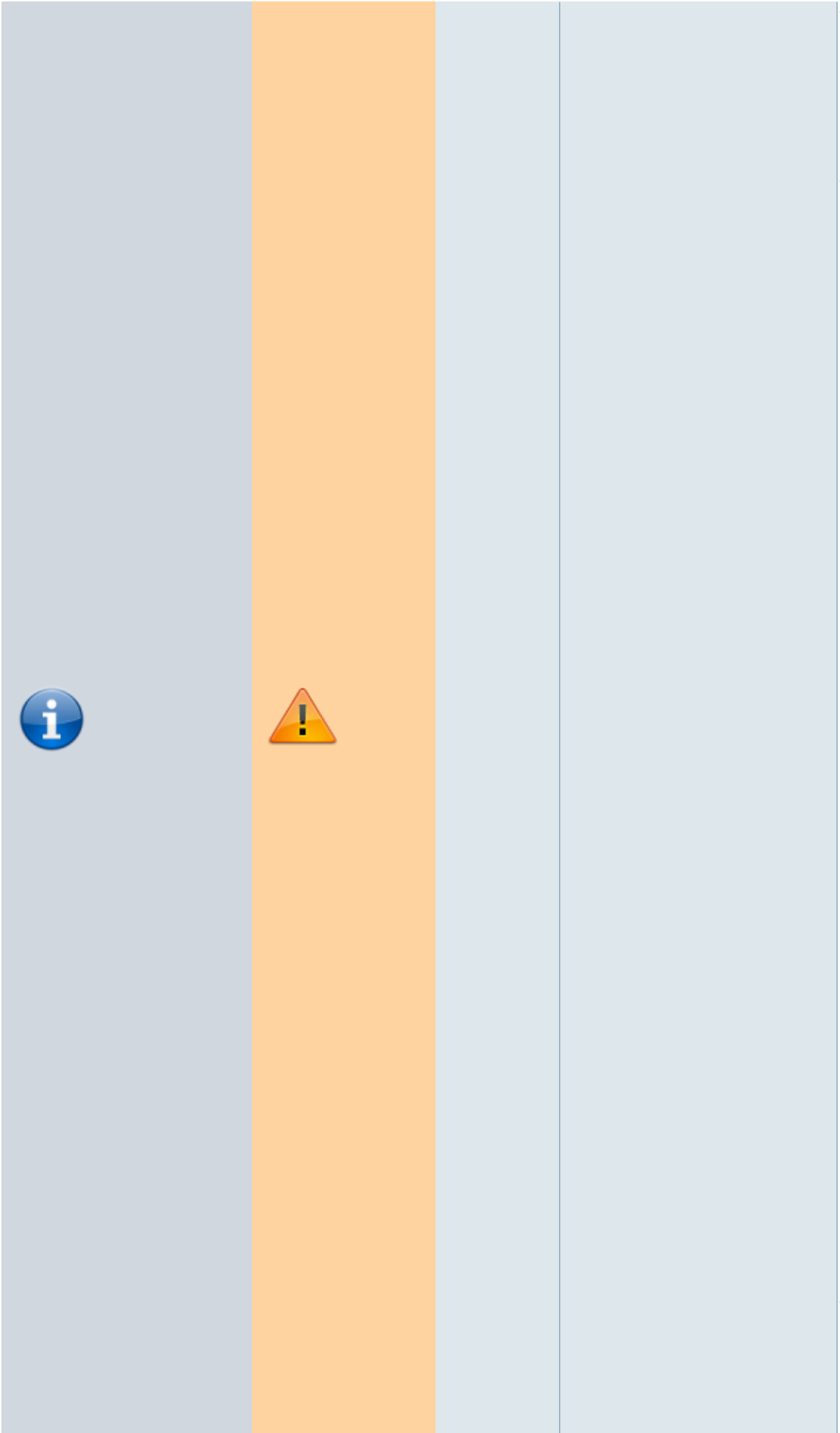
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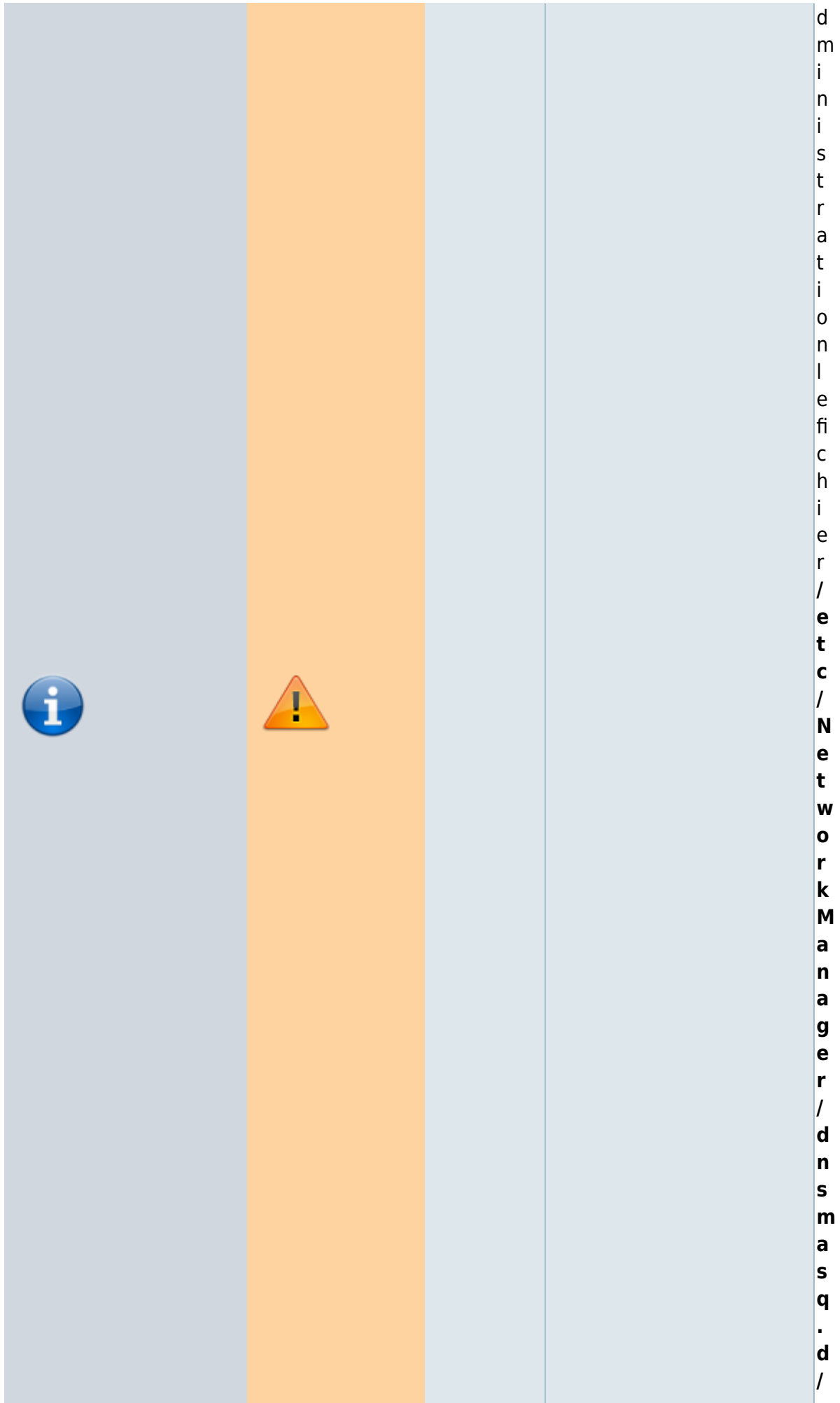


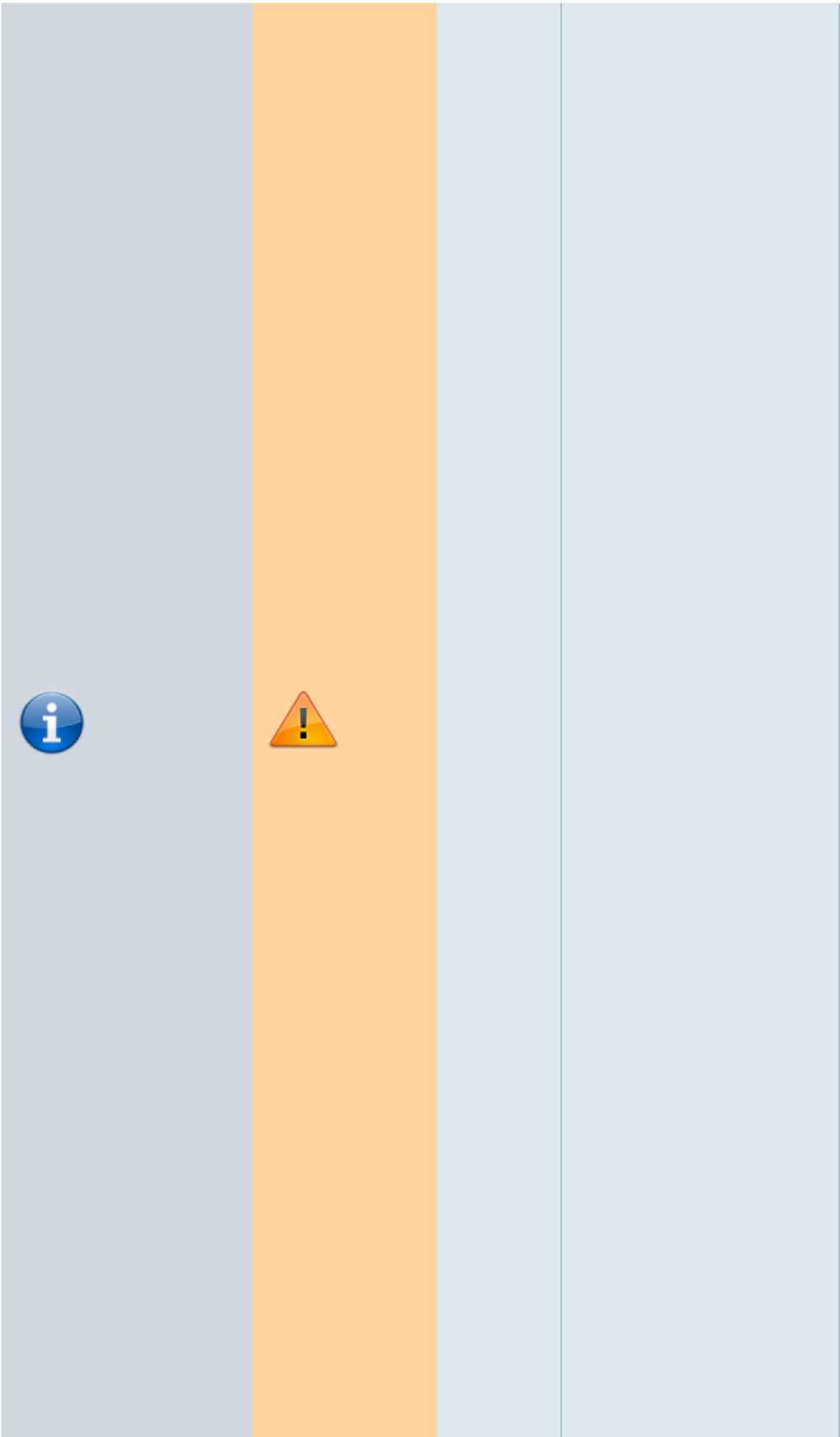
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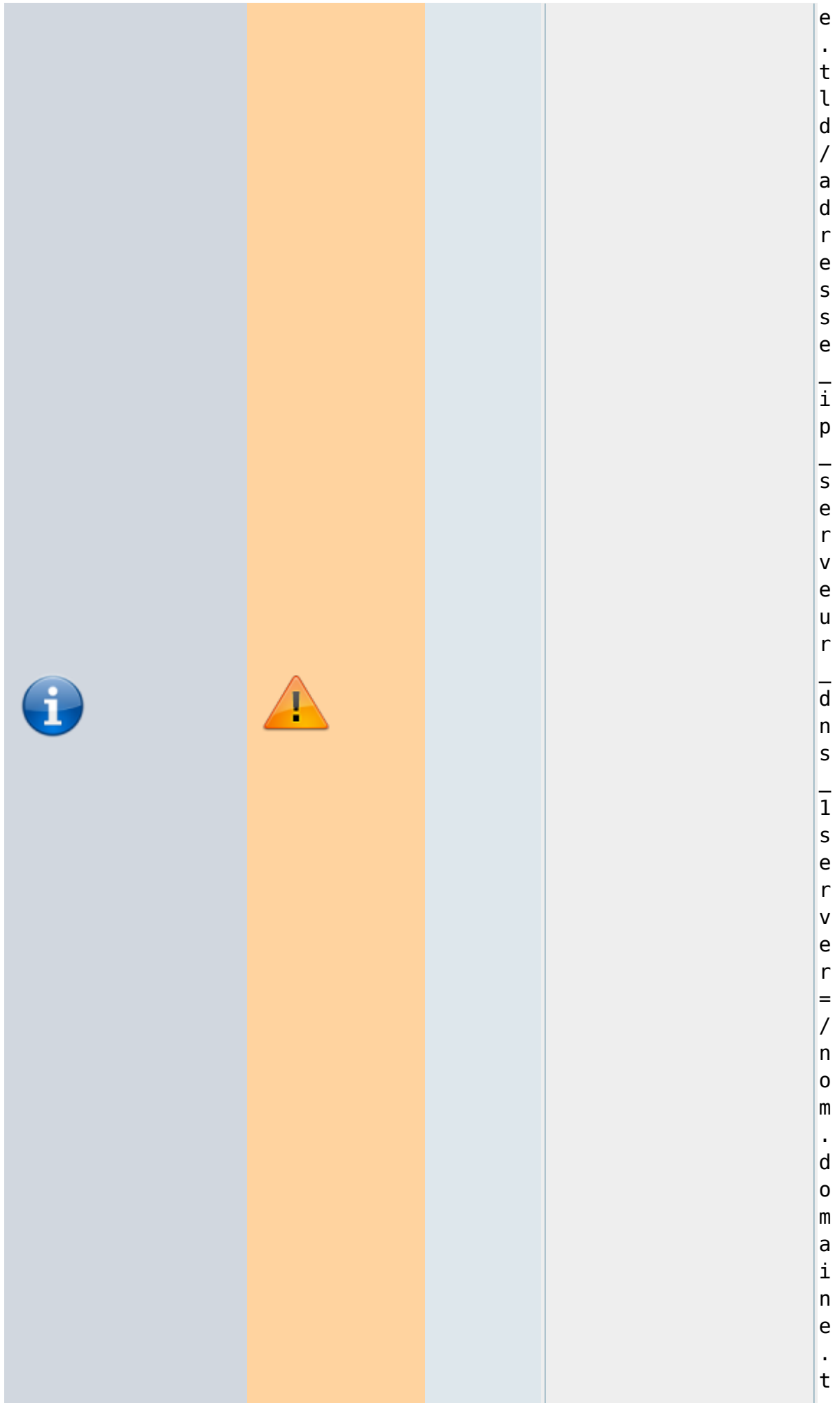




The graphic consists of a light blue background with a central vertical orange bar. On the left side of the blue area, there is a blue circular icon with a white lowercase letter 'i'. On the orange bar, there is a yellow triangular warning icon with a black exclamation mark. On the right side of the blue area, there is a vertical stack of blue text characters: 'm', 'o', 'n', 'r', 'e', 's', 'o', 'l', 'v', '·', 'c', 'o', 'n', 'f', 'p', 'o', 'u', 'r', 'y', 'é', 'c', 'r', 'i', 'r', 'e', ':', '/', 'e', 't', 'c', '/', 'N', 'e', 't', 'w', 'o', 'r', 'k', 'M', 'a', 'n', 'a', 'g', 'e', 'r', '/', 'd', 'n', 's'.

