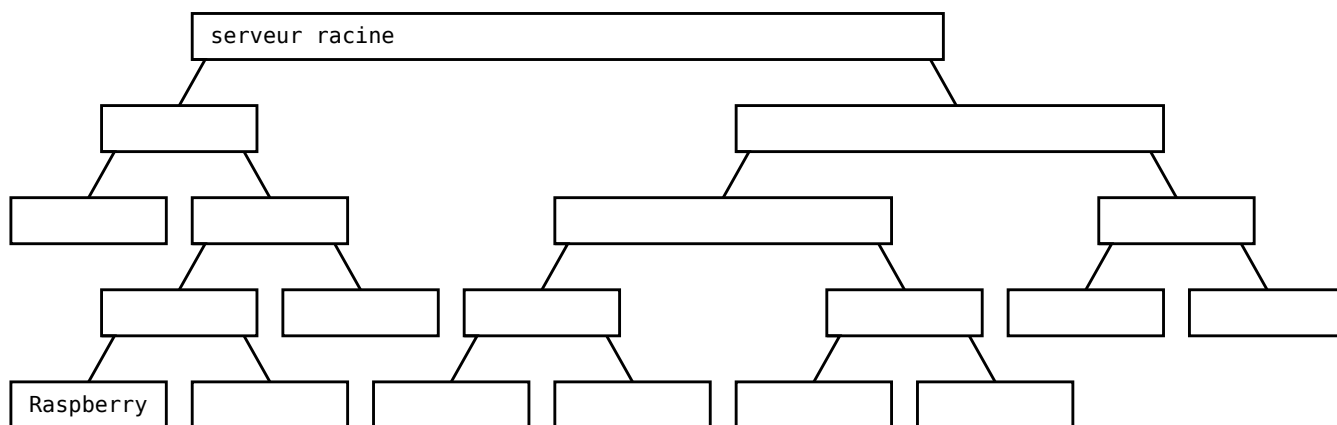
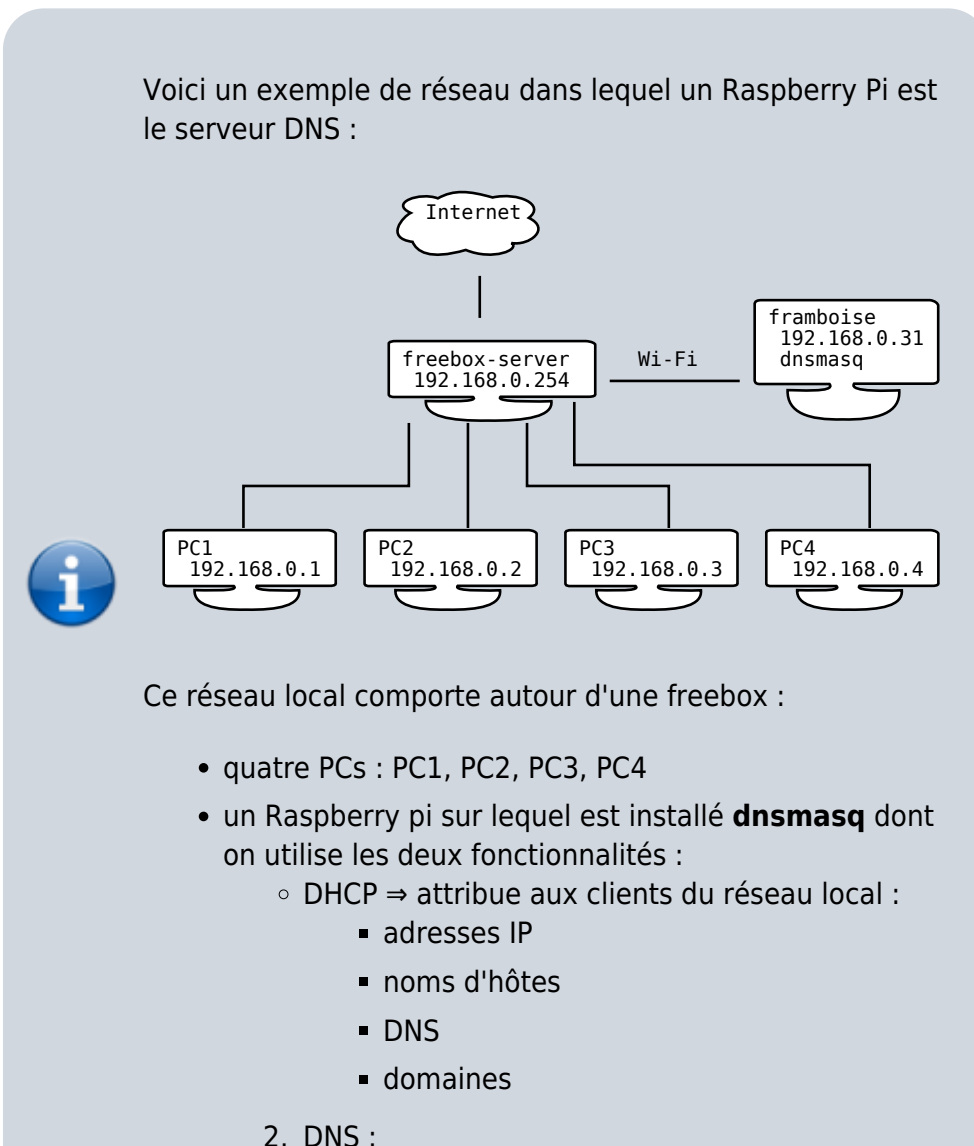


DnsMasq : utiliser votre Raspberry Pi comme serveur DNS (et accélérer Internet)

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

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

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

3. 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.dns masq**

2. **/etc/dnsmasq.conf**
 (fichier de configuration principal, entièrement en commentaire)

- ⇒ 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

1. Pour une configuration basique, éditez avec les droits d'administration le fichier **/etc/dnsmasq.d/basique.conf** :

[/etc/dnsmasq.d/b](#)

asique.conf



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- **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@framboise
4:~ $ sudo
systemctl
restart
dnsmasq.serv
ice
```

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](#)

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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

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nera pas, même si une règle dhcp-host est spécifiée dans le fichier de configuration.

La free box-server est en effet configuré en IP statique sur la free box (192.168.0.254). Elle ne lance pas de



requête DHCP → dnsmaq ne reçoit donc pas de requête DHCP de la part de la free box.




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, dnsmasq est configuré par défaut pour les lire.

Dans le fichier /etc/hosts, il ne faut pas indiquer **framb** **oise**





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Voici un exemple
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de framboise :

[/etc/hosts](#)

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**Fichier
/etc/dnsmasq
.d/local.conf
(pour ne pas
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/etc/dnsmasq
.conf)**

Voir
[http://skimpax.w
eb4me.fr/wiki/do
ku.php/linux/dns
maq](http://skimpax.w
eb4me.fr/wiki/do
ku.php/linux/dns
maq)



[/etc/dnsmasq.d/l
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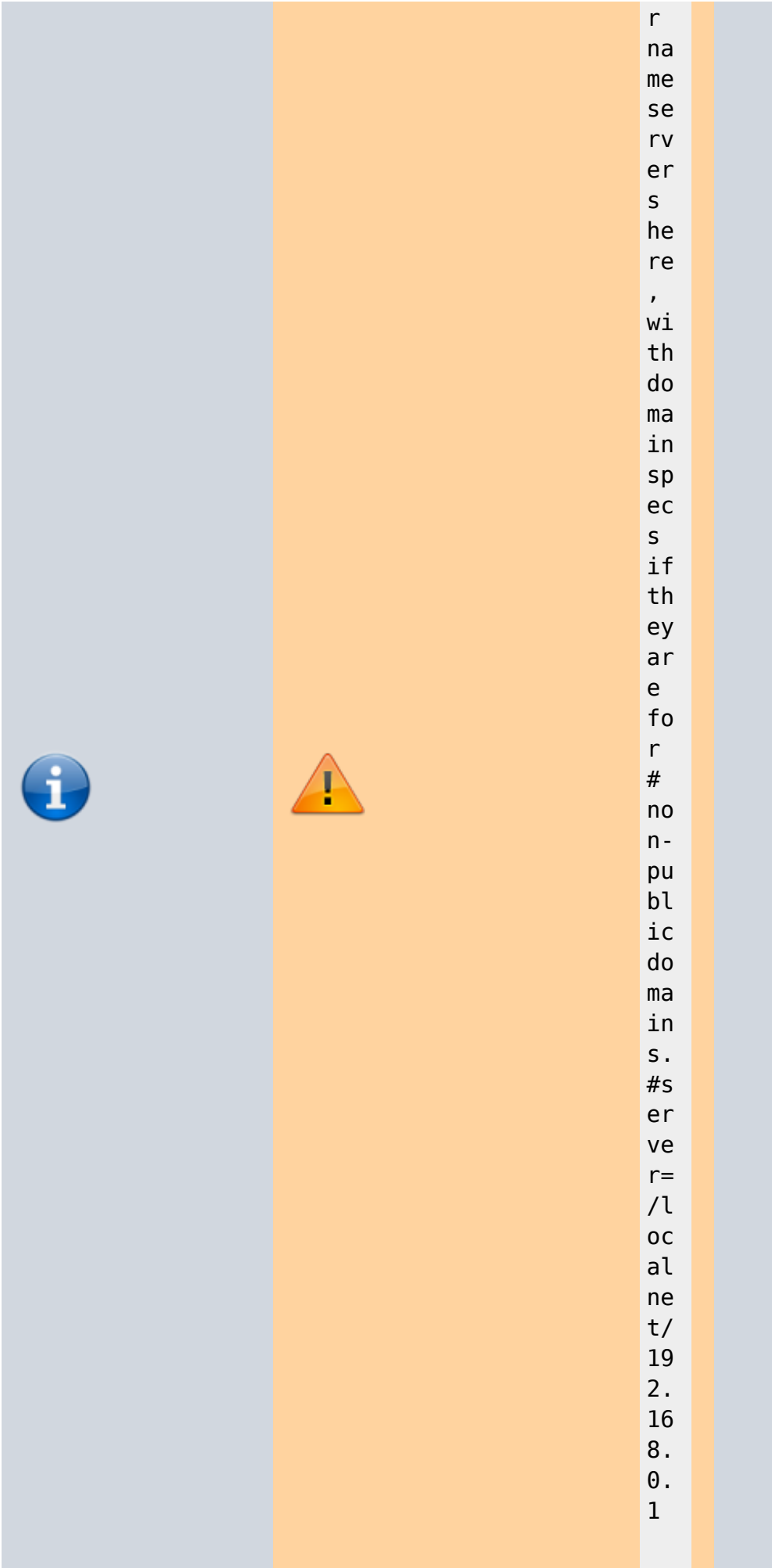


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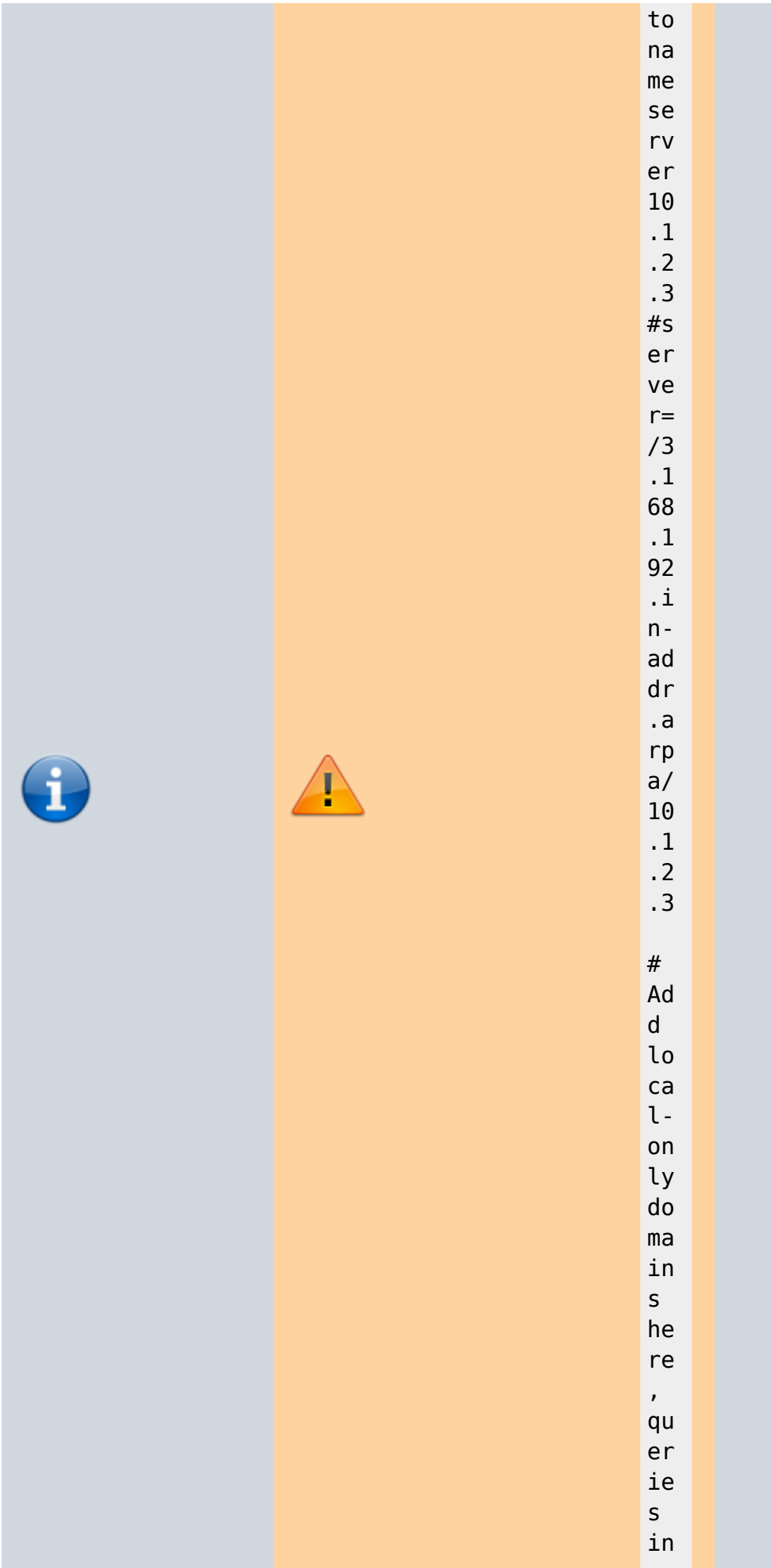


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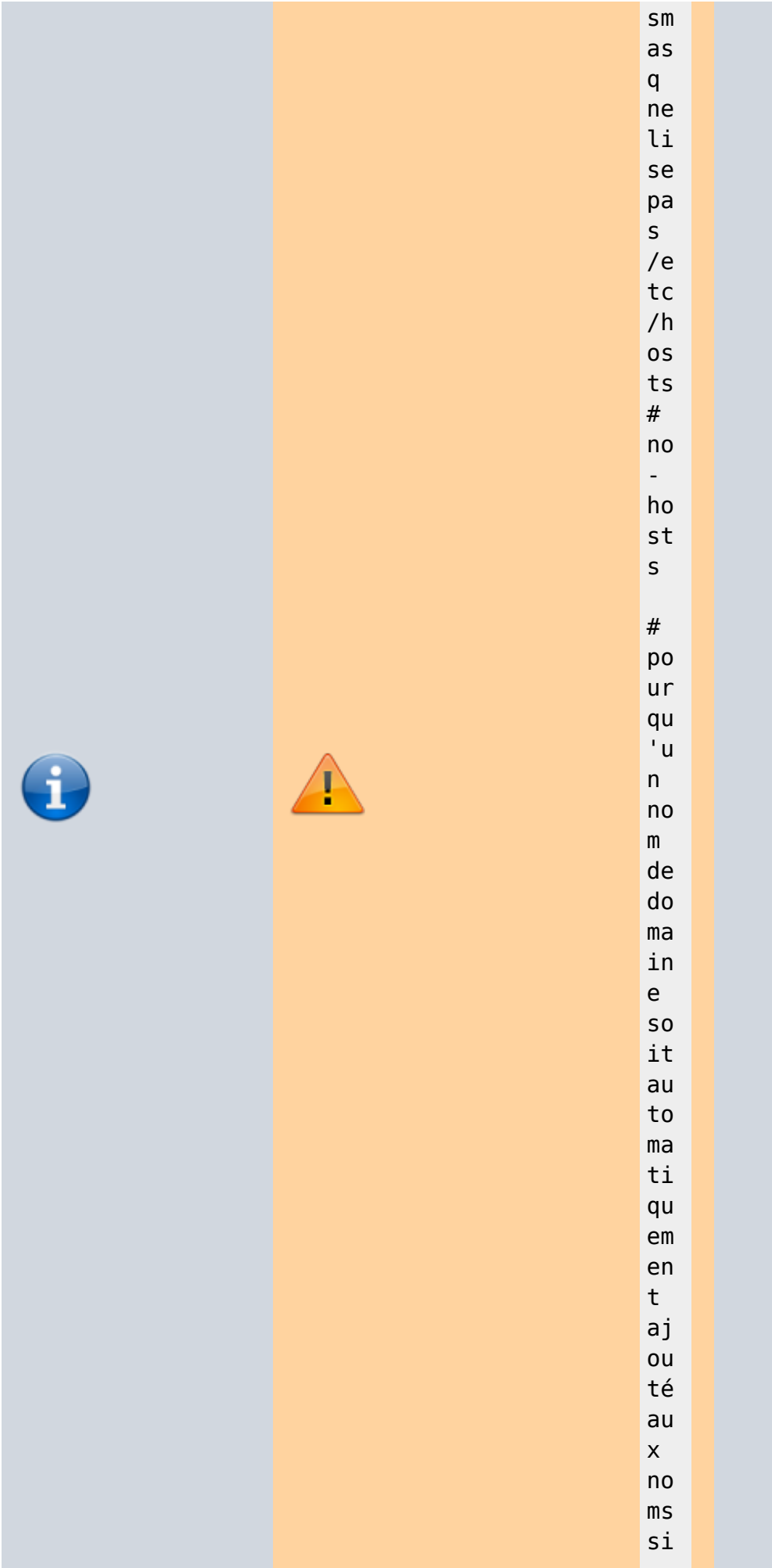
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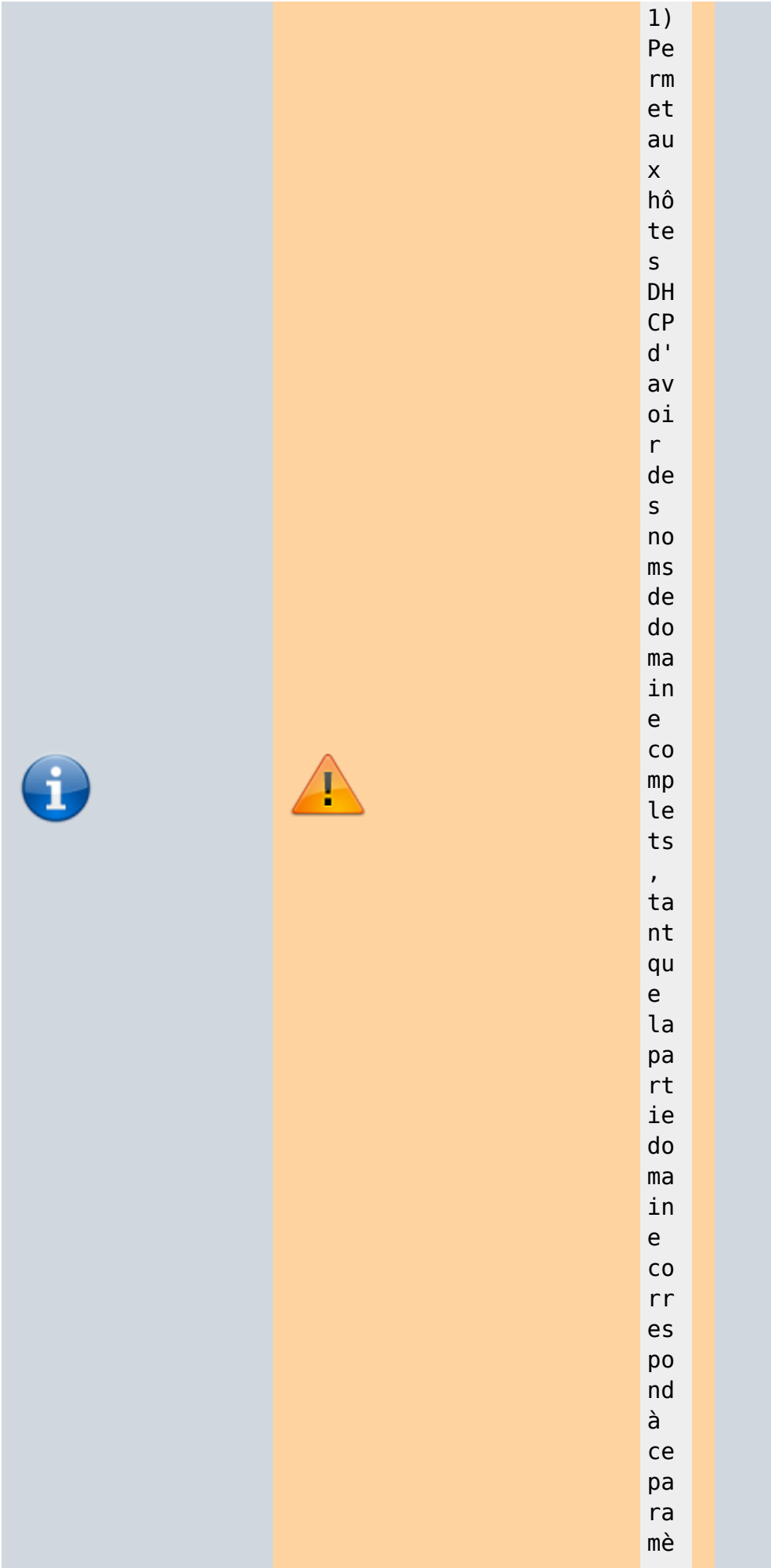
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The diagram consists of a vertical bar divided into three sections. The left section is light blue and contains a blue circular icon with a white lowercase 'i'. The middle section is light orange and contains a yellow triangular warning icon with a black exclamation mark. The right section is light grey and contains a vertical list of text: sm, as, q, ne, li, se, pa, s, /e, tc, /h, os, ts, #, no, -, ho, st, s, #, po, ur, qu, 'u, n, no, m, de, do, ma, in, e, so, it, au, to, ma, ti, qu, em, en, t, aj, ou, té, au, x, no, ms, si.



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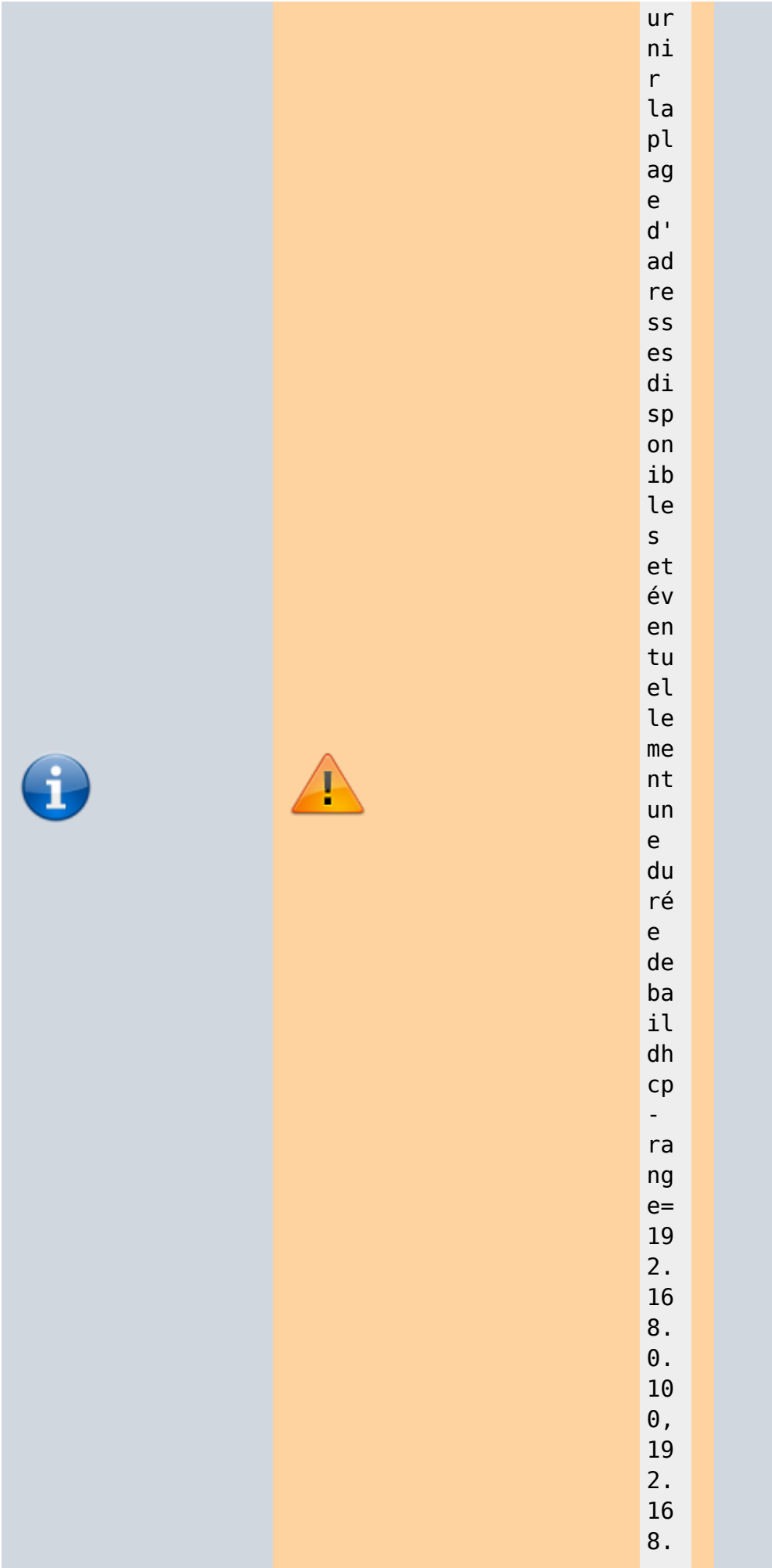



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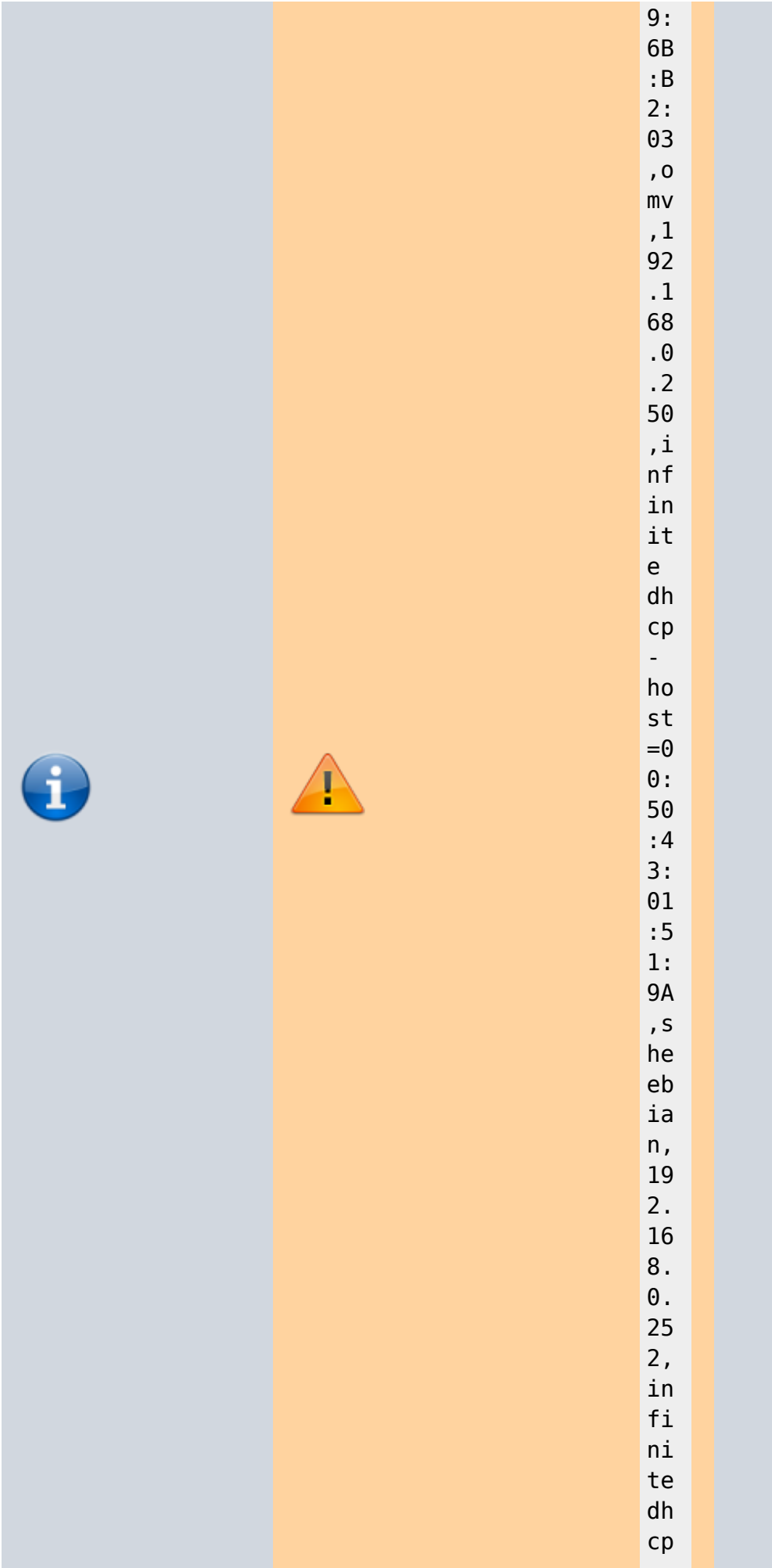
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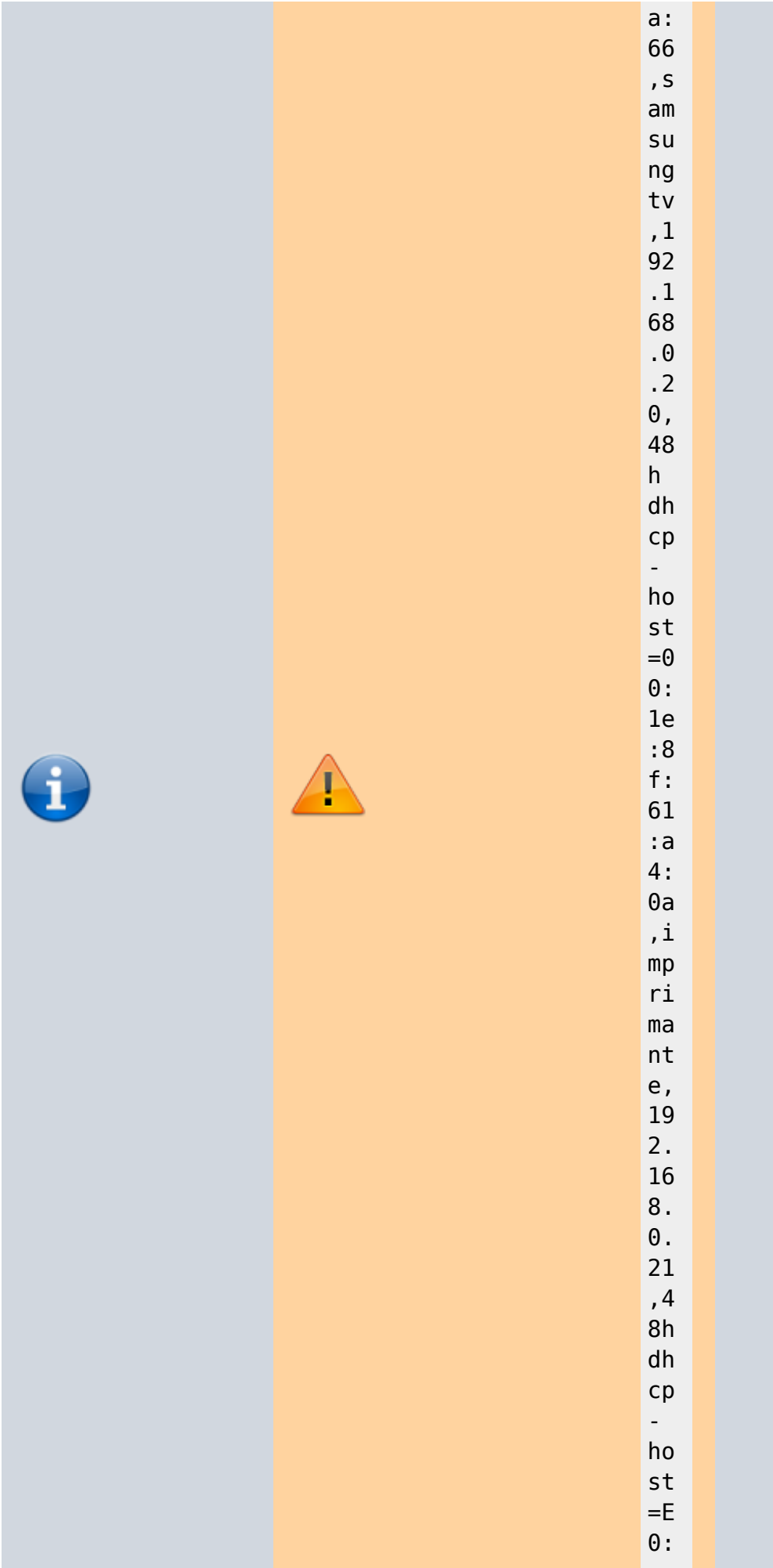
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**Fichier
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(pour ne pas
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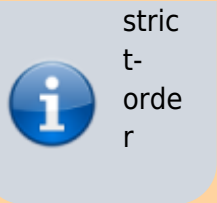


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[/etc/resolv.conf](#)

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Voici un exemple :

`/etc/resolv.dnsmasq`