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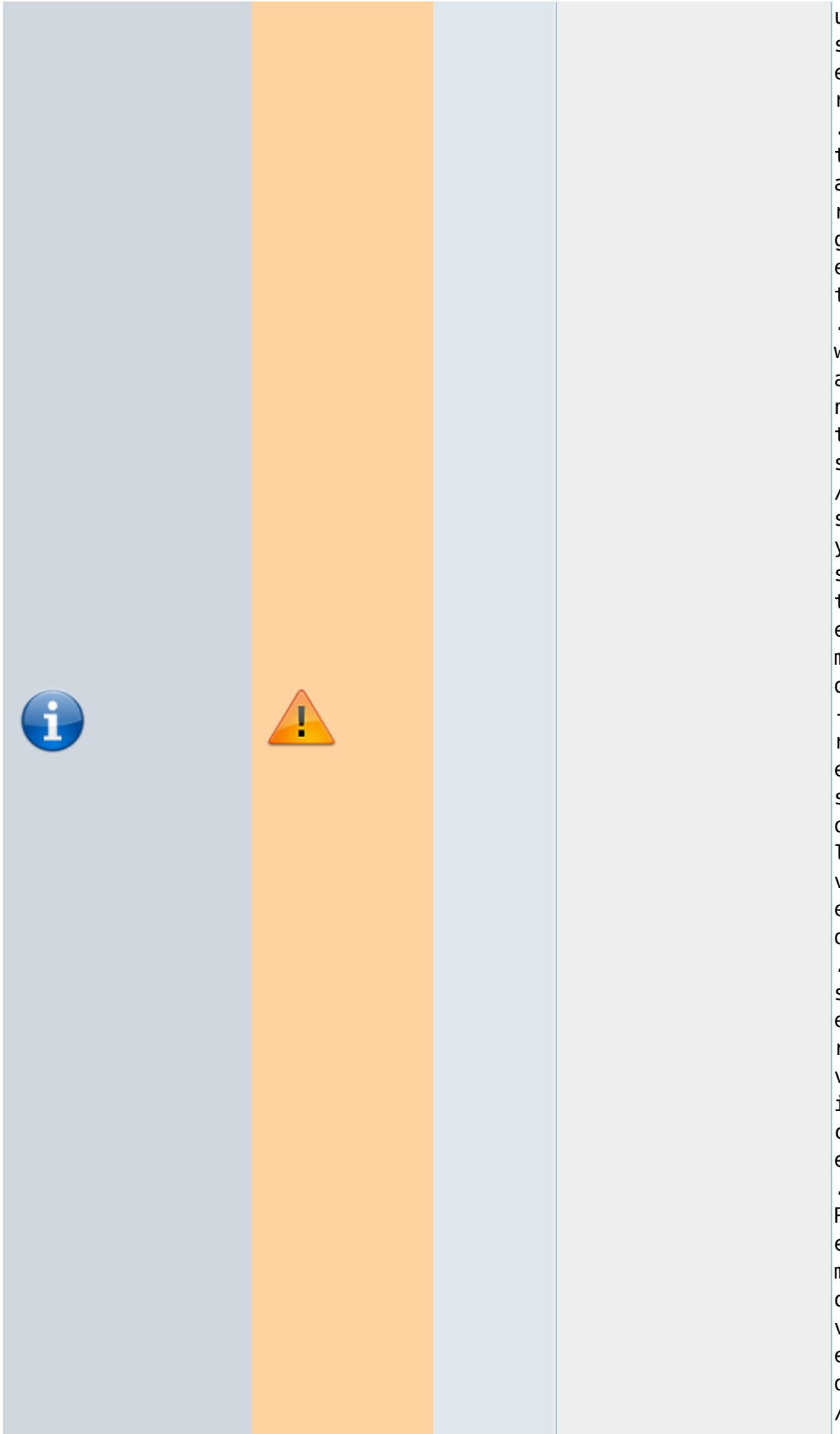
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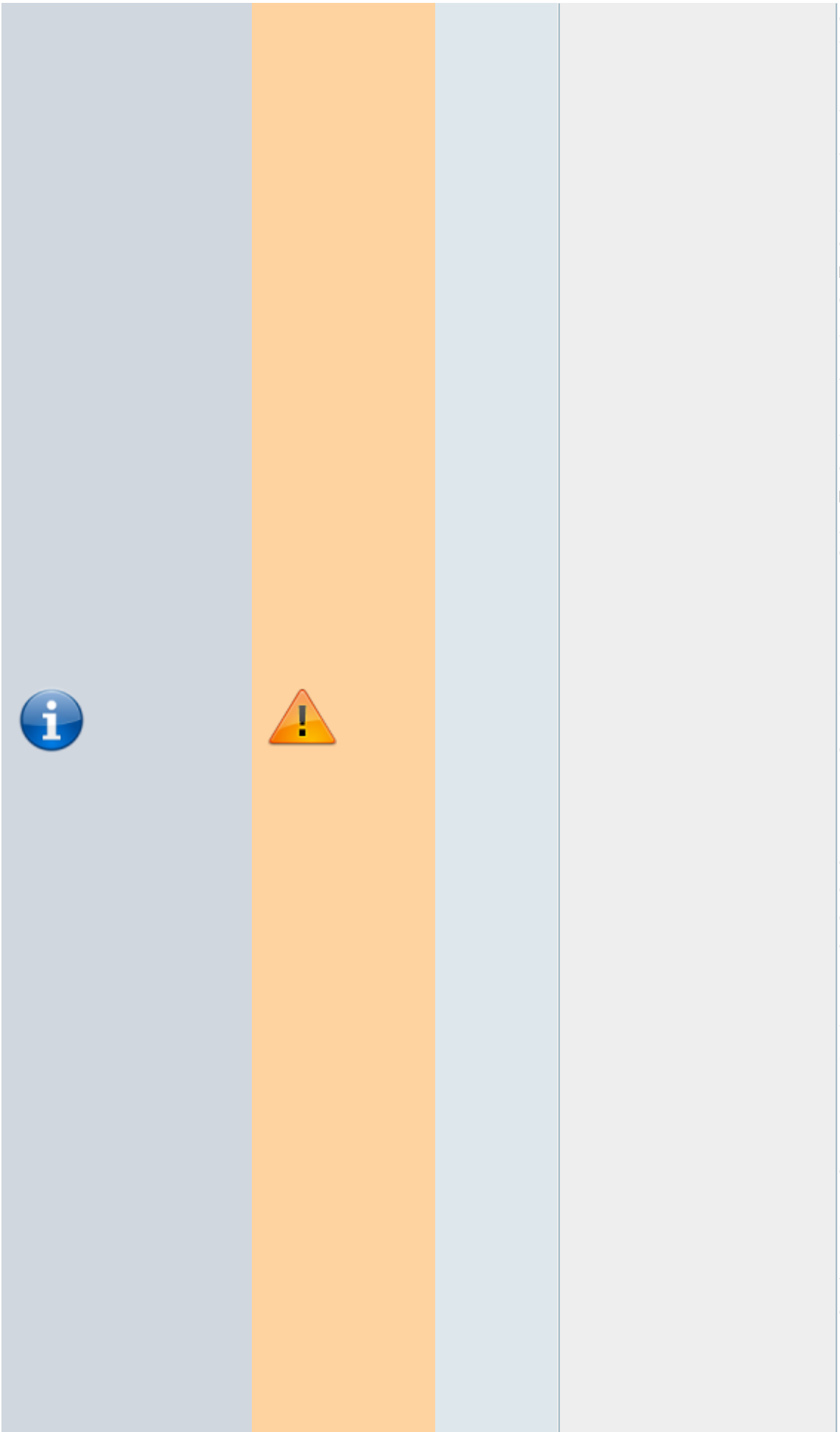
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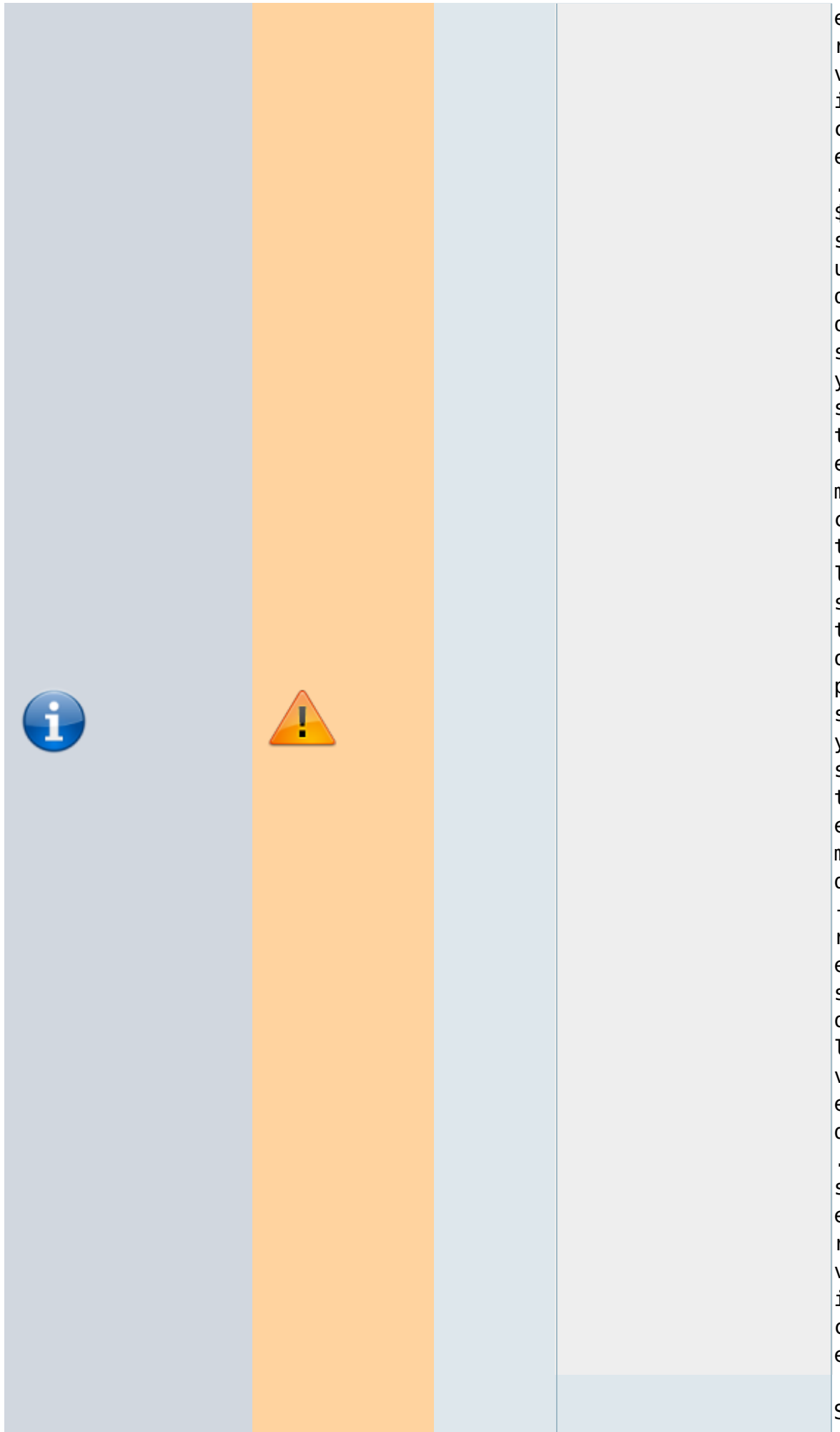
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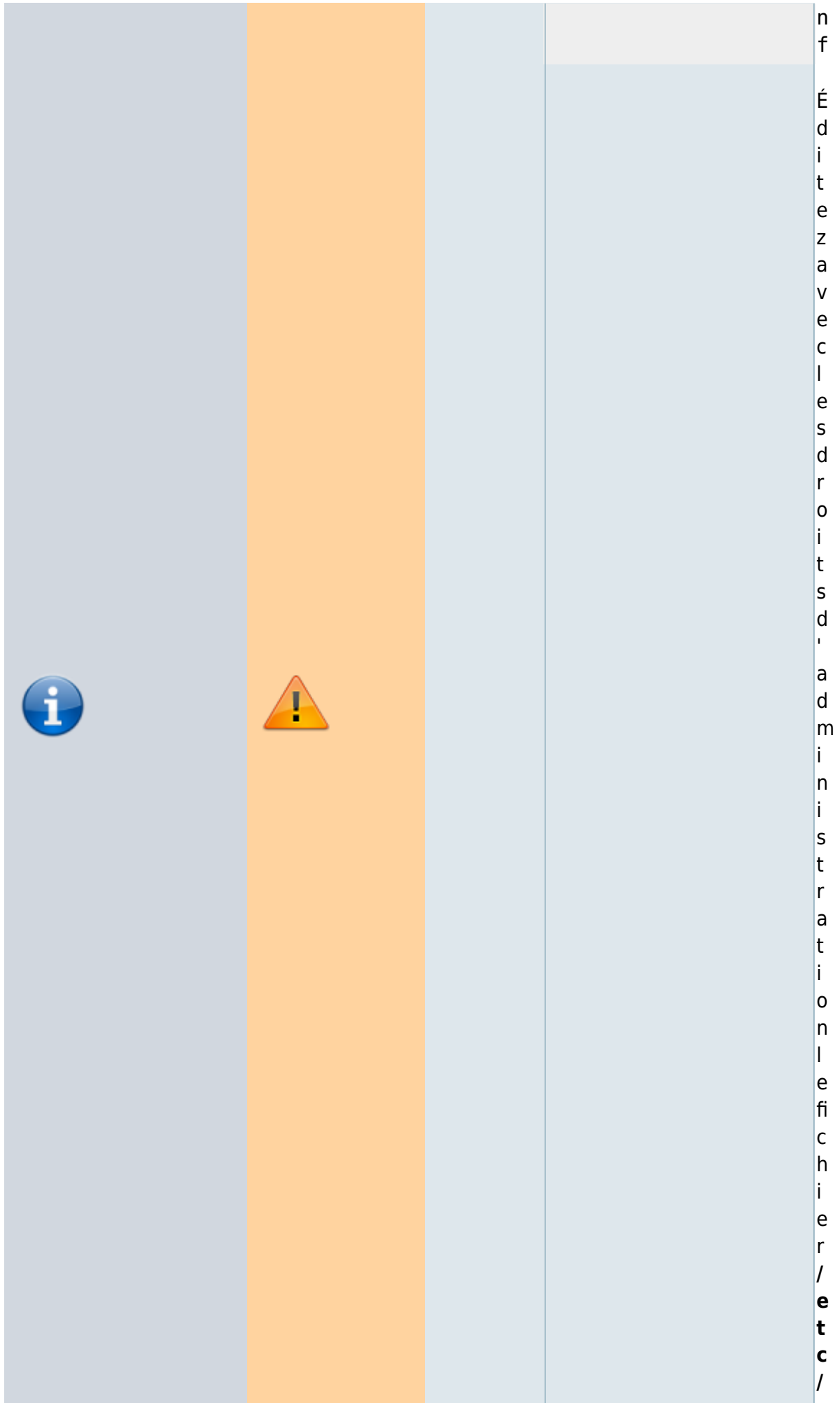
The image shows a vertical bar composed of four distinct colored sections. From left to right, the colors are light blue, orange, light blue, and light grey. In the first light blue section, there is a blue circular icon with a white lowercase letter 'i', representing information. In the orange section, there is a yellow triangular warning icon with a black exclamation mark. The light grey section is empty.