```
# Free name server 212.27.40.240 name server 212.27.40.241 # OpenDNS name server 20
```



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Journalisatio n

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



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**Contenu de
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framboise**

On spécifie les
hôtes avec une
adresse IP
statique, donc

non allouée pas
dnsmasq.

[/etc/hosts](#)

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**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](#)

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



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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



t 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,192.168.1.30 # 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,infinite
```

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



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





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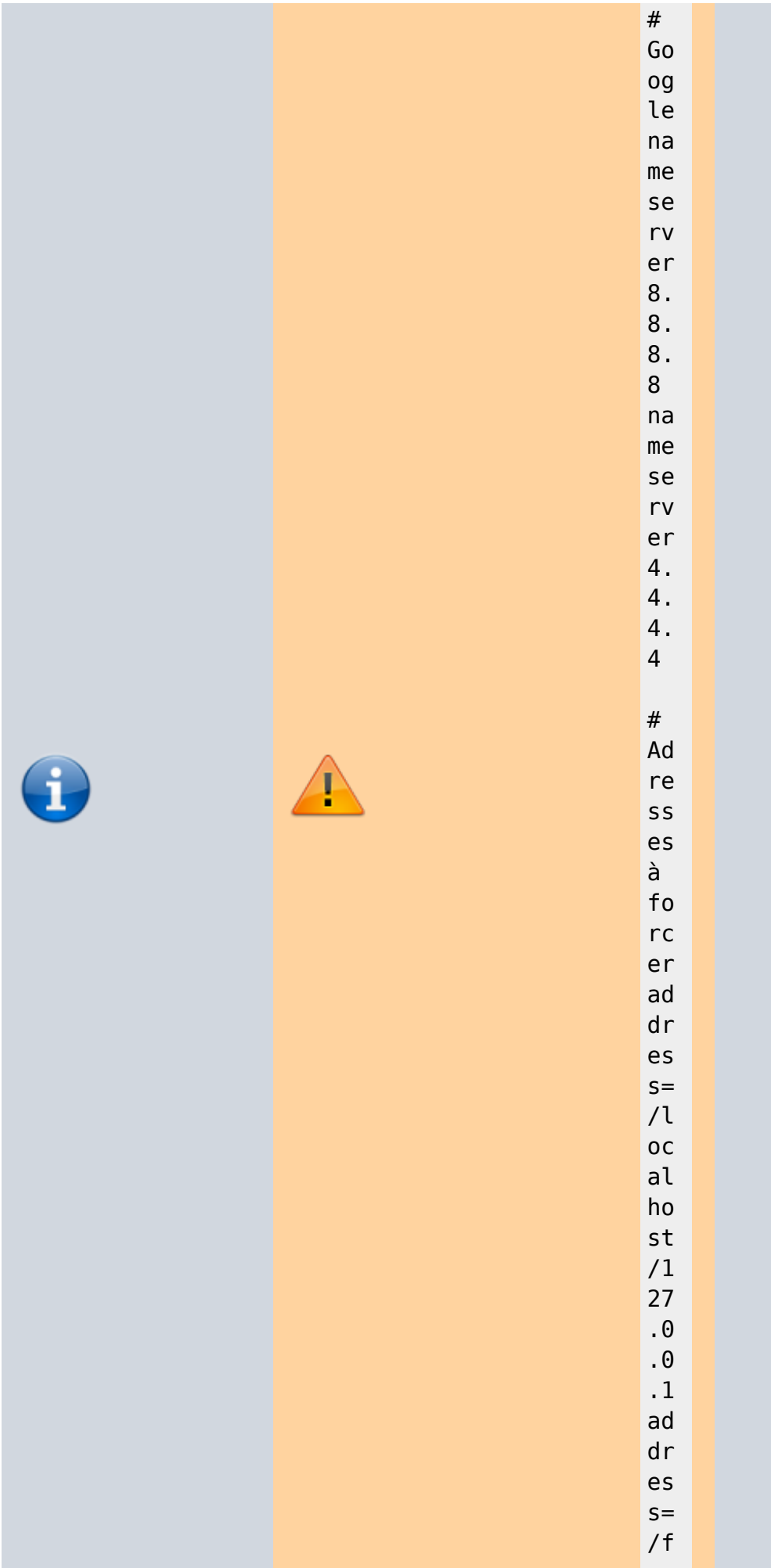


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domain-needed
Interdit à Dnsmasq de transmettre en amont les requêtes de noms



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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 domaine



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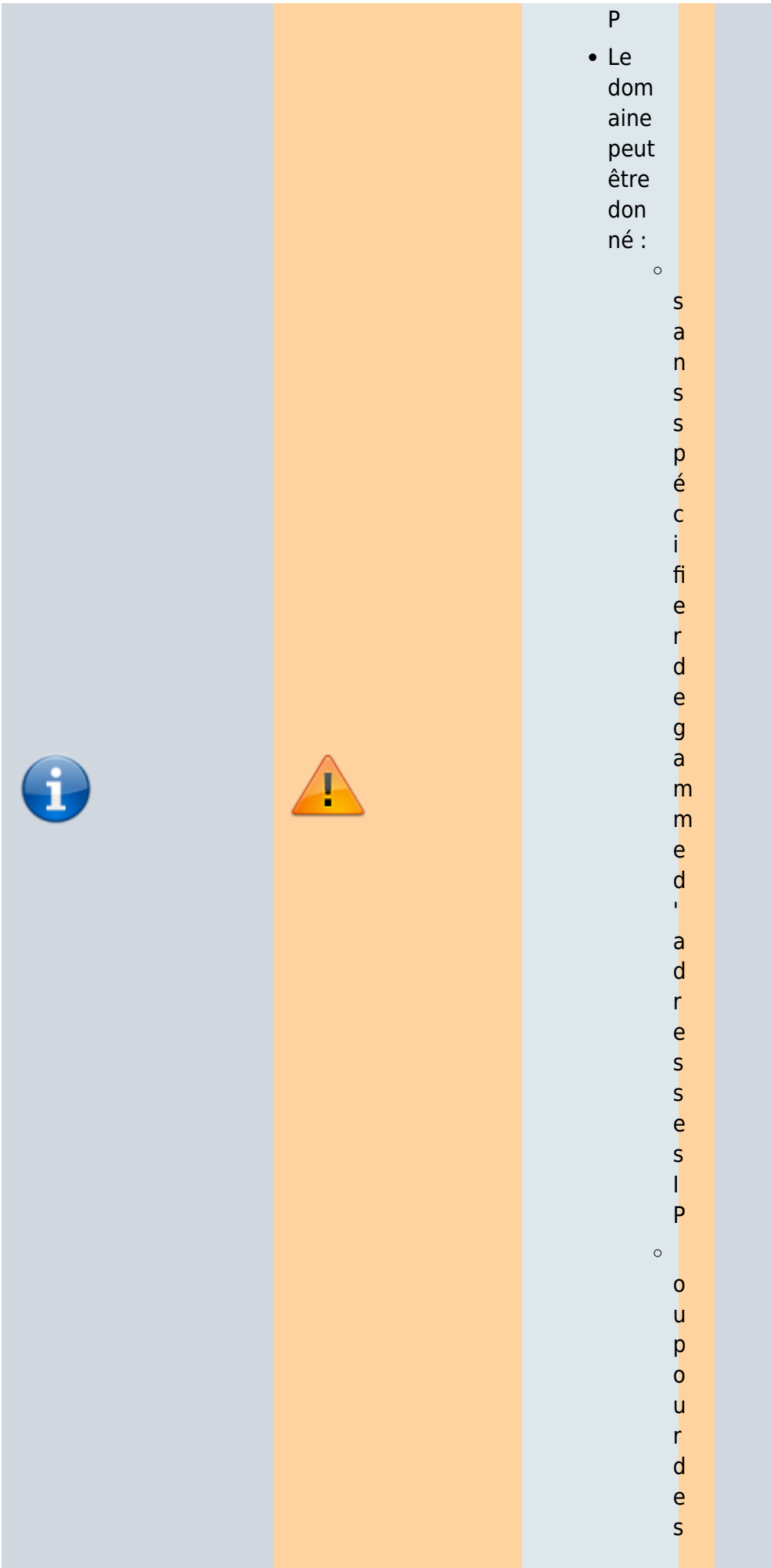
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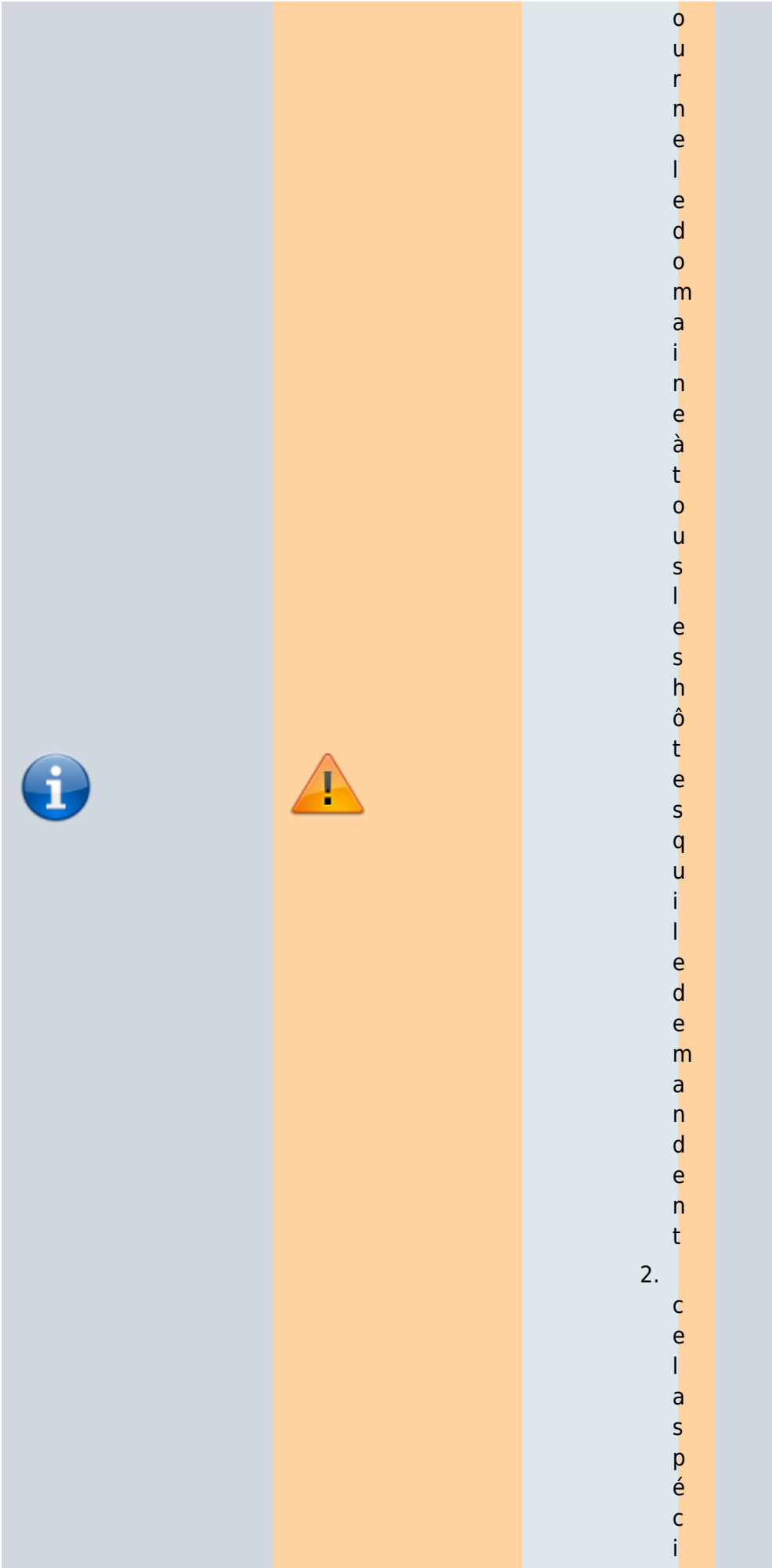
- Le domaine peut être donné :
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 - ou pour des



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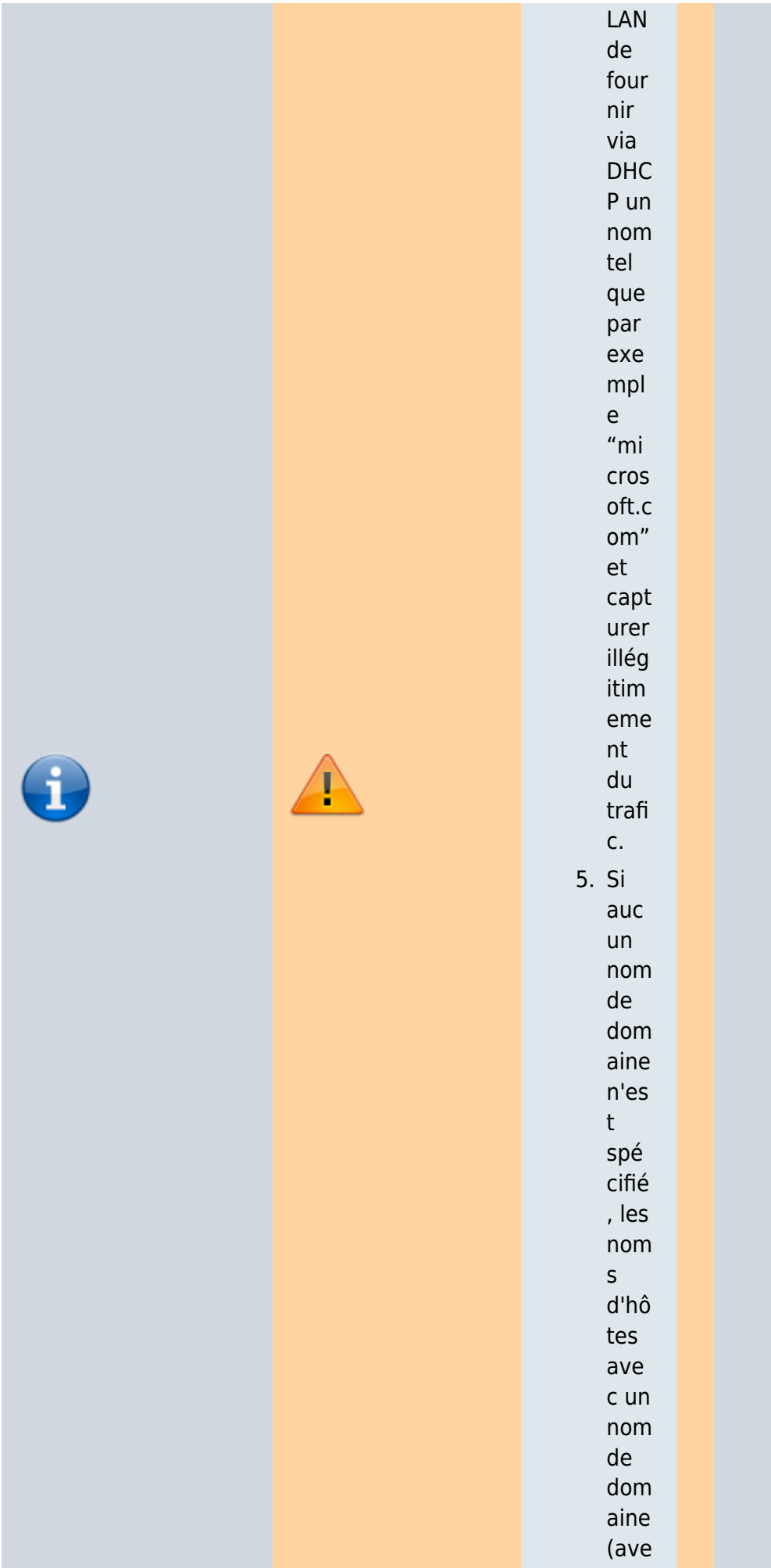
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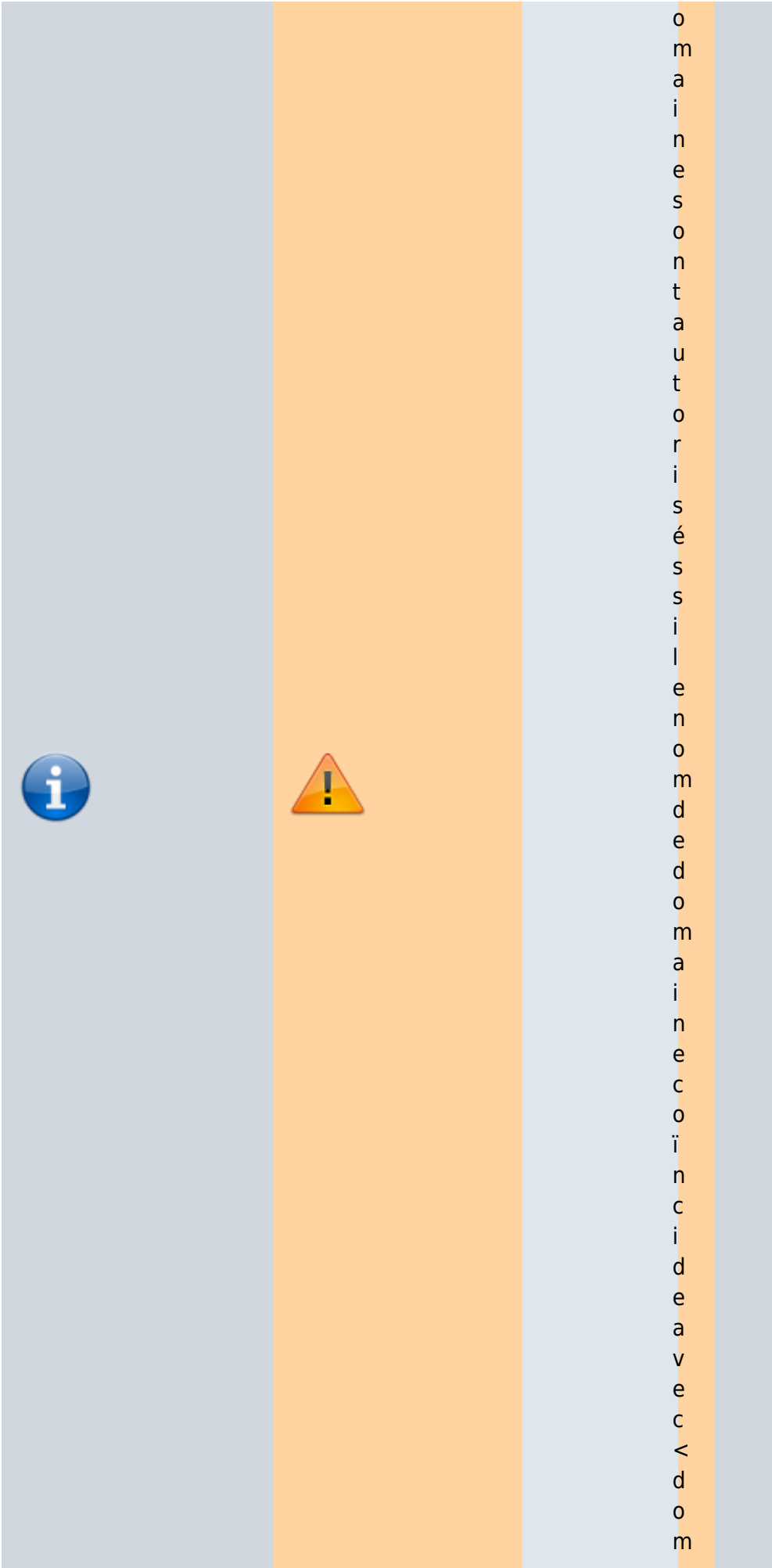