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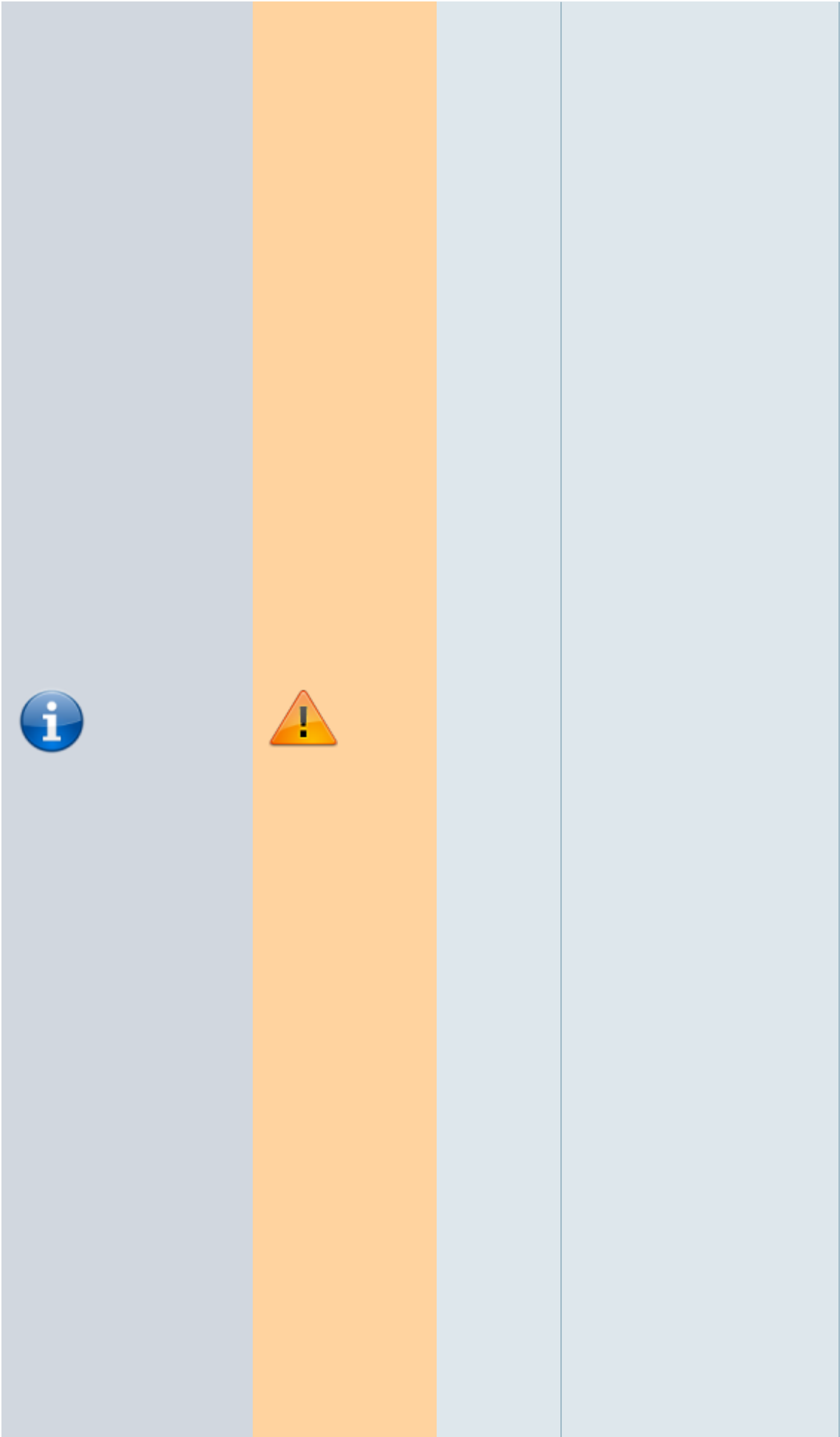


				
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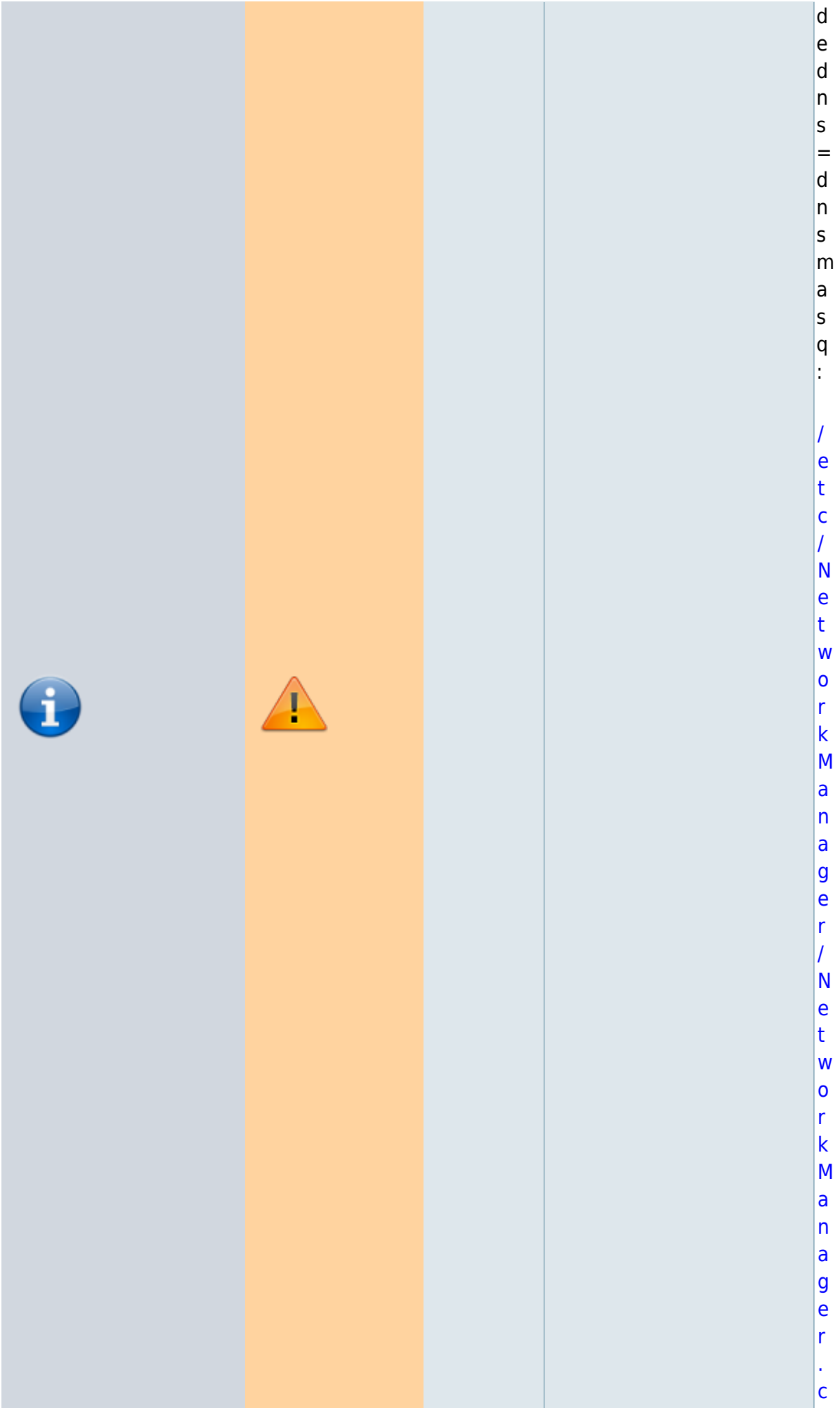




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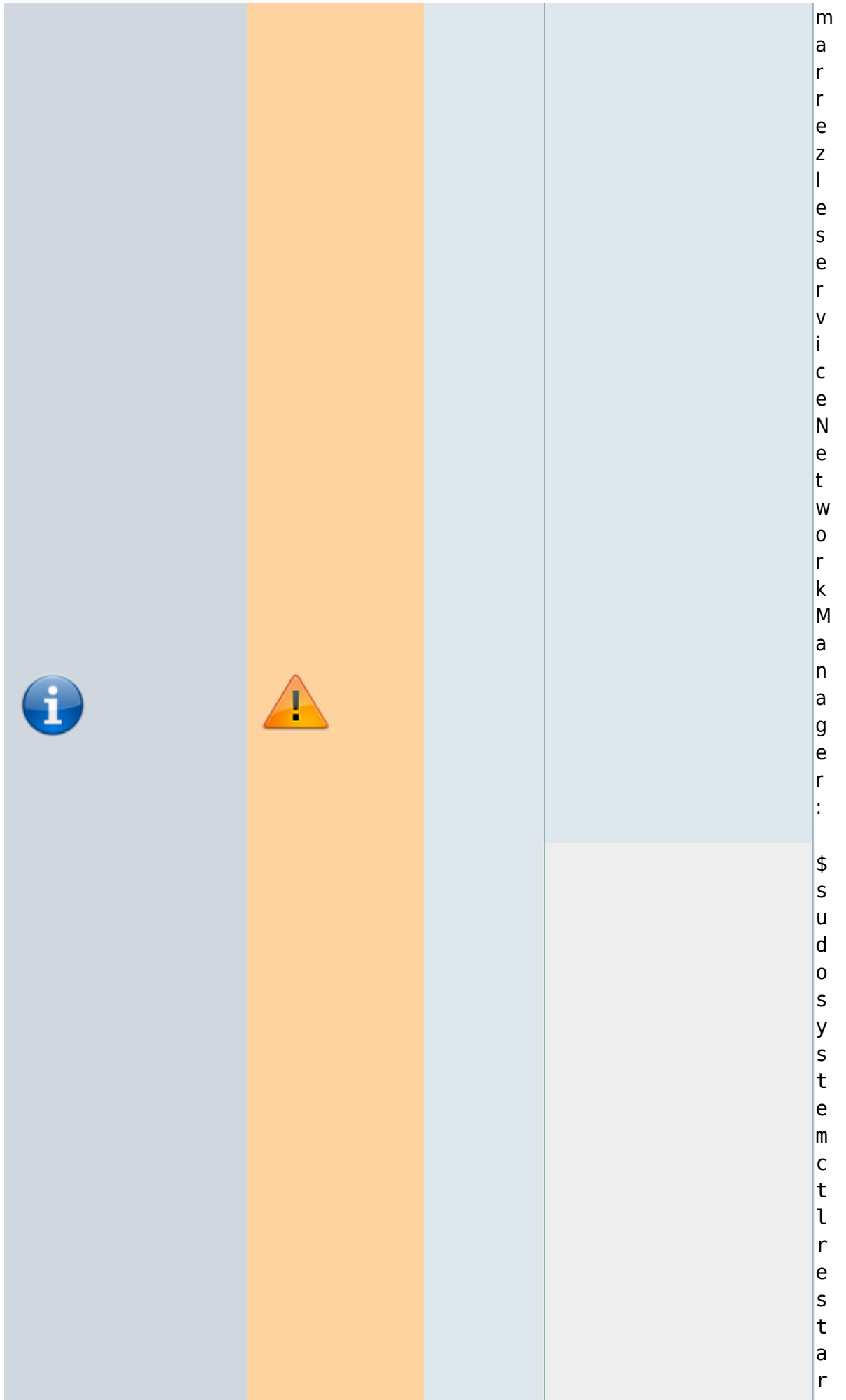
The image shows a large rectangular area with a light blue background. A vertical orange bar runs through the center. On the left side of the light blue area, there is a blue circular icon with a white lowercase letter 'i'. On the orange bar, there is a yellow triangular warning icon with a black exclamation mark.

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The image shows a vertical bar from a terminal window. The bar is divided into four vertical sections. The first section on the left is light blue and contains a blue circular icon with a white lowercase letter 'i'. The second section is orange and contains a yellow triangular warning icon with a black exclamation mark. The third section is light blue. The fourth section is light gray. To the right of the bar, the text 'm a r r e z l e s e r v i c e N e t w o r k M a n a g e r : \$ s u d o s y s t e m c t l r e s t a r' is visible, with each character on a new line.

			
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The banner consists of three vertical sections. The left section is blue and contains a white information icon 'i' inside a blue circle. The middle section is orange and contains a yellow warning triangle with a black exclamation mark. The right section is light blue and contains a vertical stack of characters: 'a', 'n', 'c', 'é', ':', '\$', 's', 'u', 'd', 'o', 'p', 's', '-', 'e', 'f', 'l', 'g', 'r', 'e', 'p', 'd', 'n', 's', 'm', 'a', 's', 'q', '.', '.', 'x', 'x', 'x', 'x', 'x', 'x', '1', '3', '6', '5', '4', '4', '8', '3', '1', '0', '0', '9', ':'. The characters are arranged in a column on the right edge of the banner.



			
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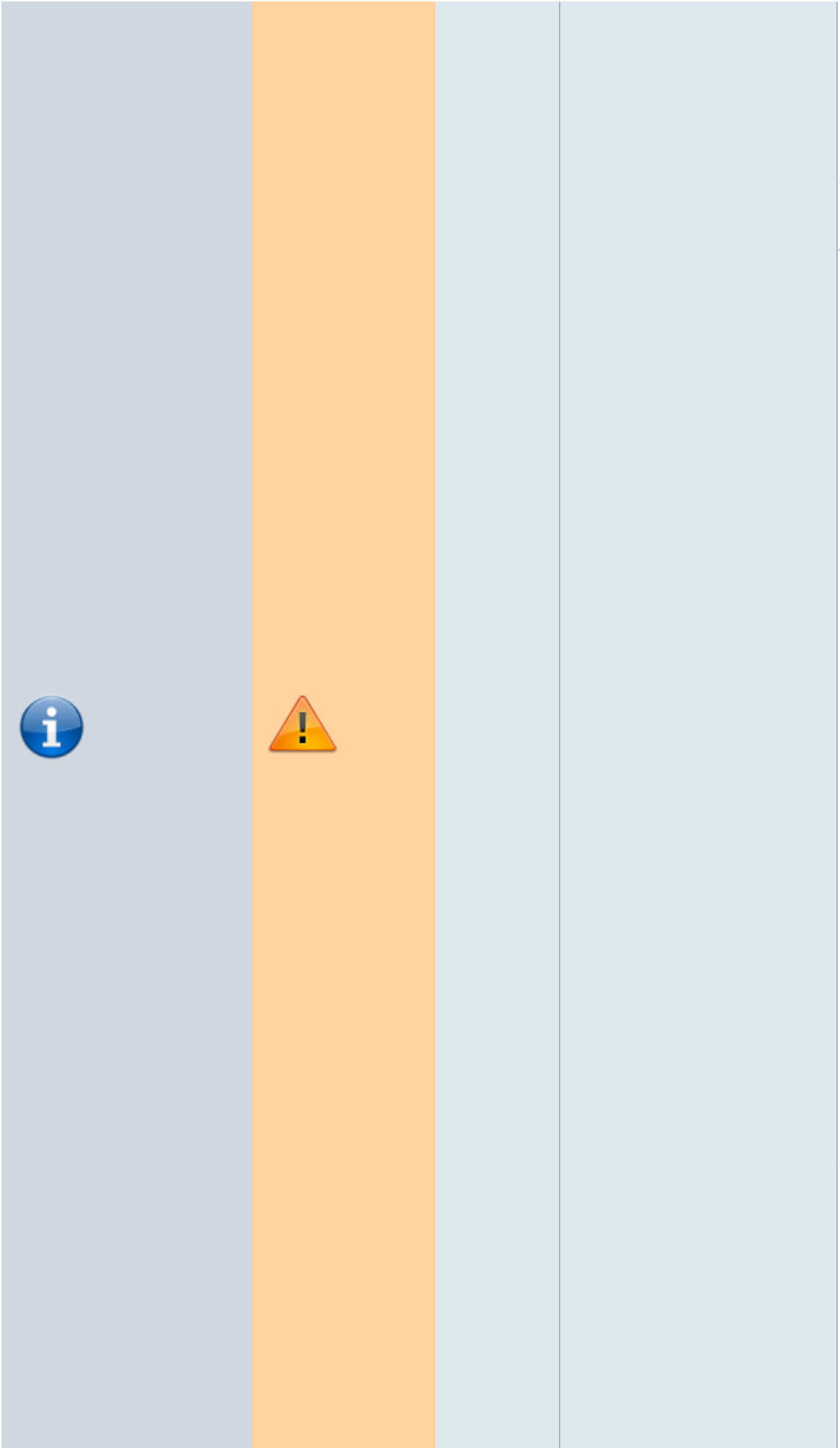
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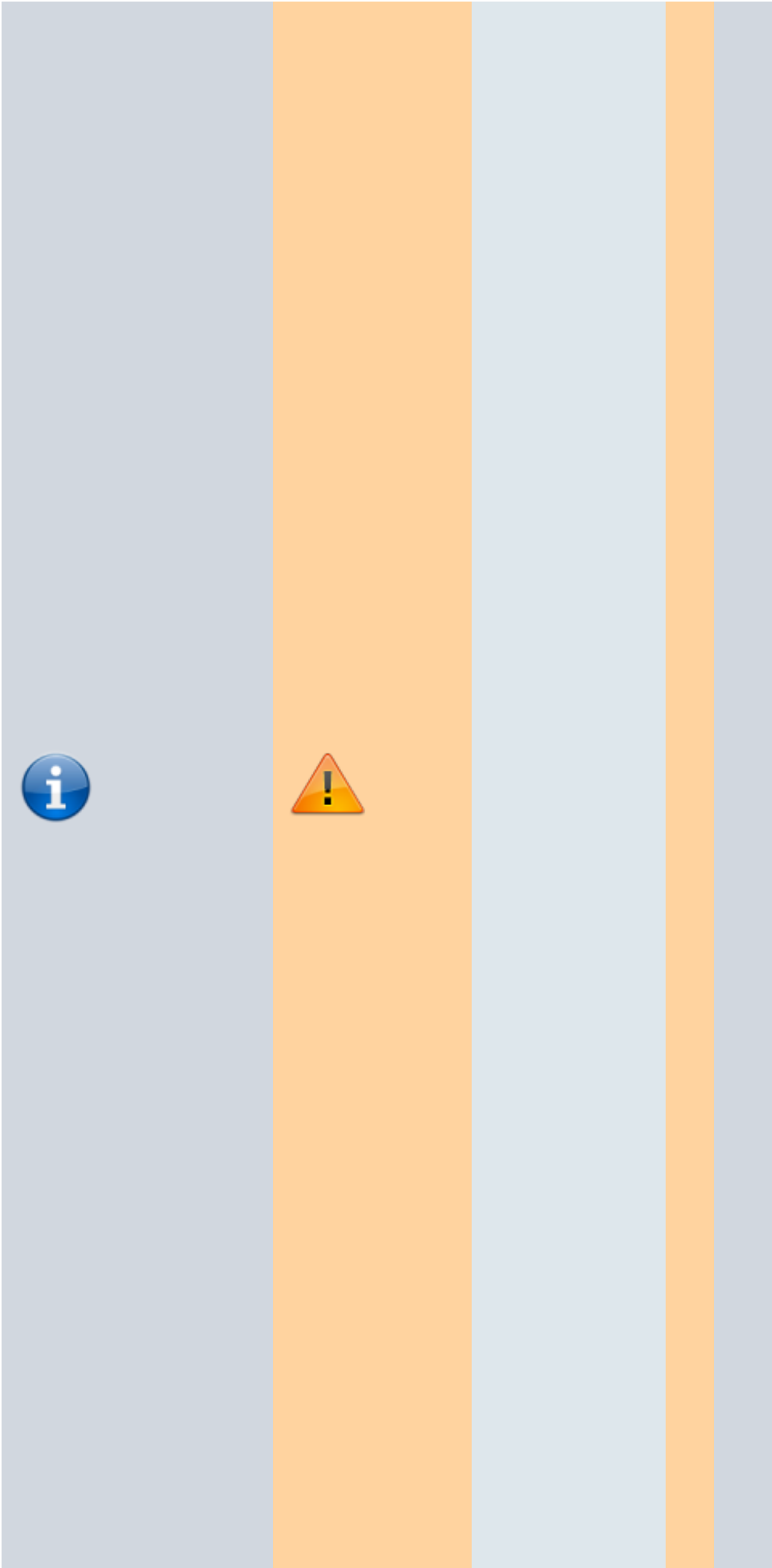


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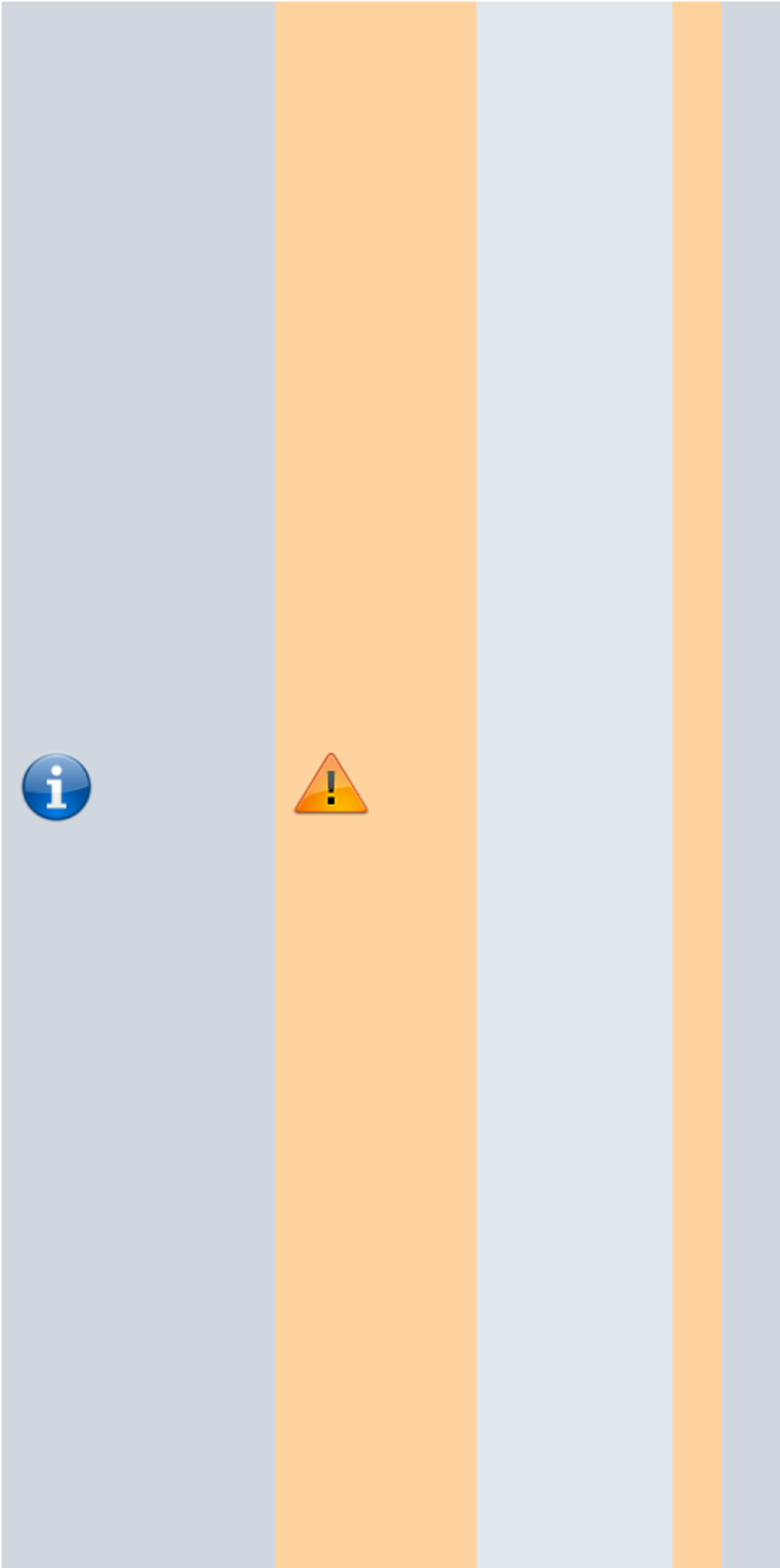