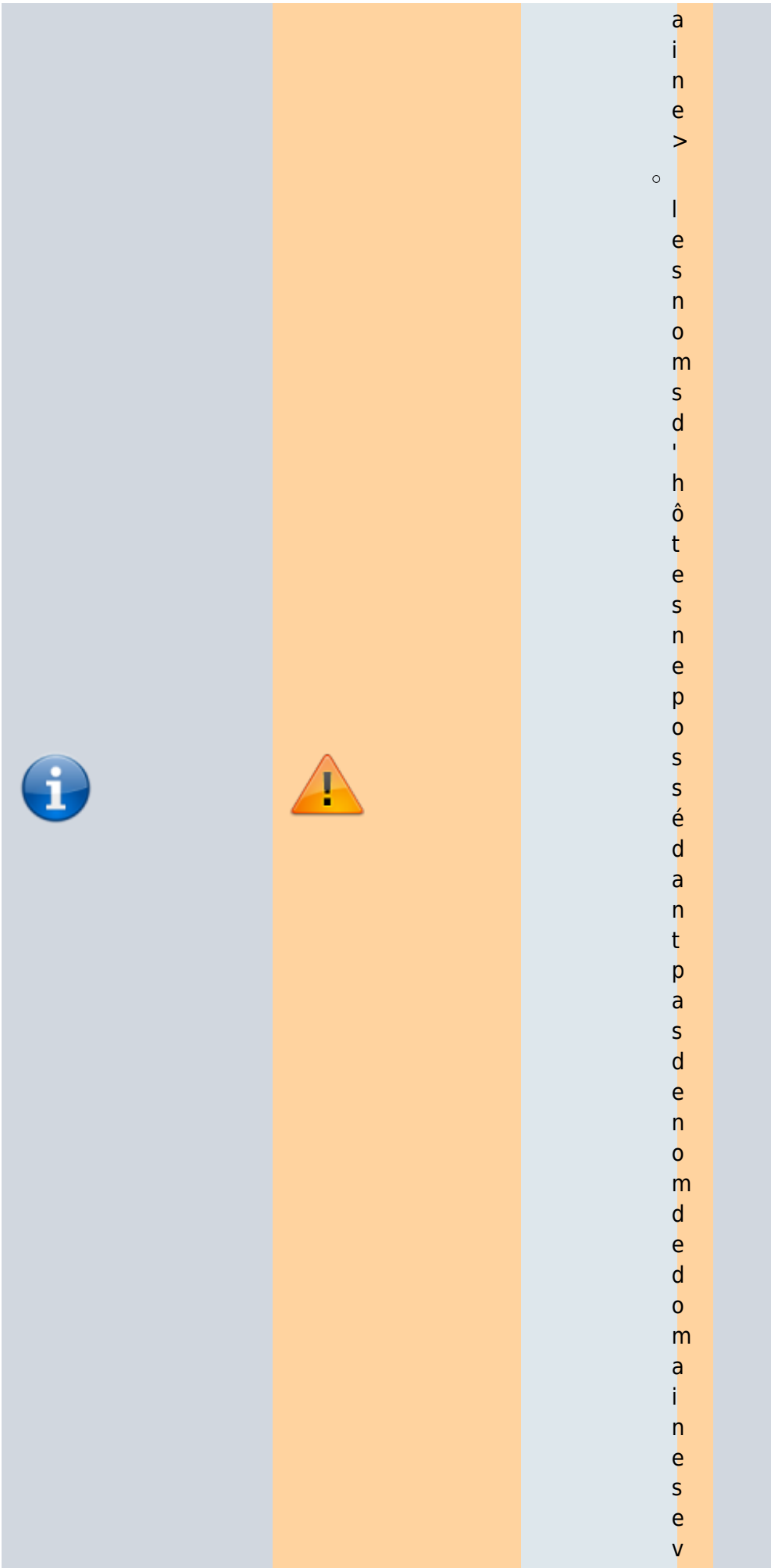


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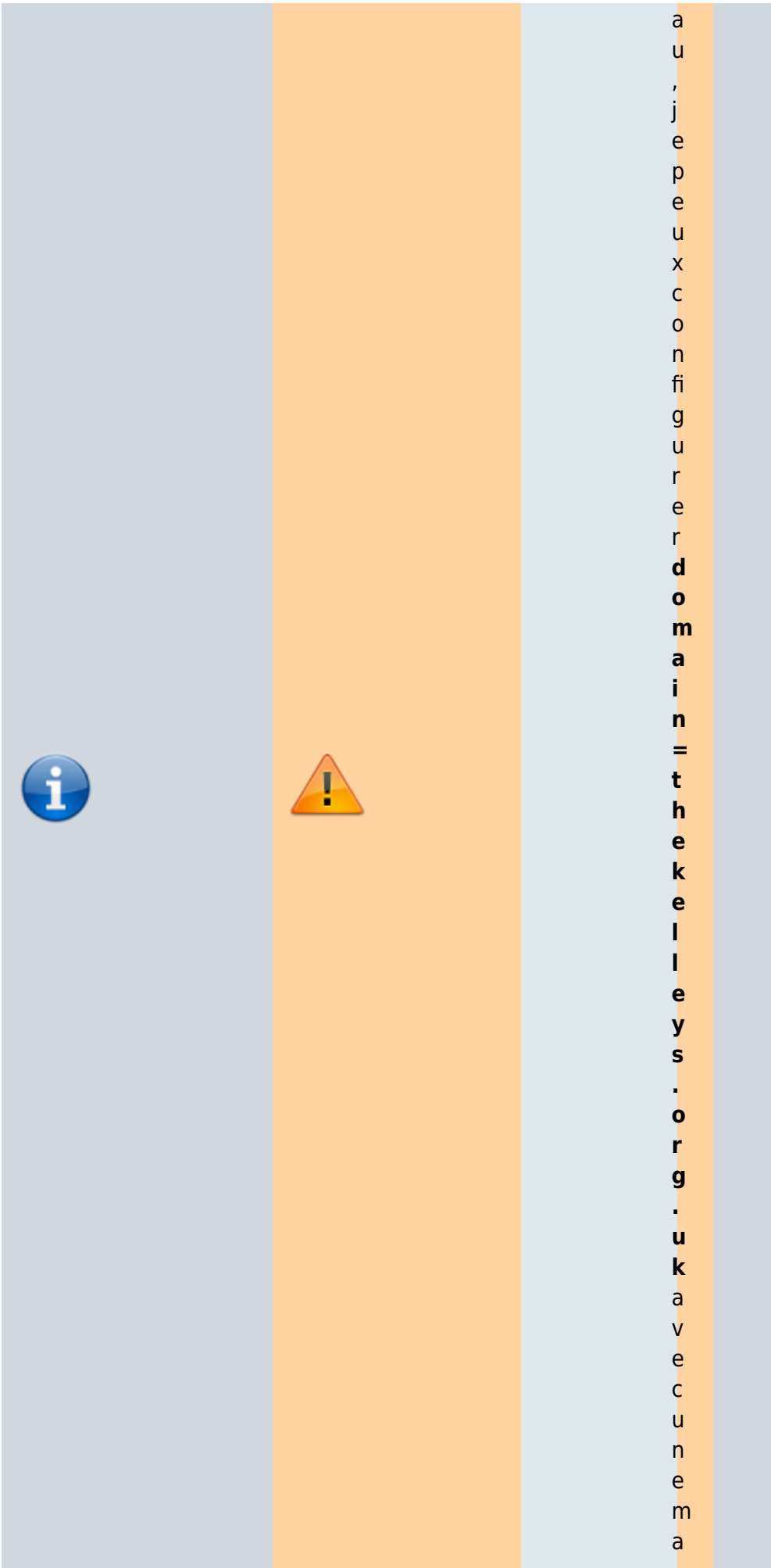
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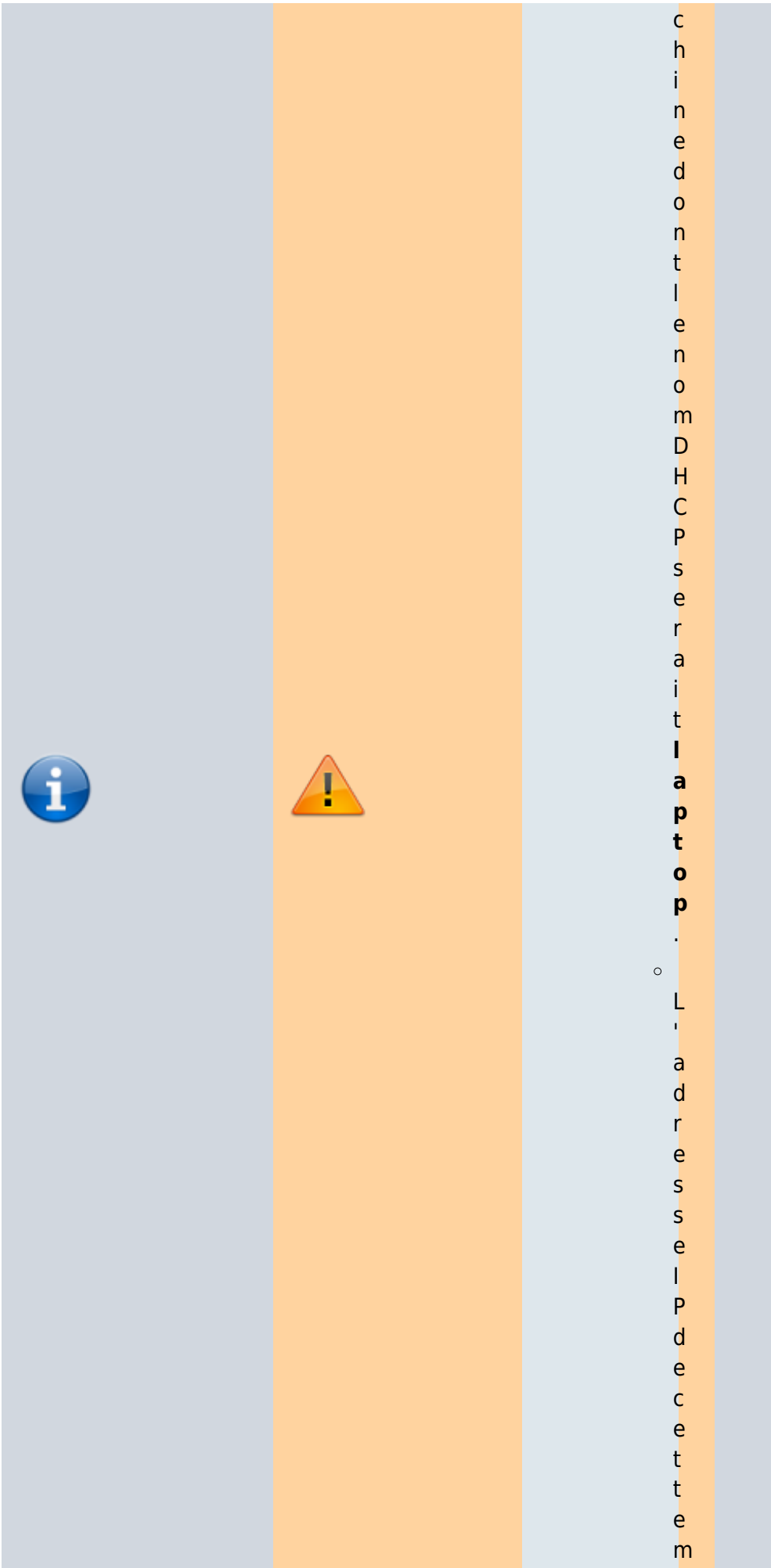




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The diagram consists of three vertical bars of different colors: a light blue bar on the left, an orange bar in the center, and another light blue bar on the right. The orange bar contains a yellow warning triangle with a black exclamation mark. The left light blue bar contains a blue circular icon with a white lowercase letter 'i'. The right light blue bar contains a vertical list of text items, including a small circle at the top, followed by the words 'orienter', 'ajouter', 'les', 'suffi', 'xe', '<', 'domaine', '>', a small circle, 'Par', 'exemple', 'sur', 'mon', 'rés', 'e'.