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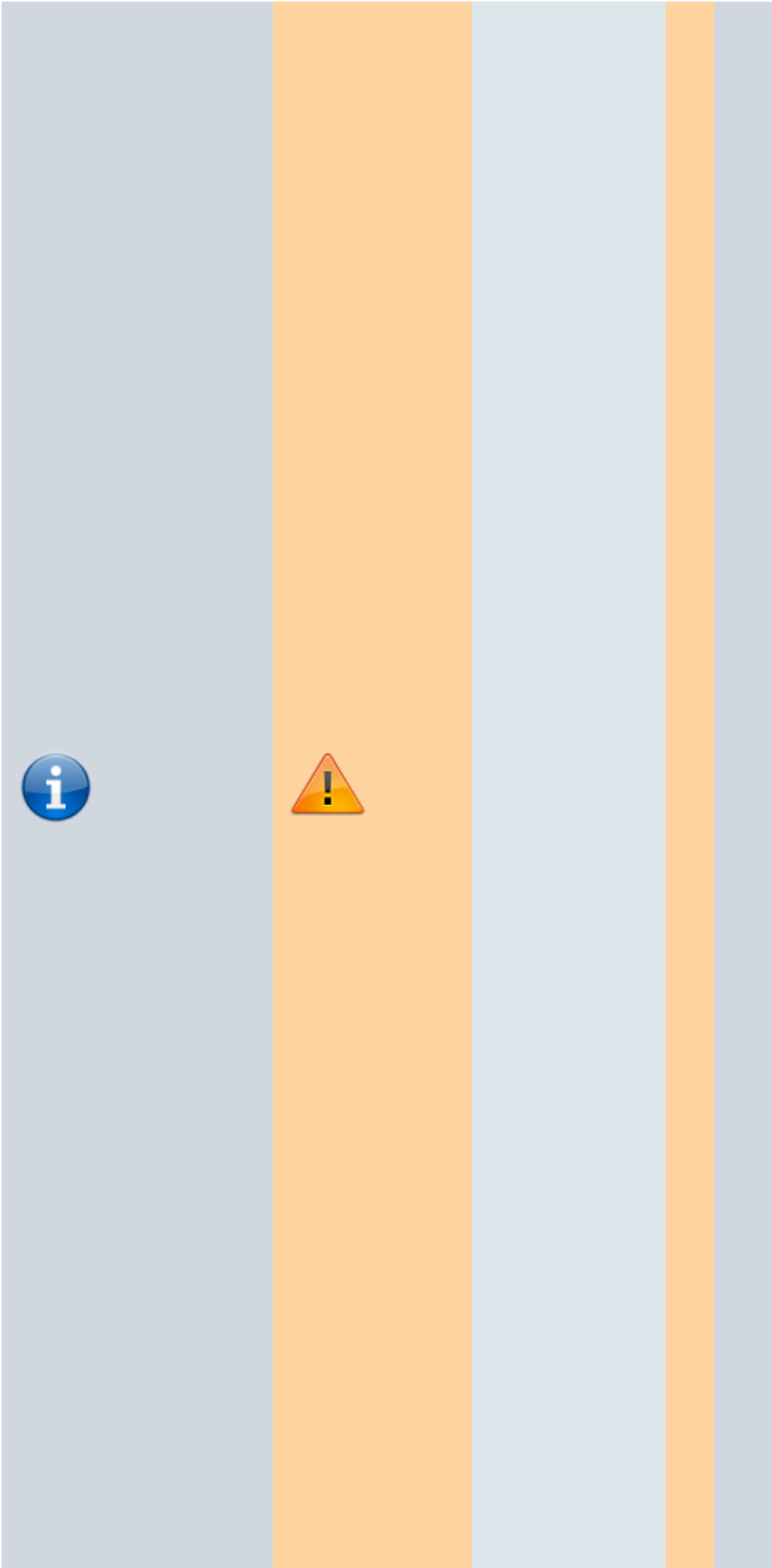
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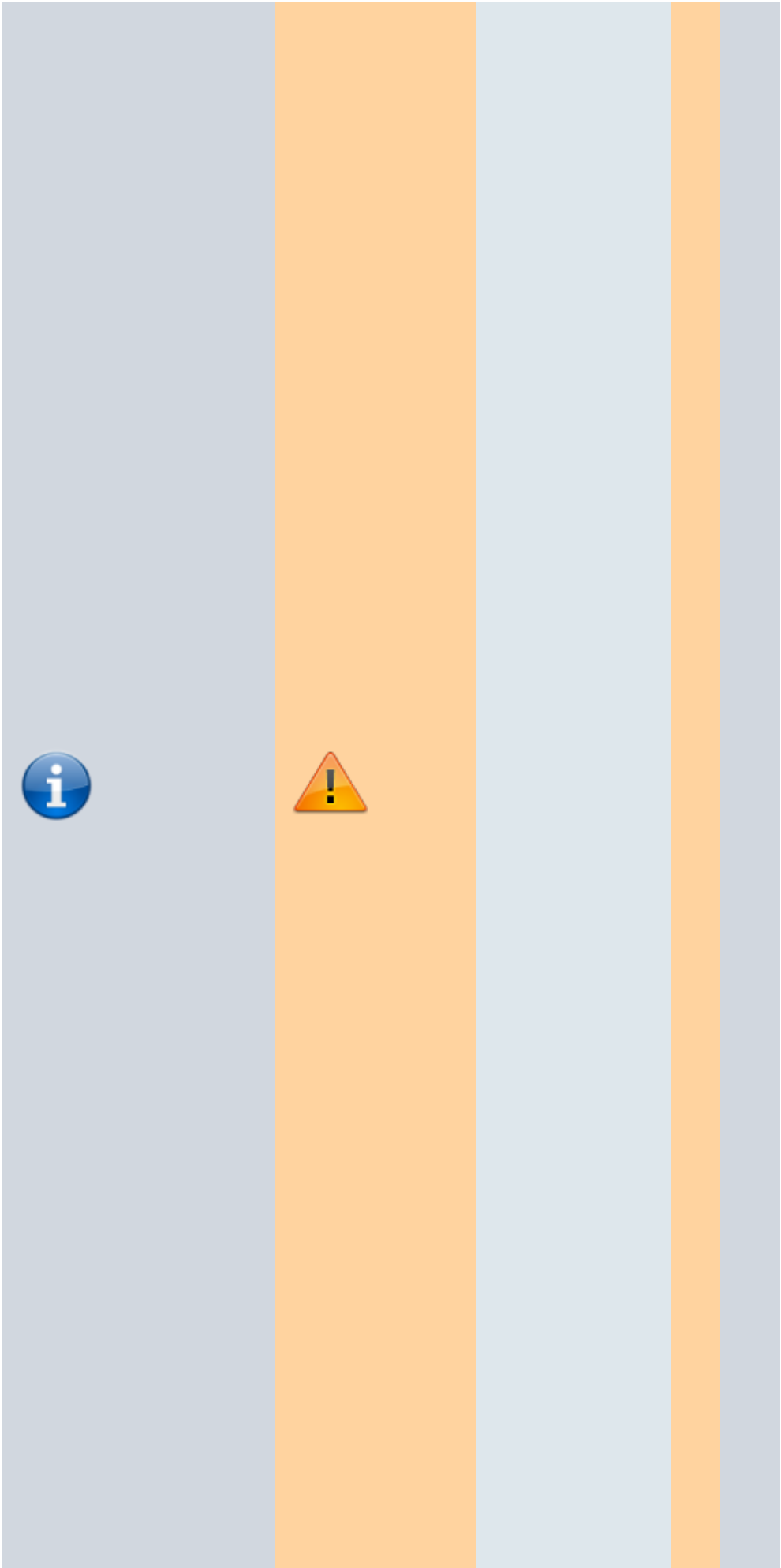
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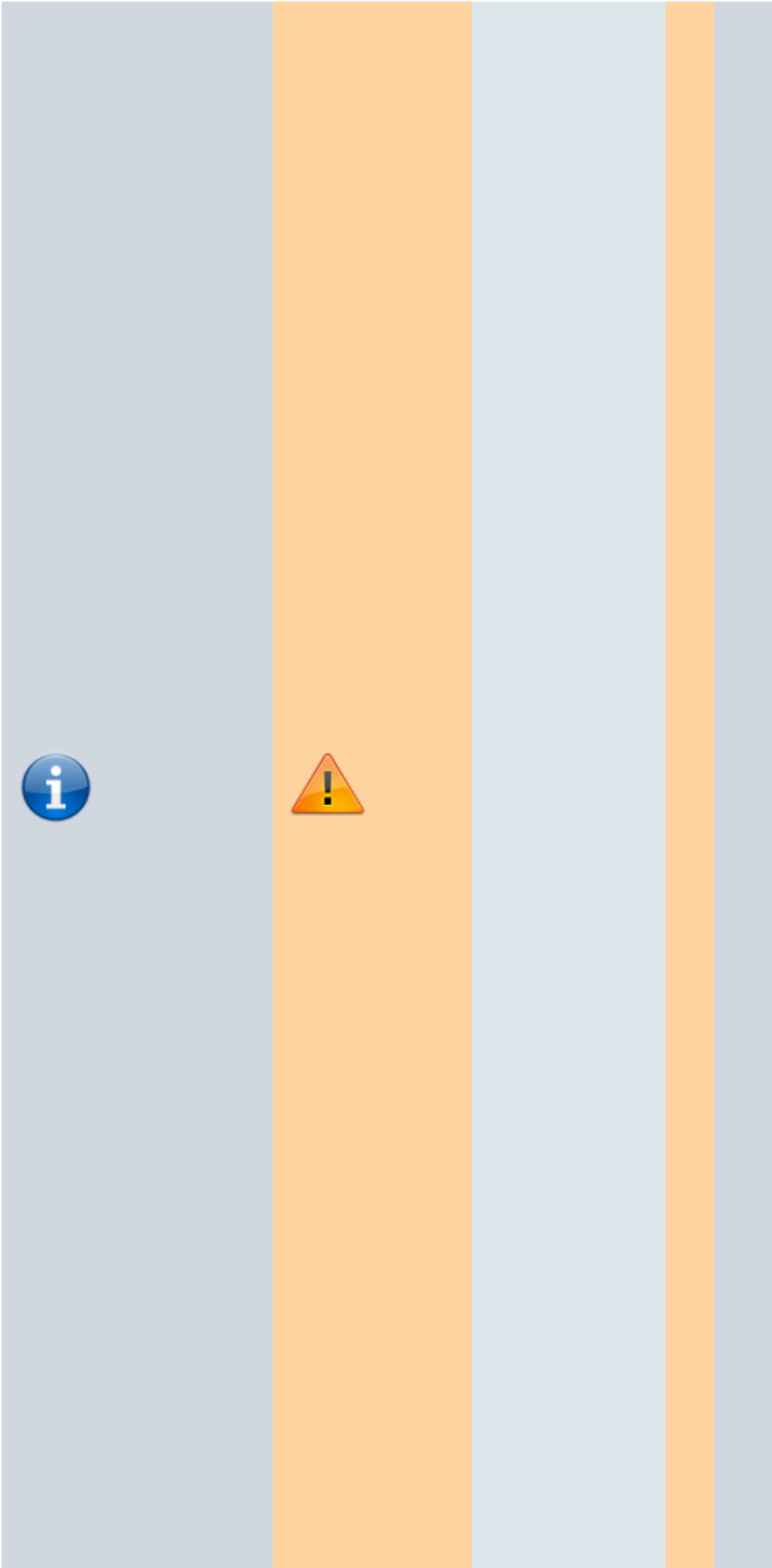
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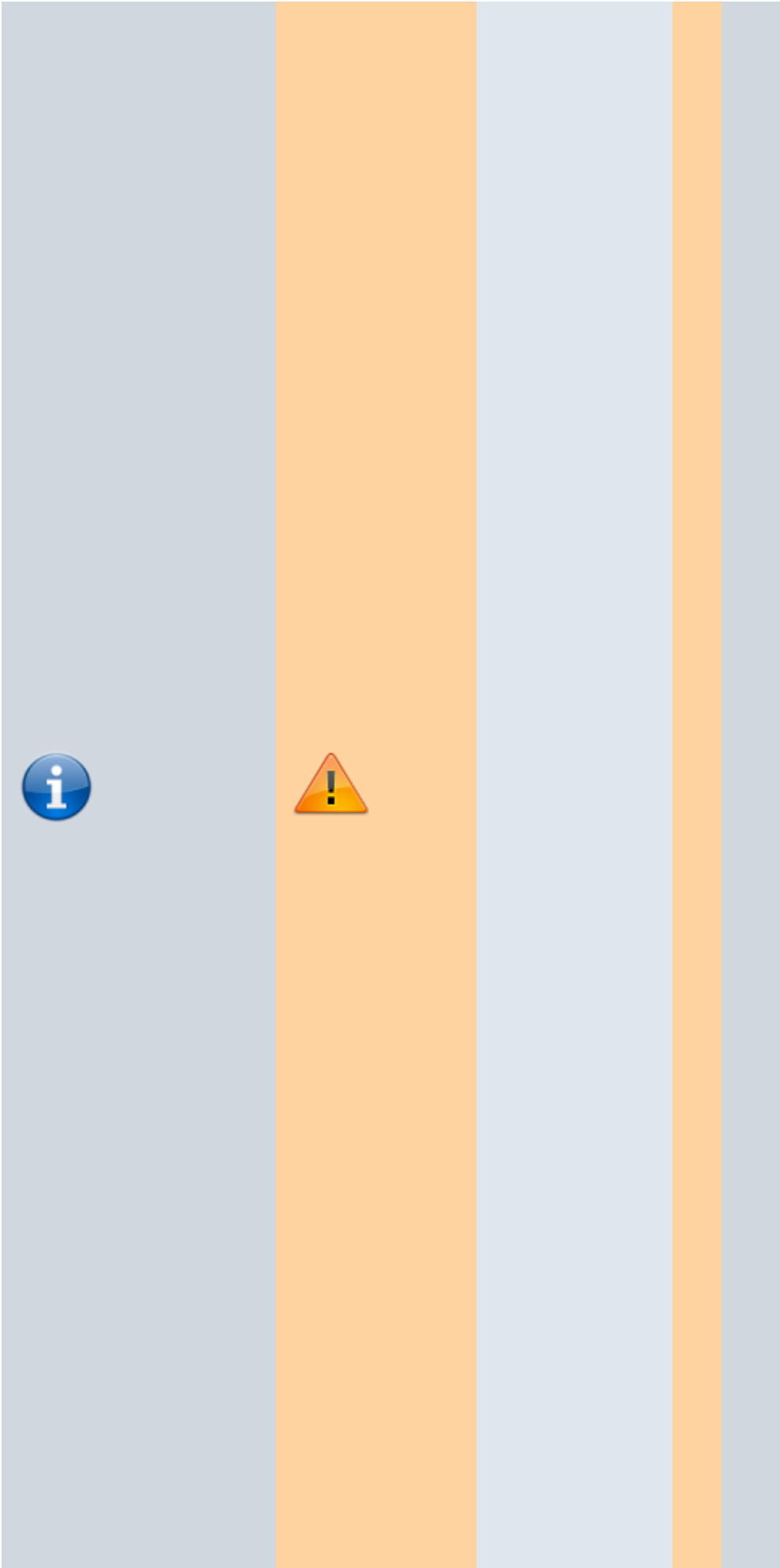


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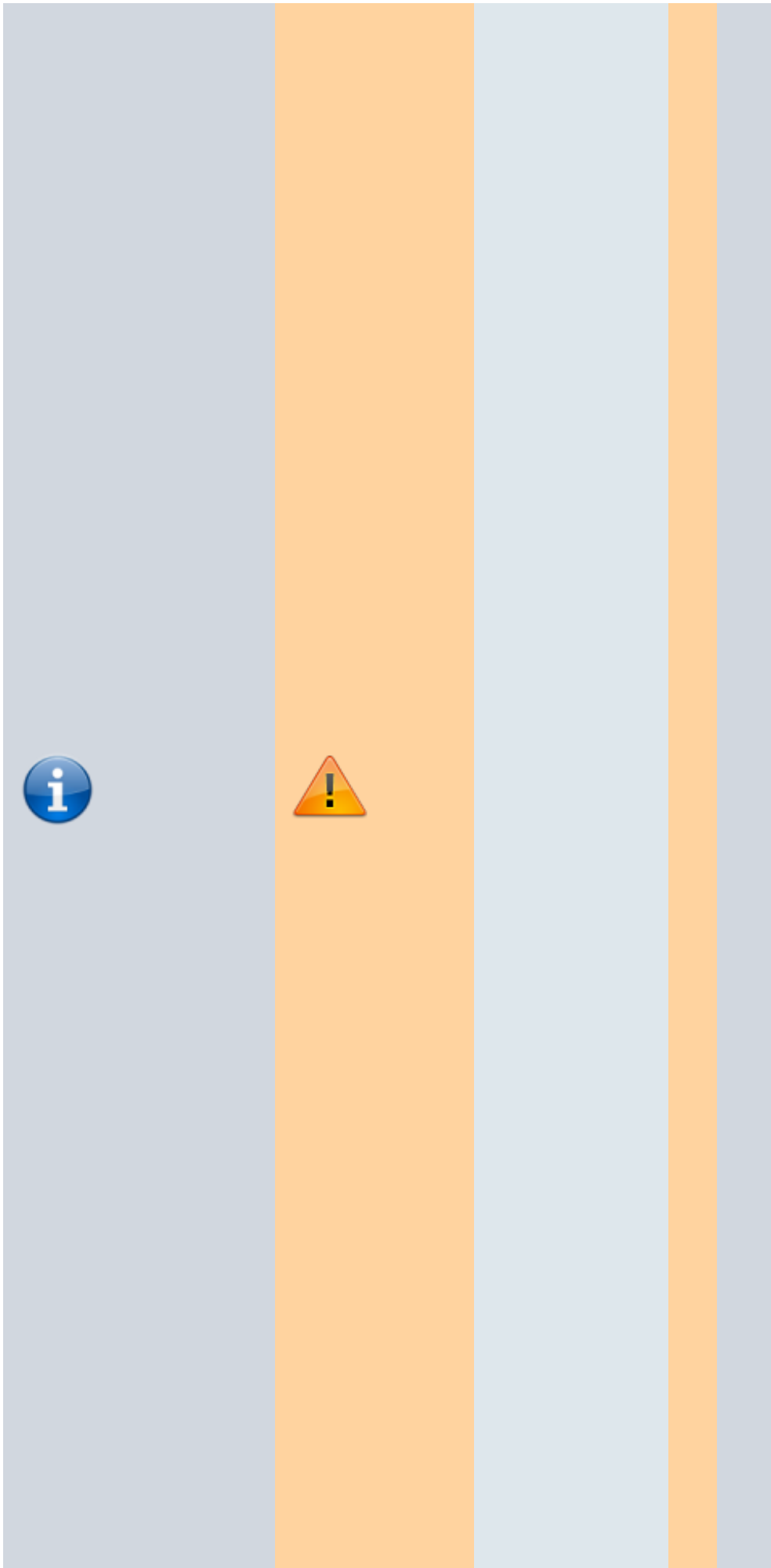
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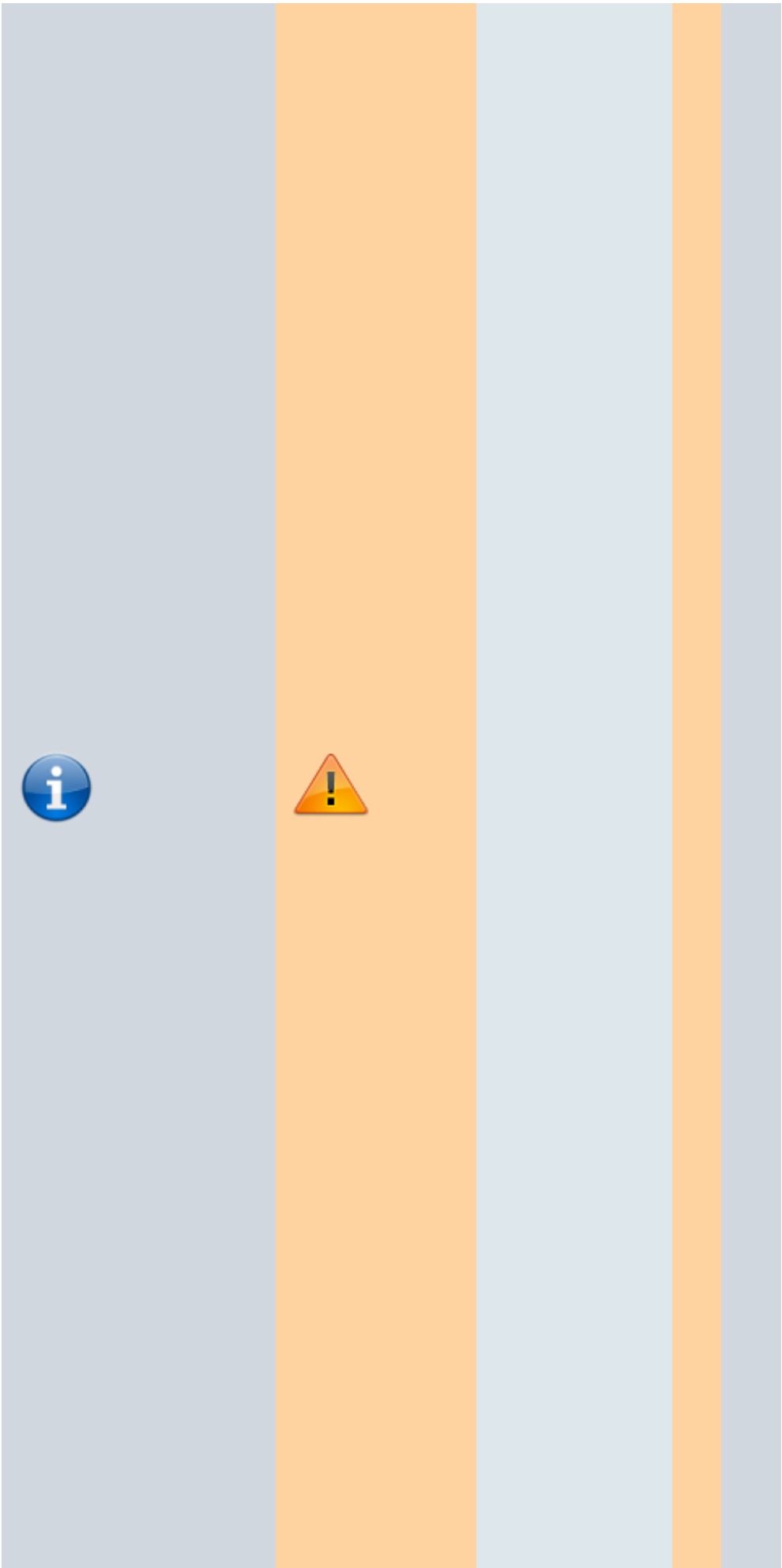