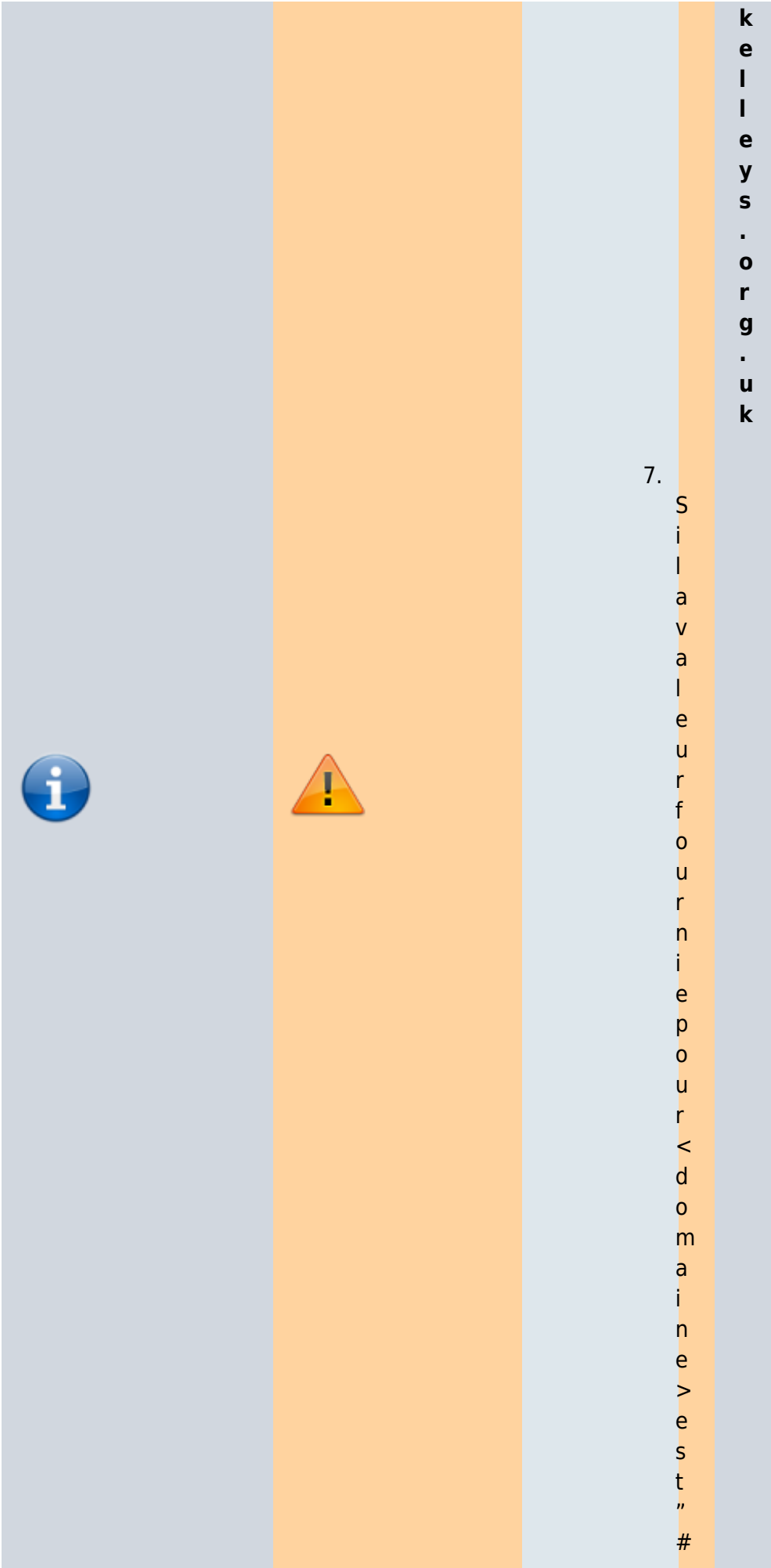
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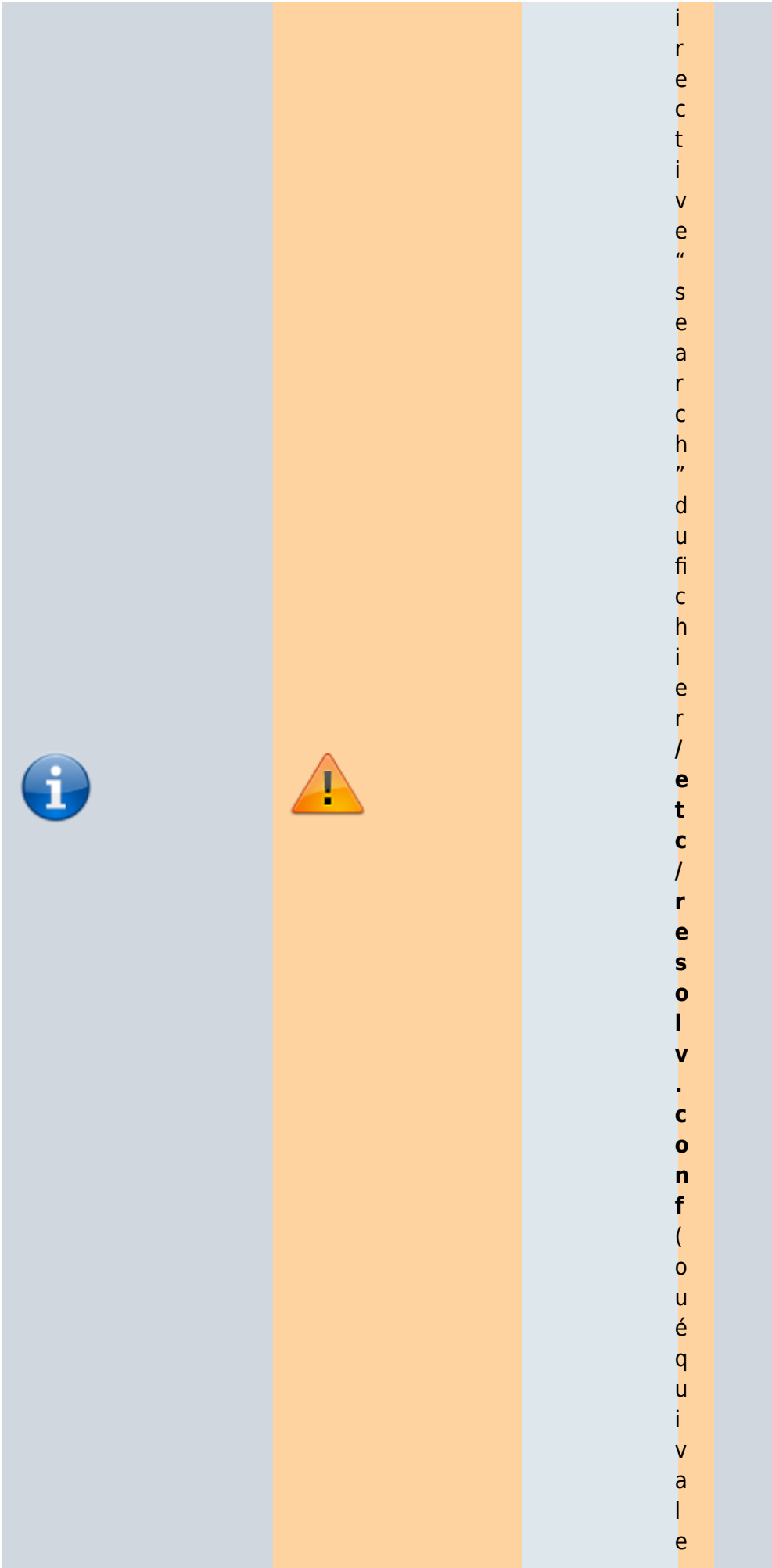
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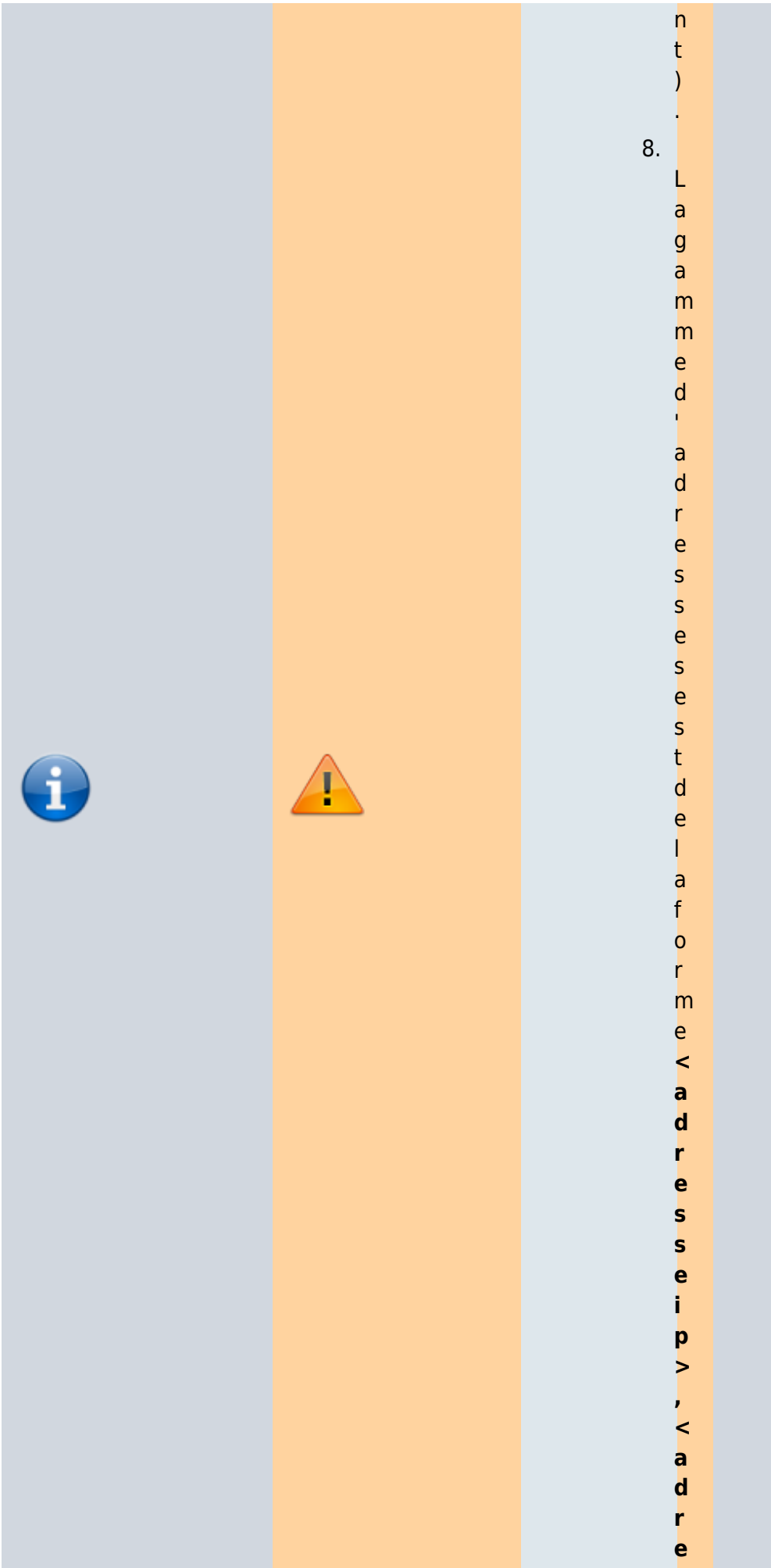
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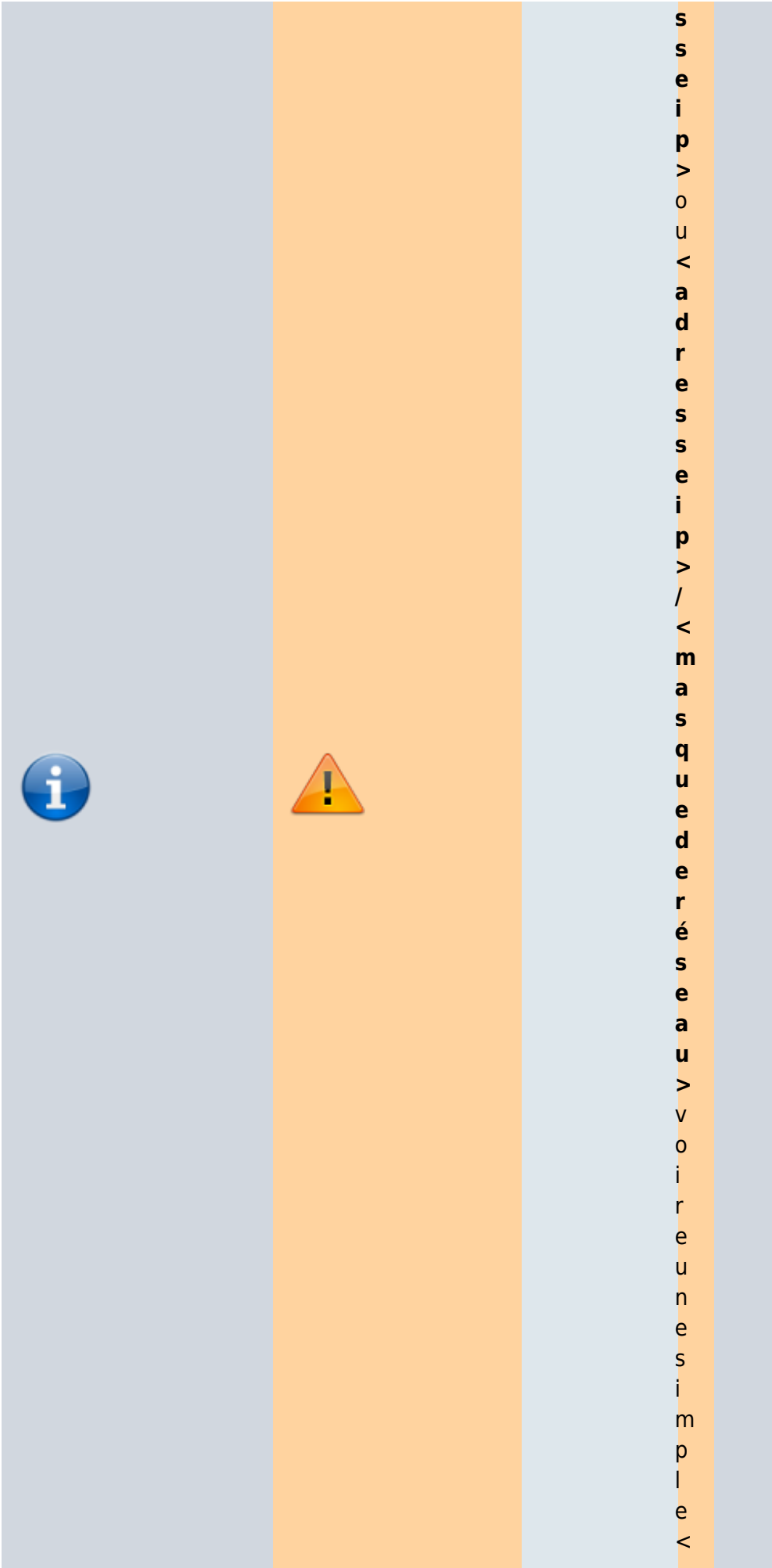