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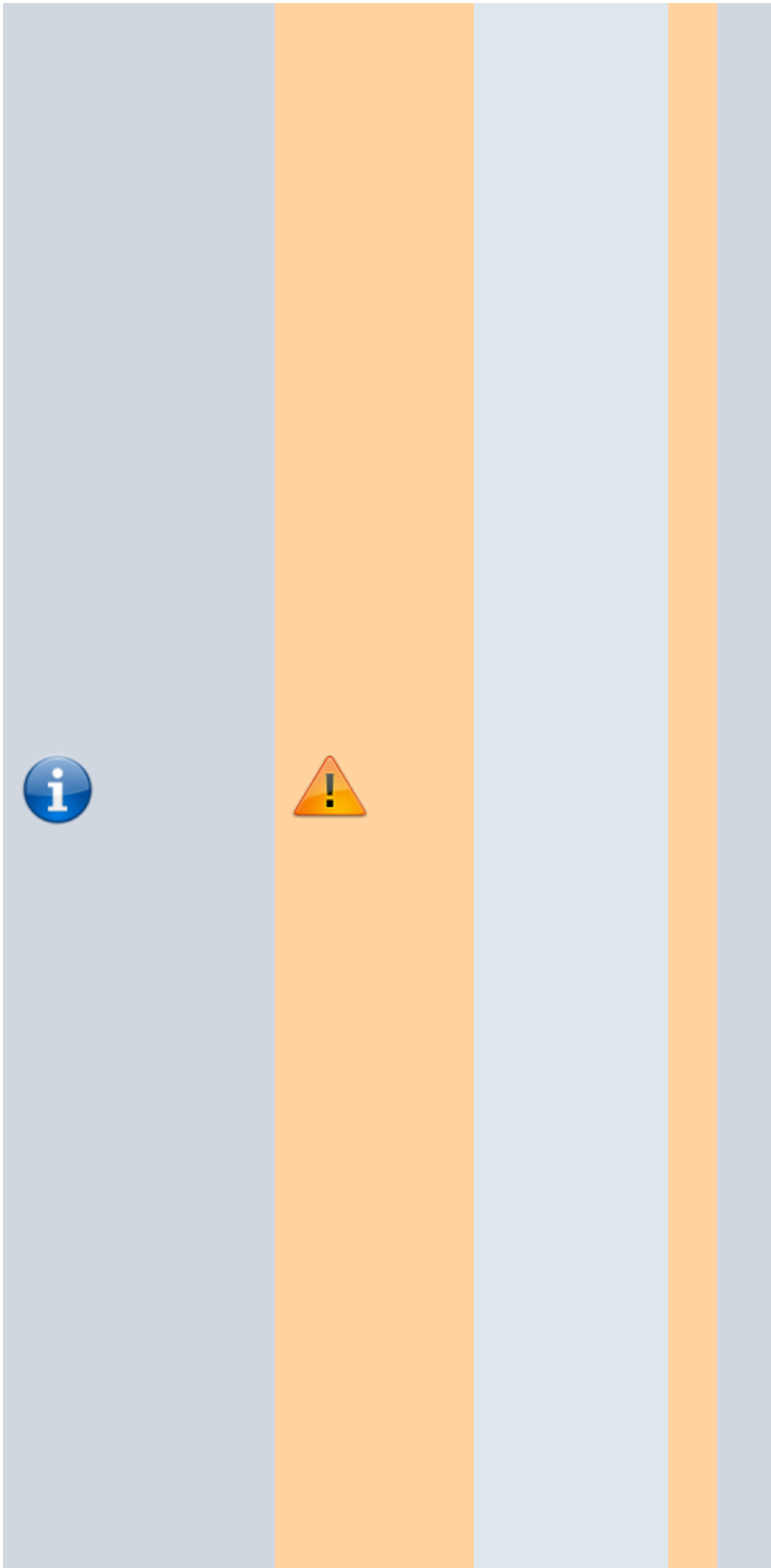
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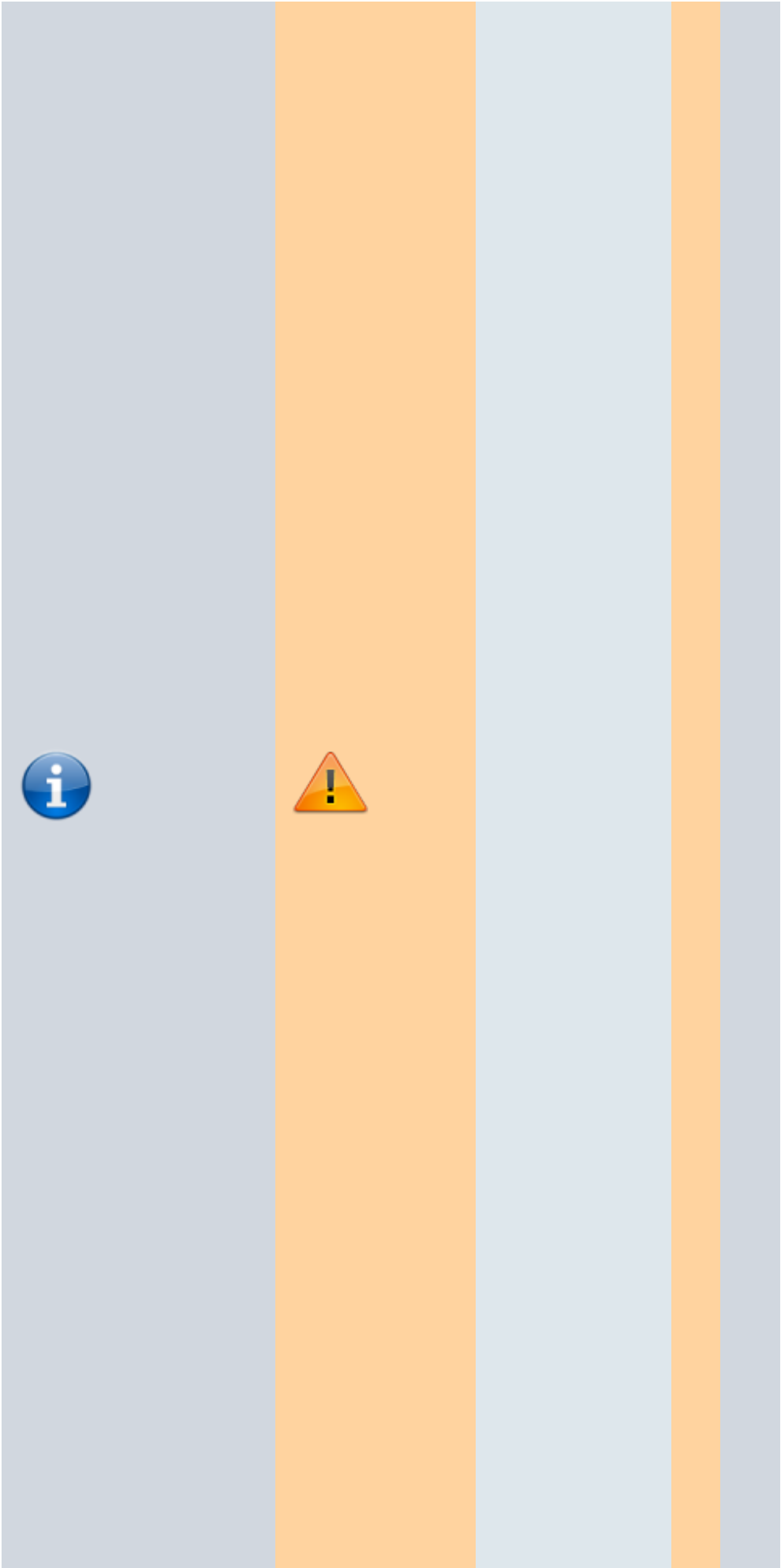
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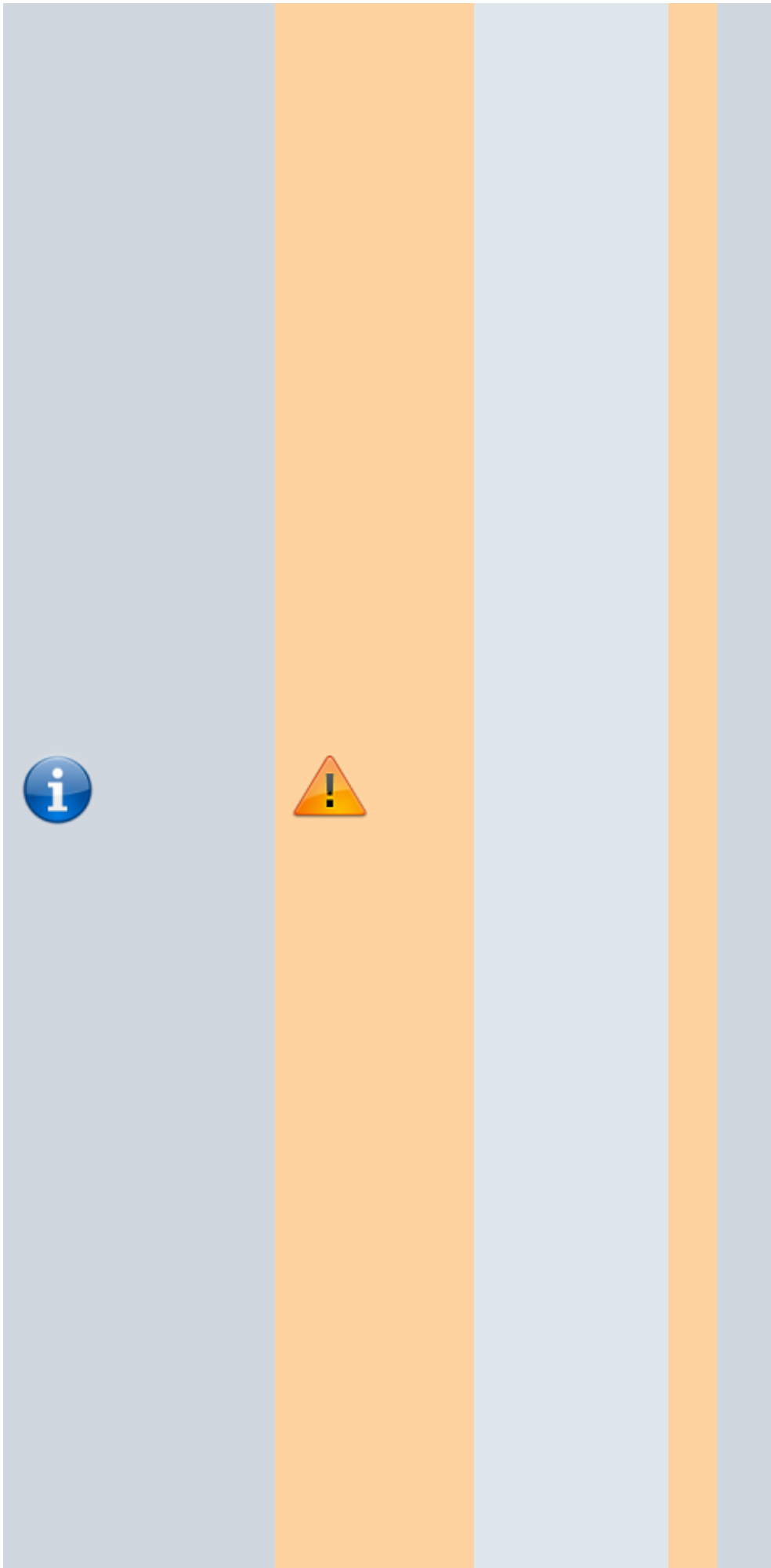
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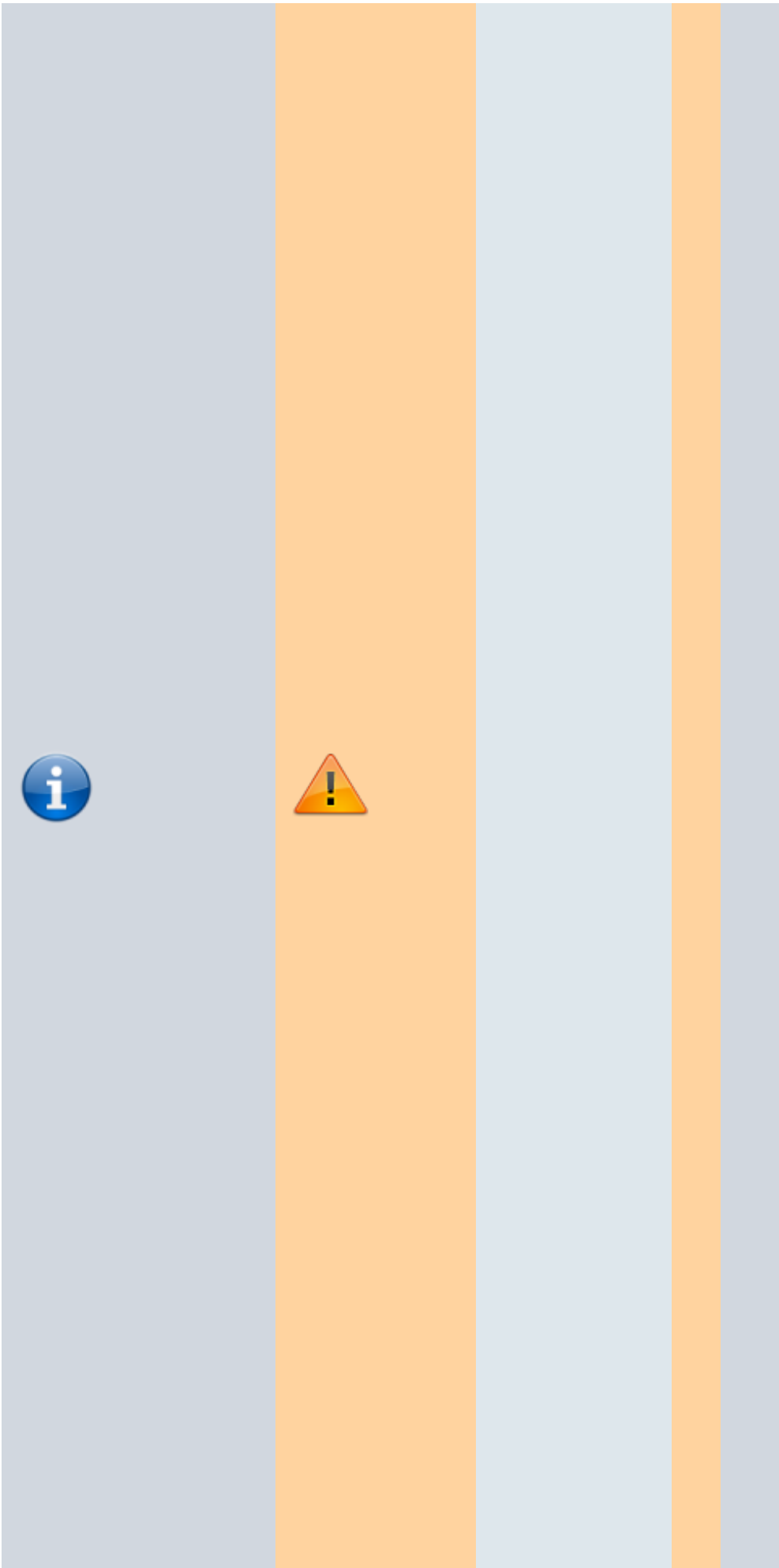
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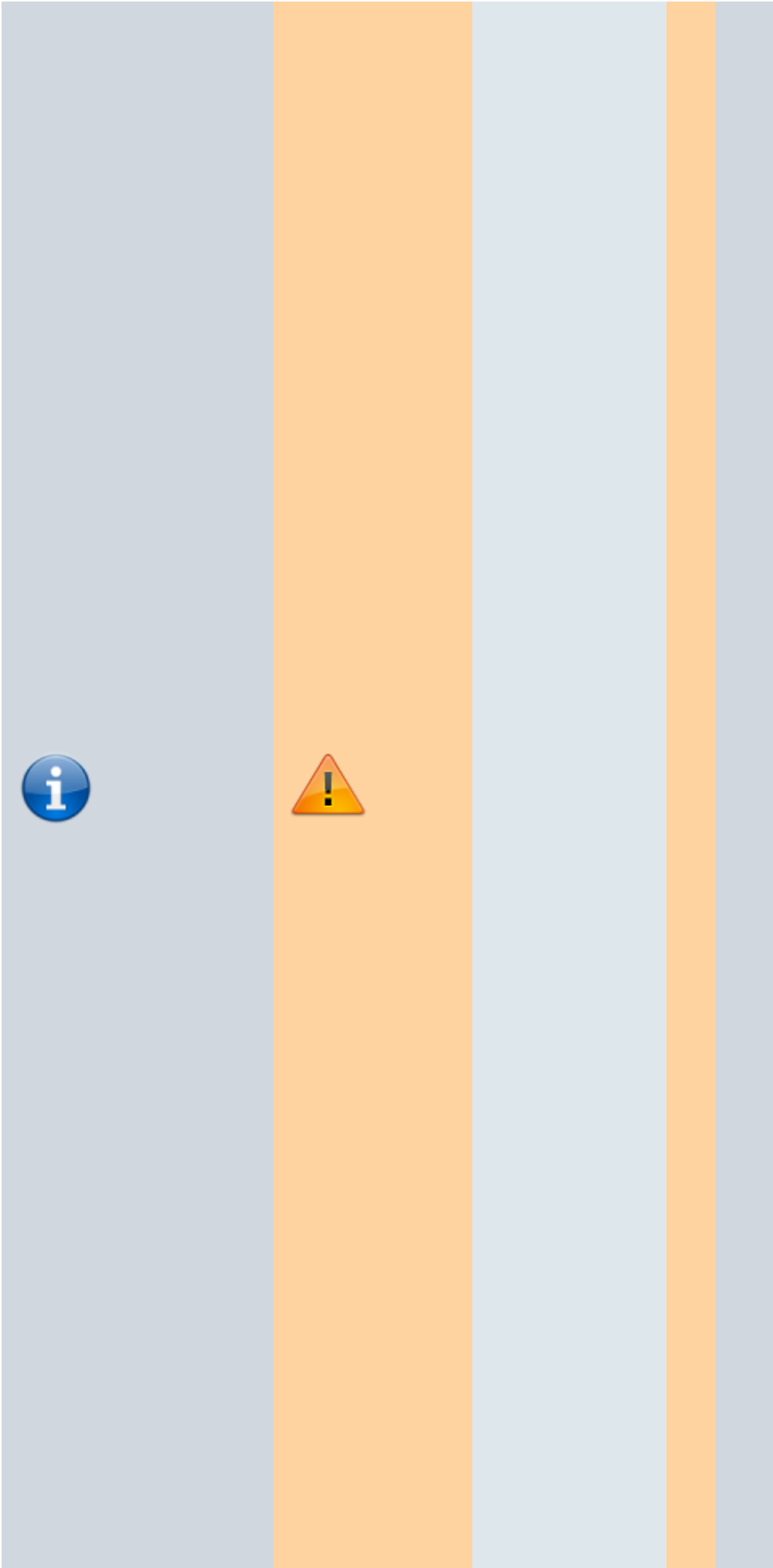
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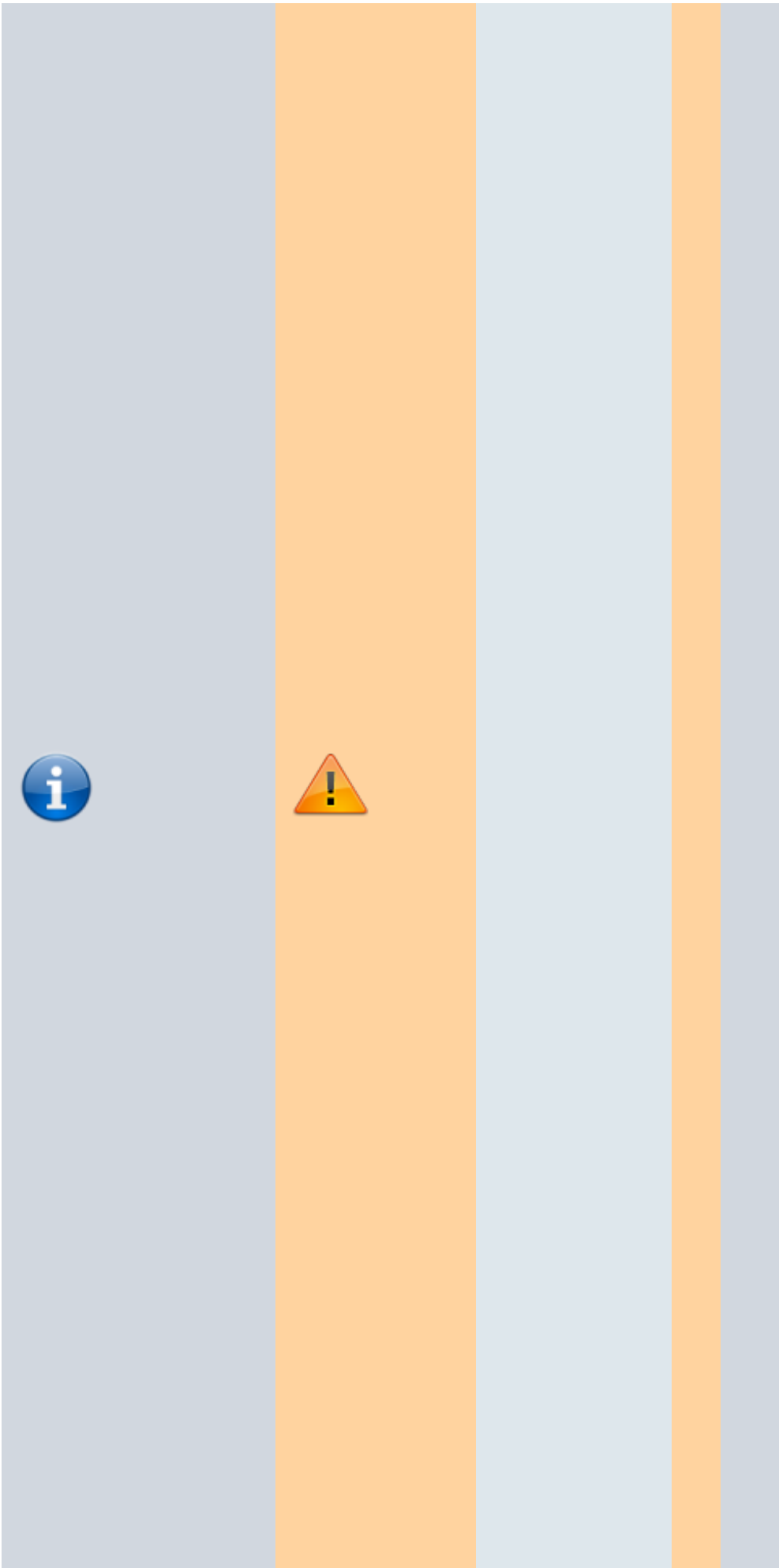
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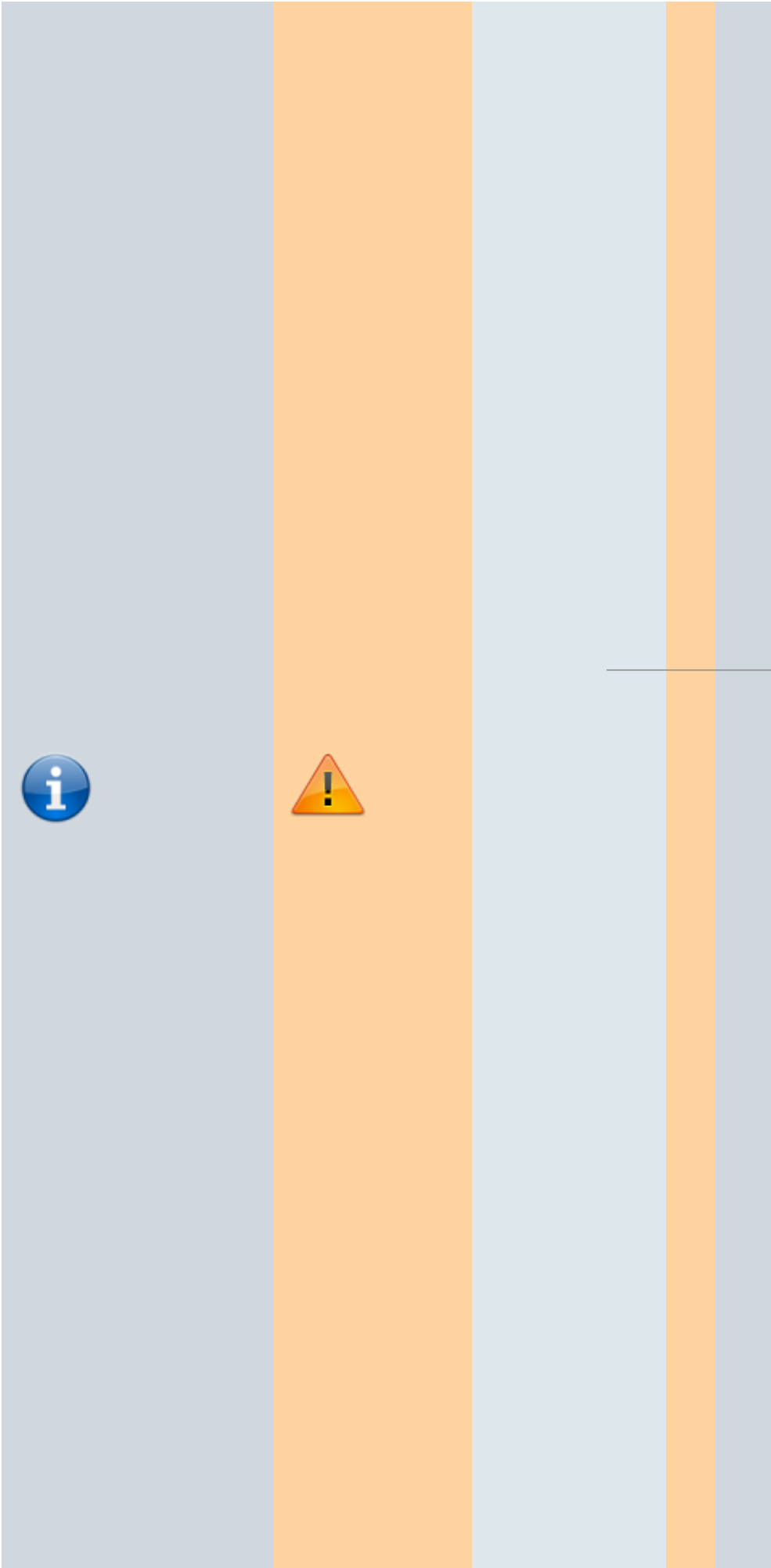
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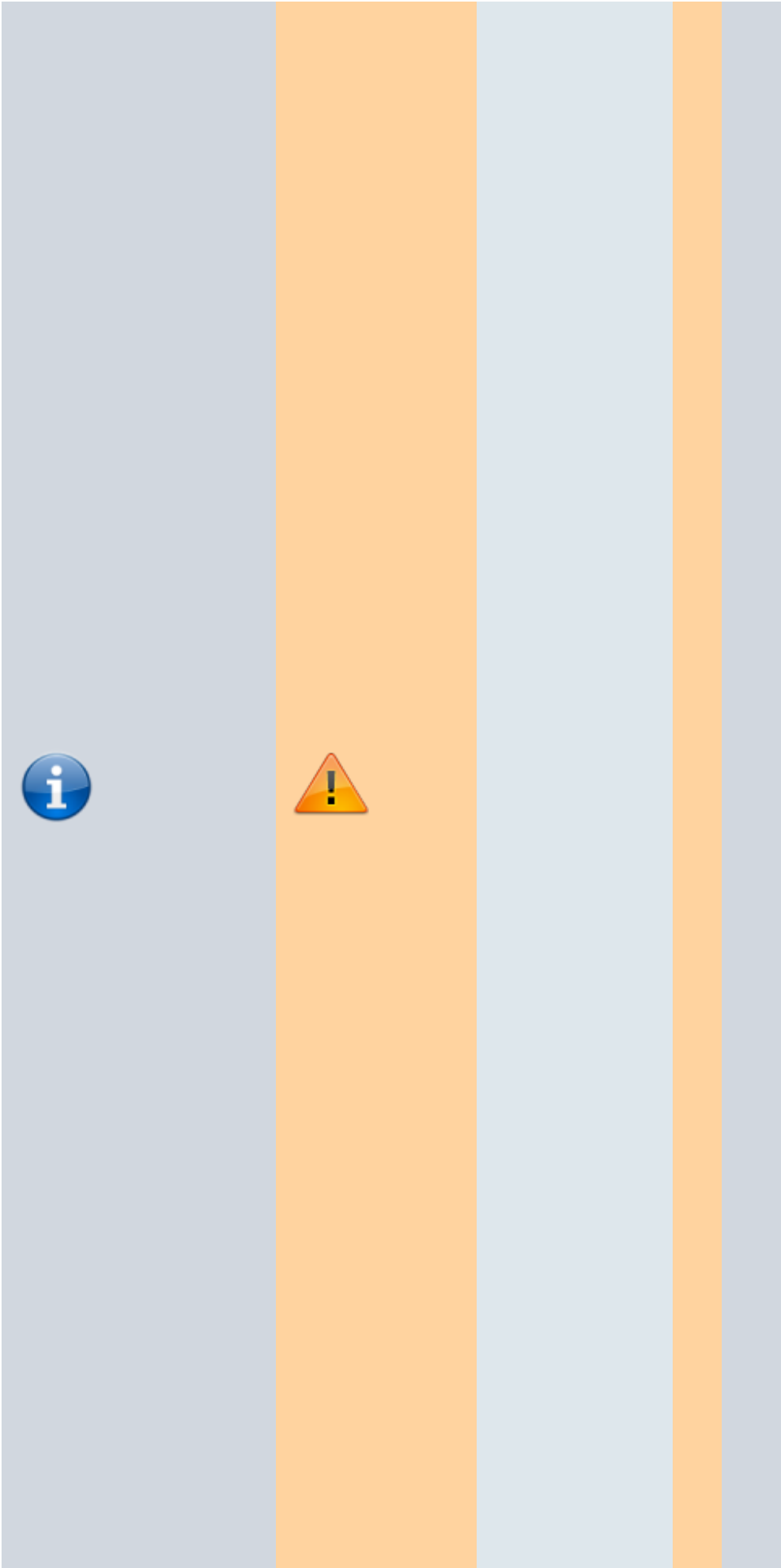