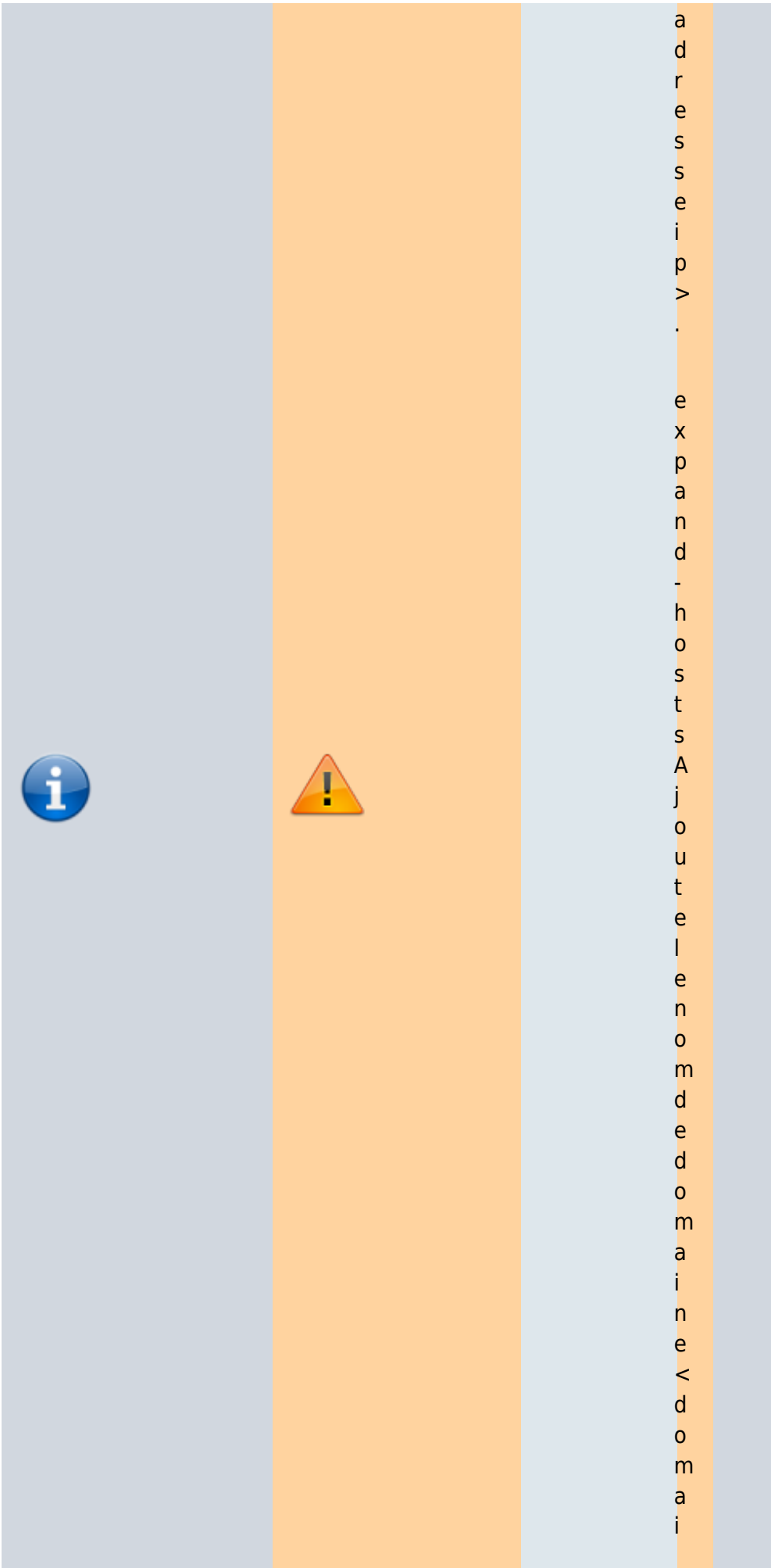




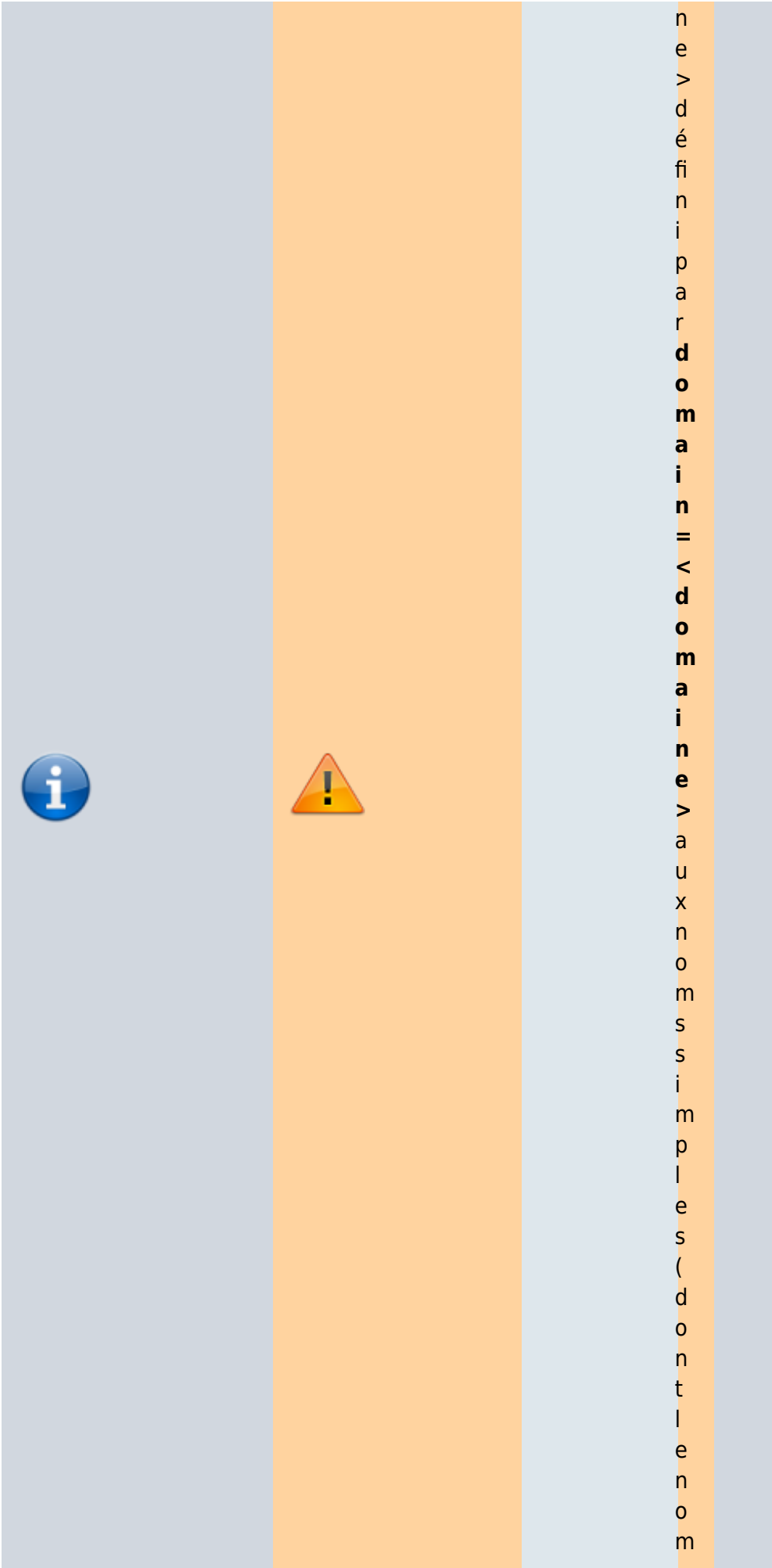




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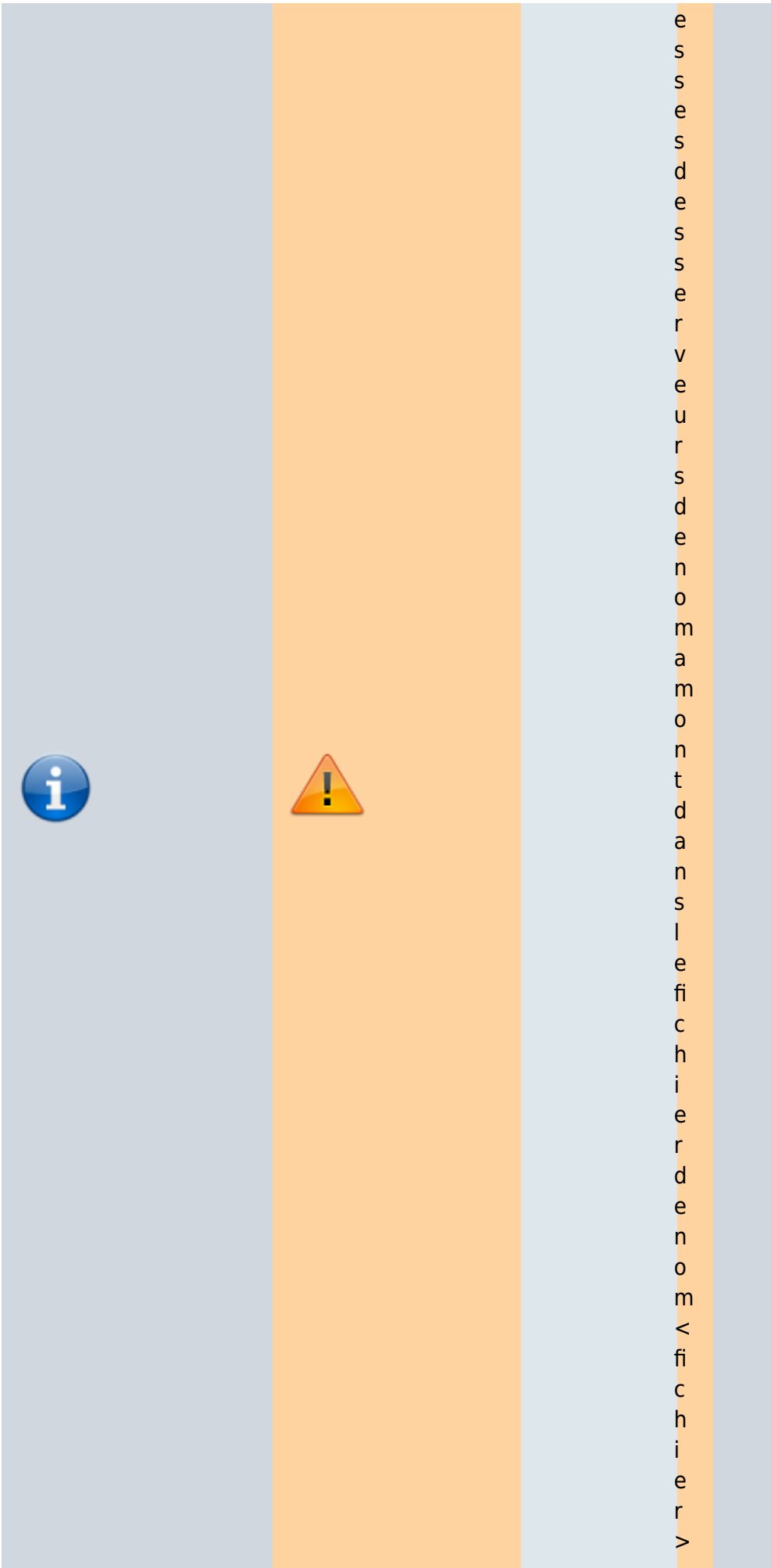
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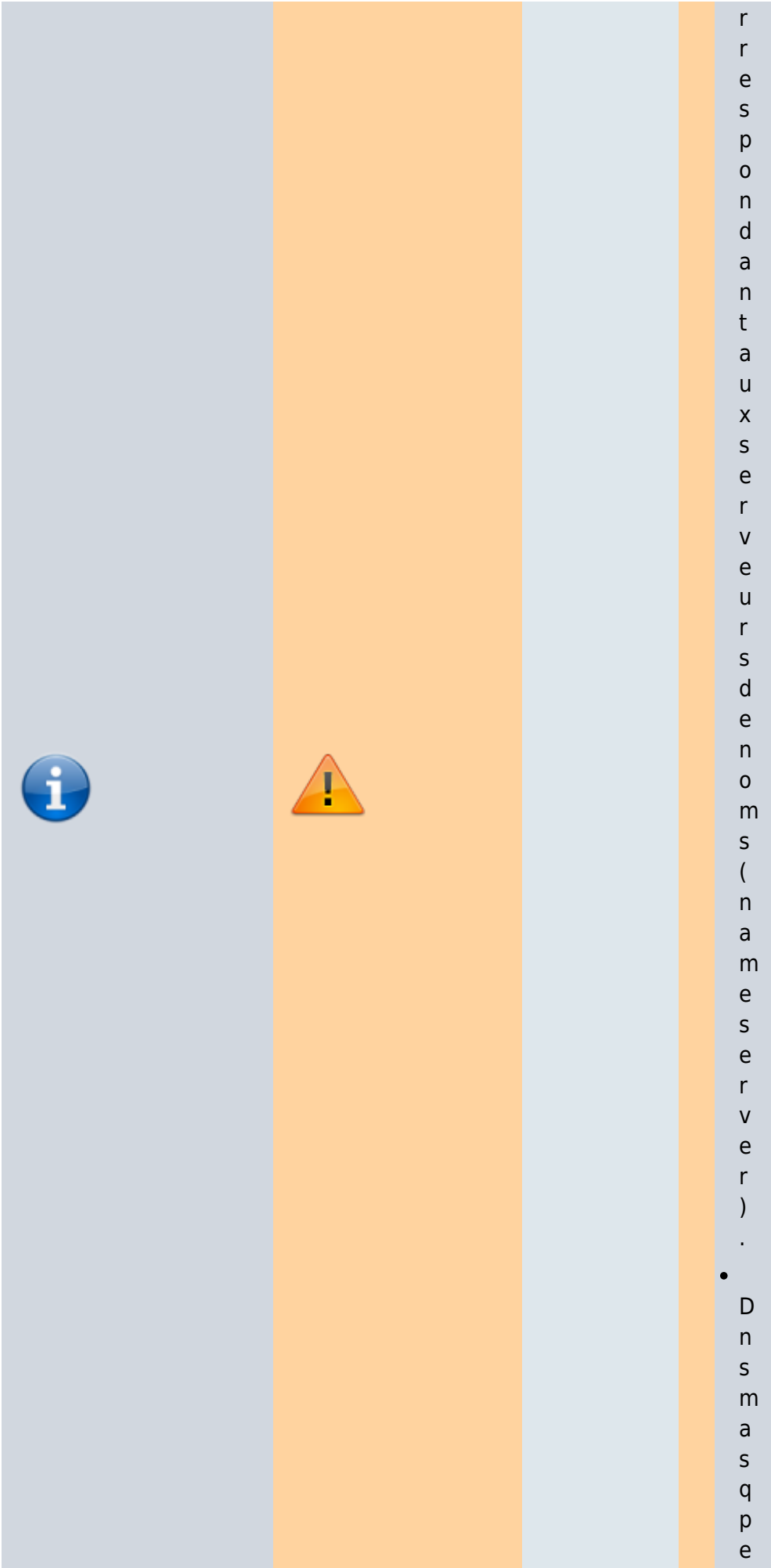