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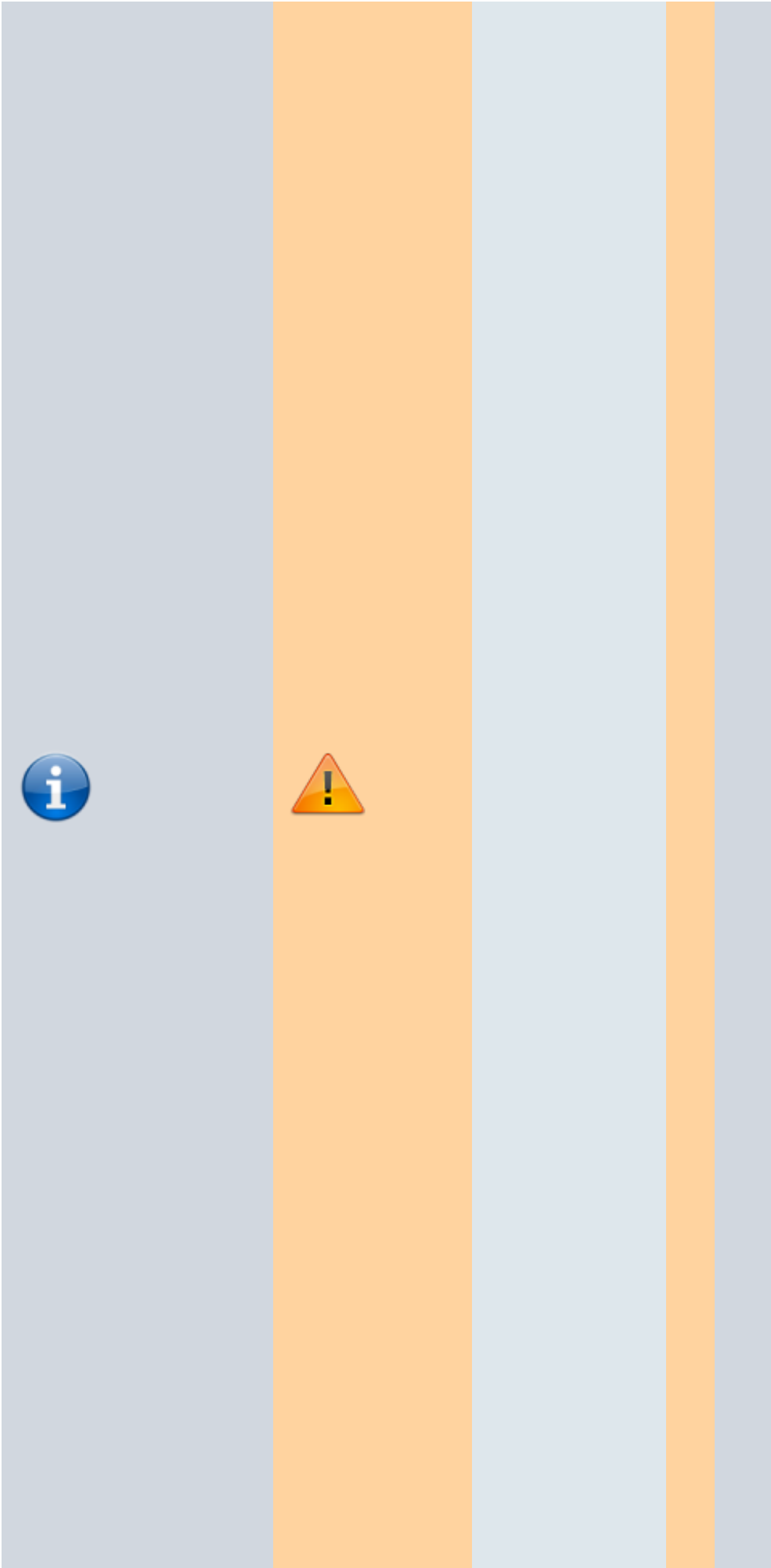


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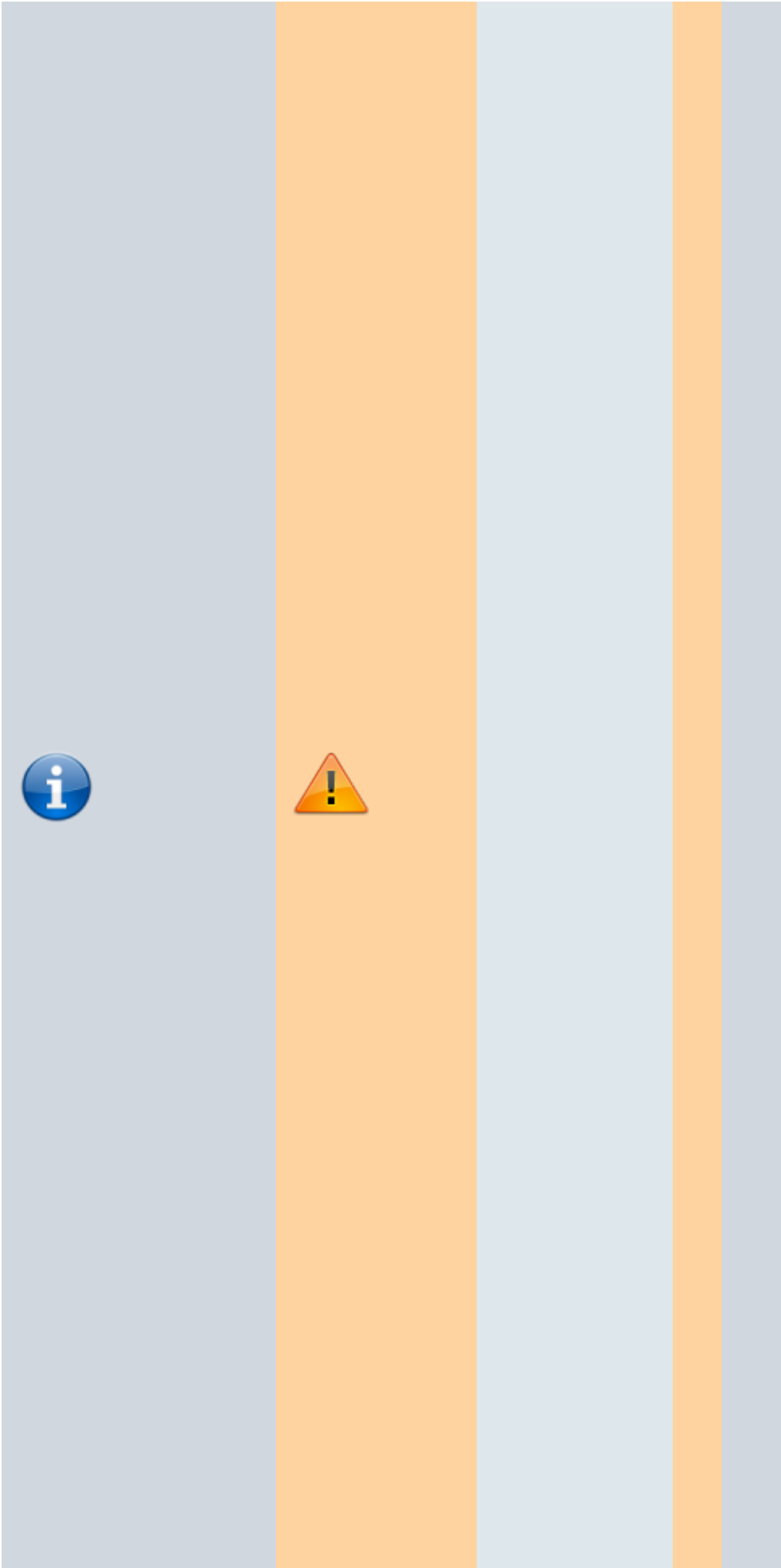




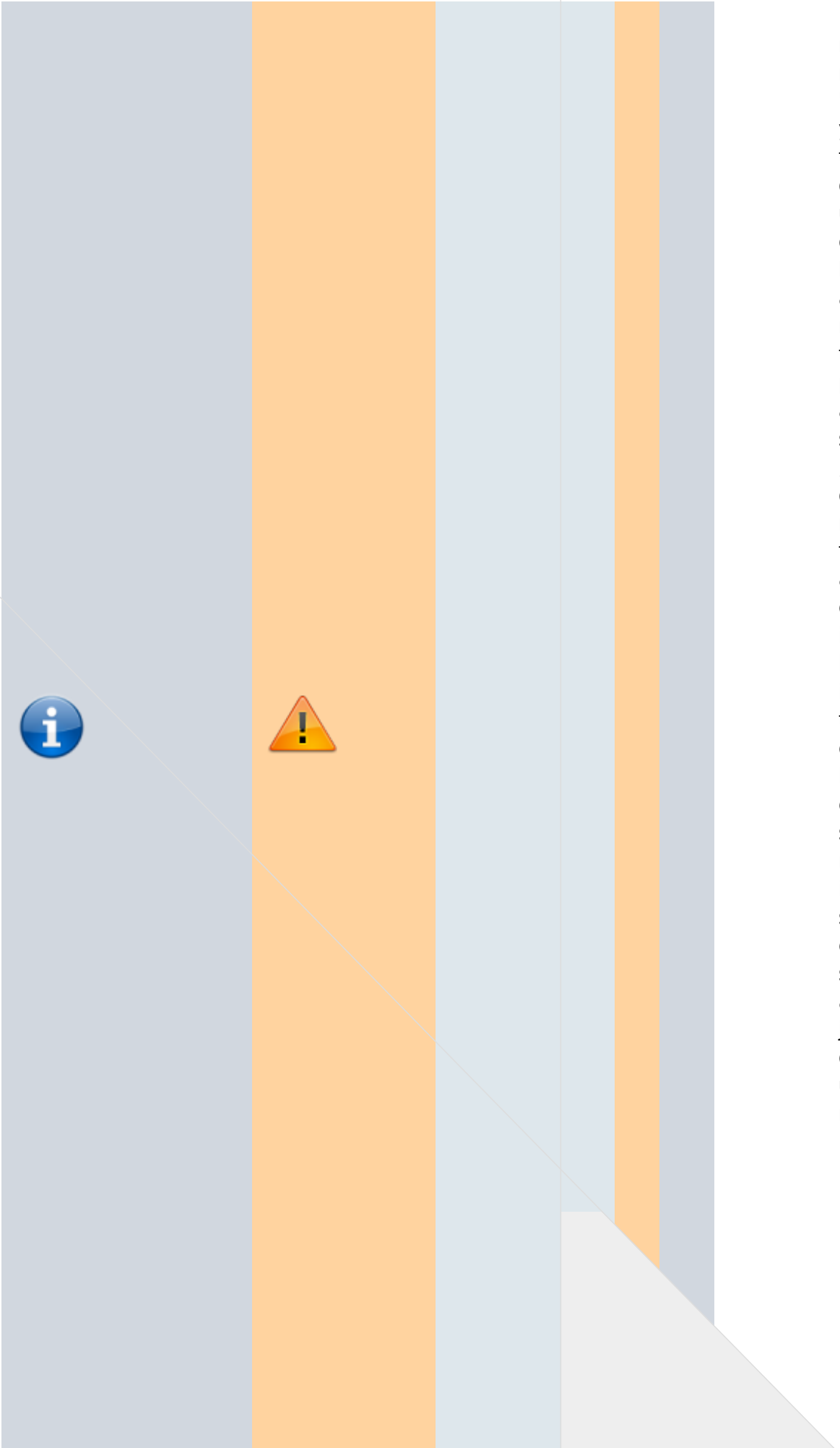
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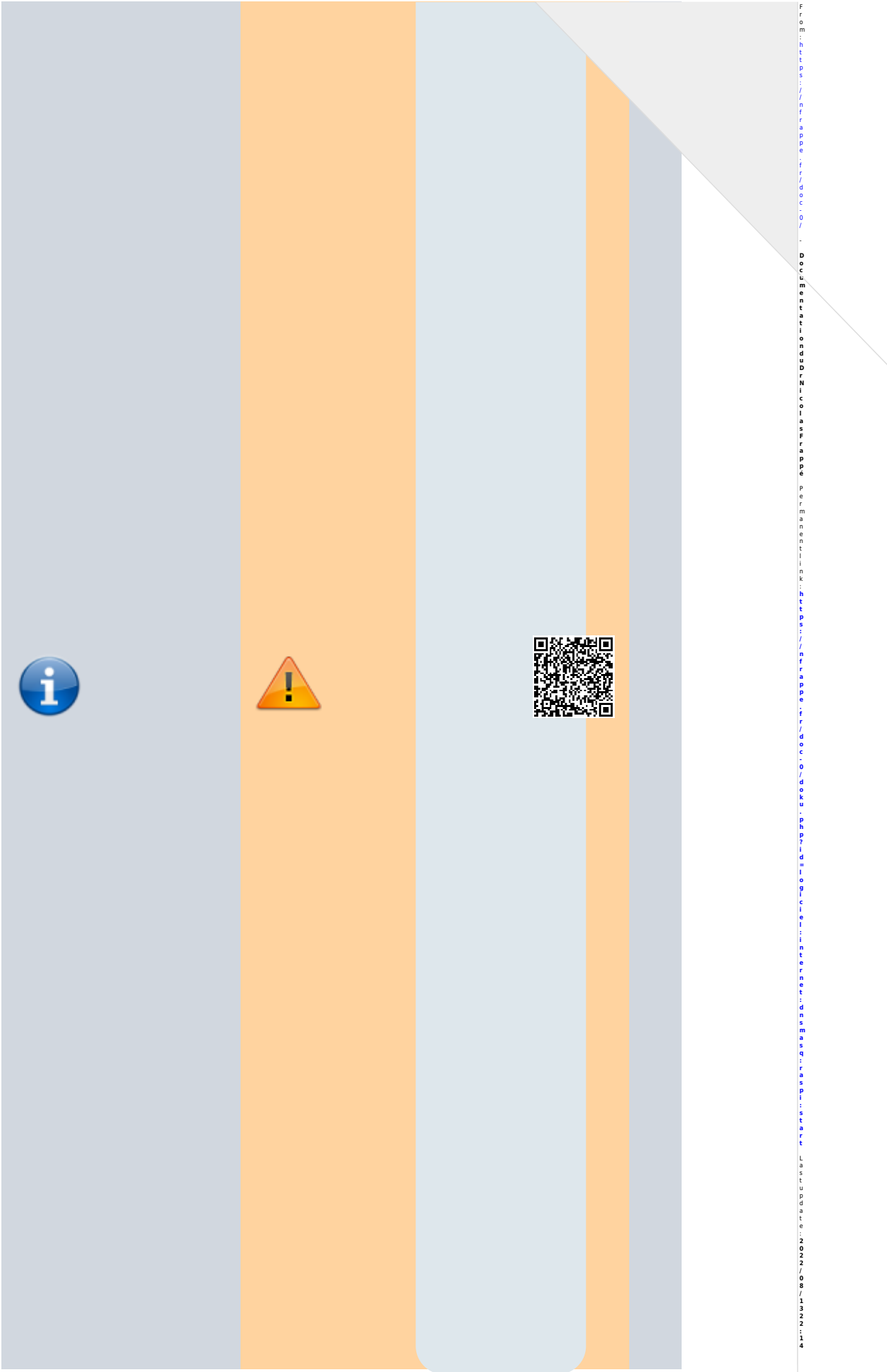
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