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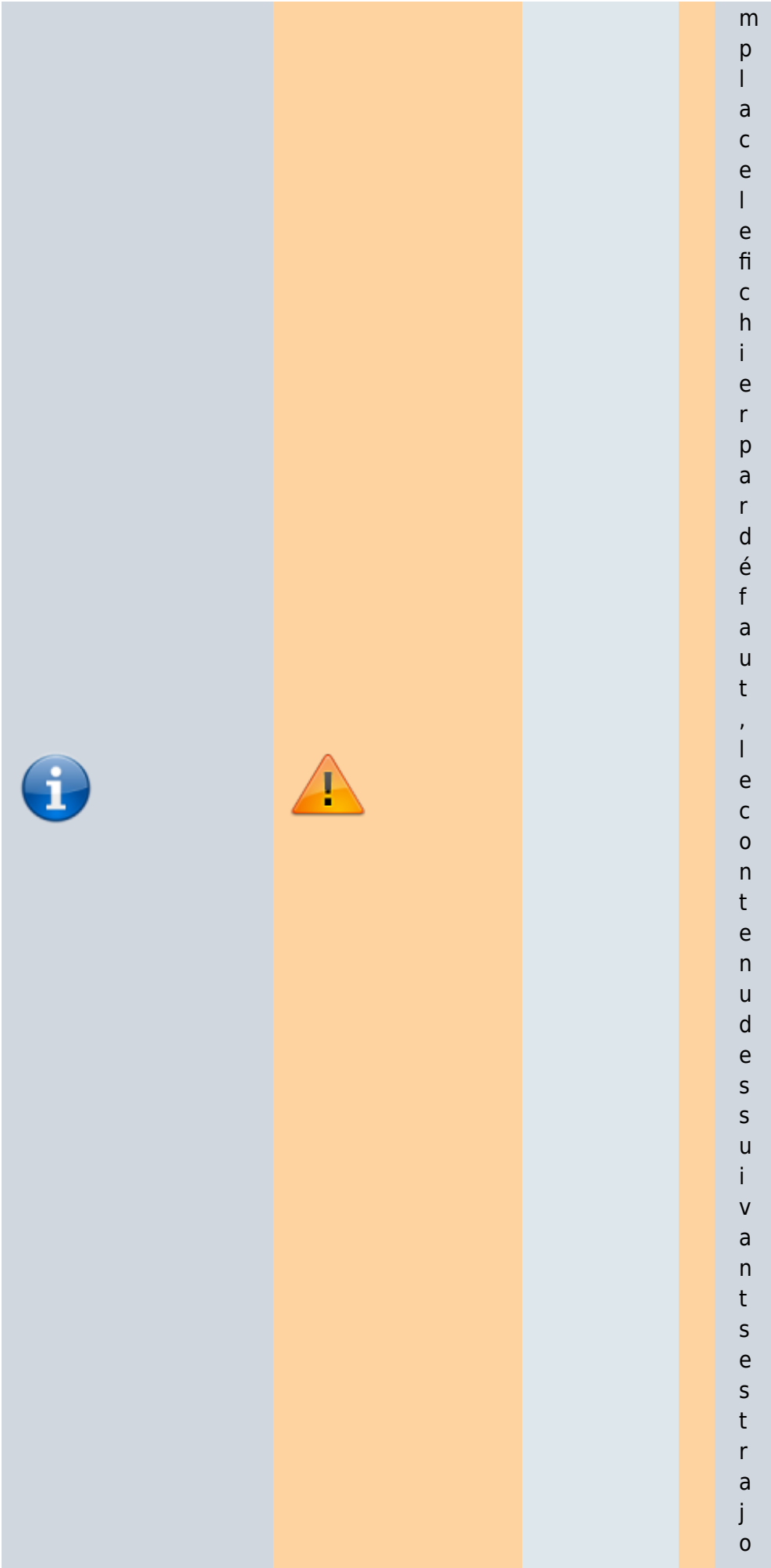
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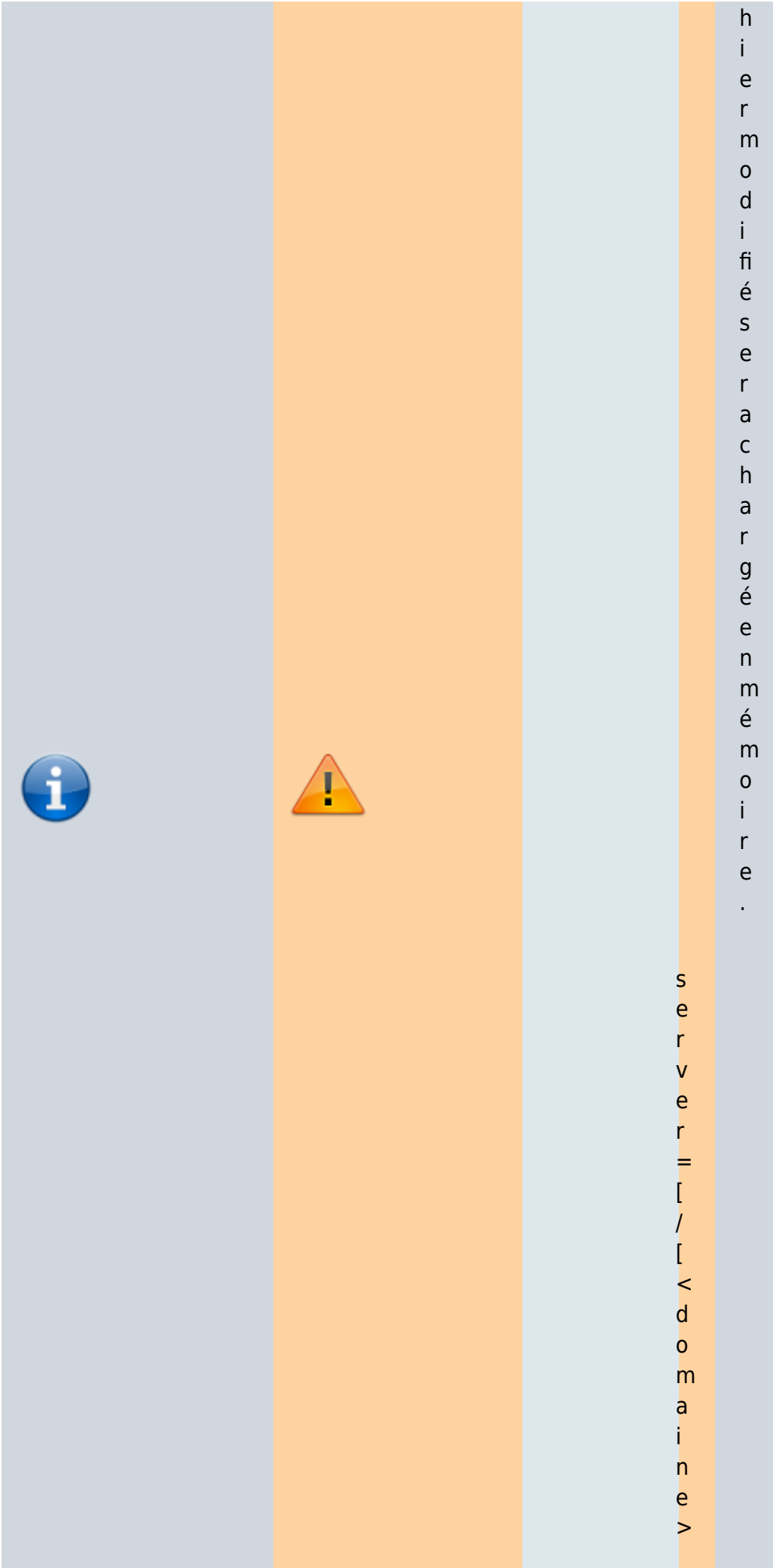
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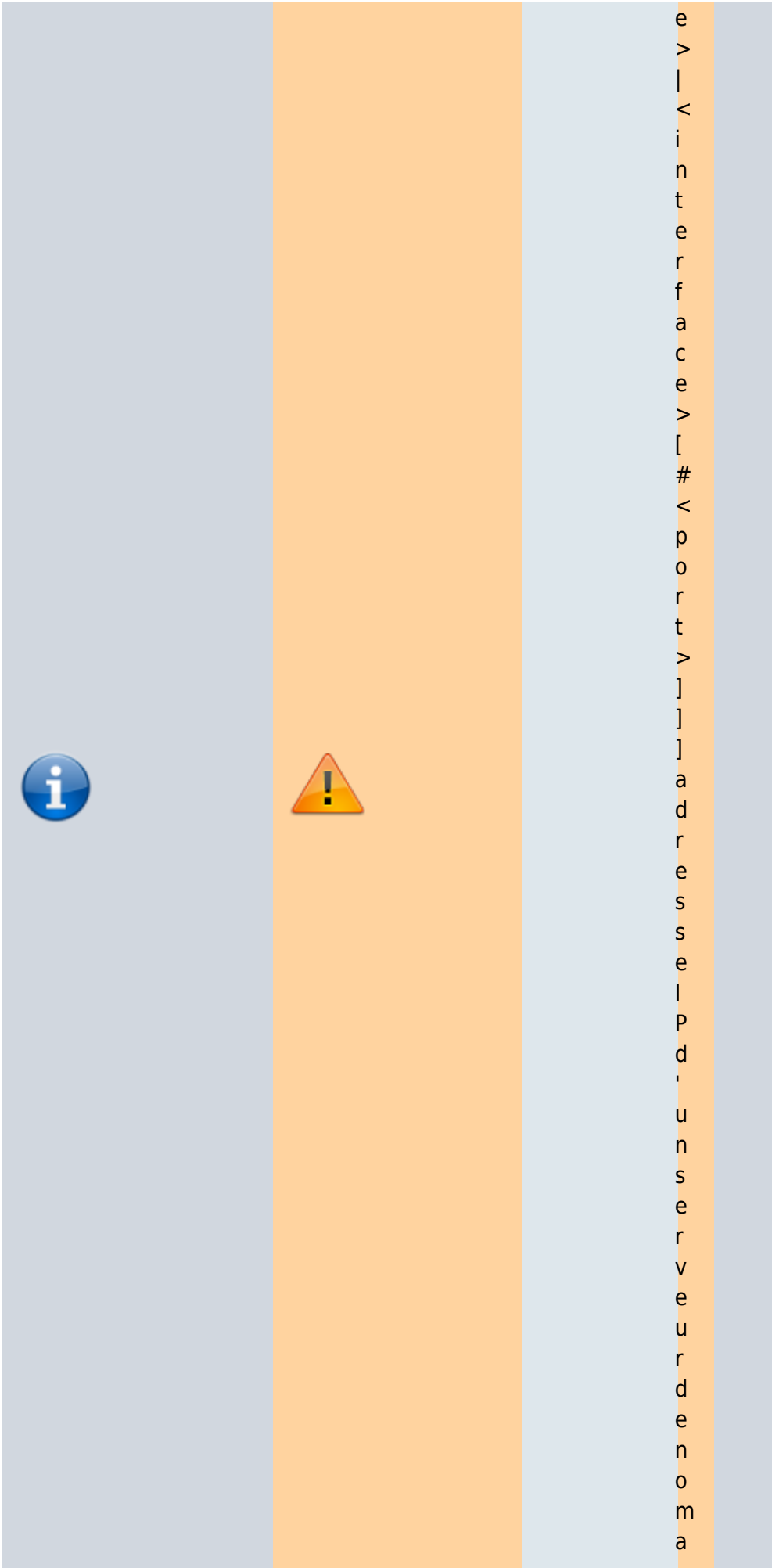
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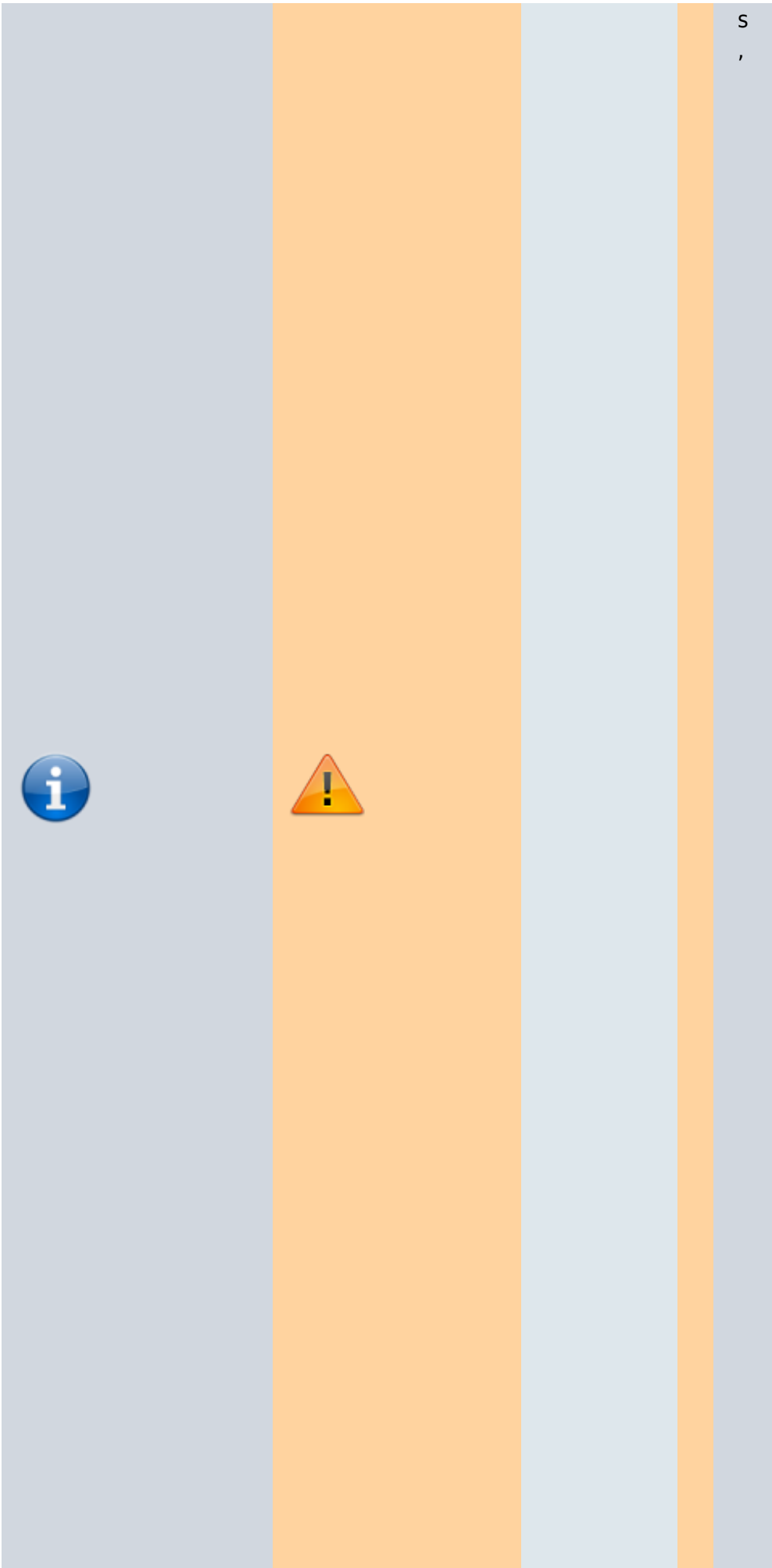
The diagram consists of three vertical bars. The left bar is light blue and contains a blue circular icon with a white lowercase letter 'i'. The middle bar is orange and contains a yellow triangular warning icon with a black exclamation mark. The right bar is light blue and contains vertical text: ']', '/', '[', 'd', 'o', 'm', 'a', 'i', 'n', 'e', '/', ']', '[', '<', 'A', 'd', 'r', 'e', 's', 's', 'e', 'l', 'P', '>', '[', '#', '<', 'p', 'o', 'r', 't', '>', ']', '[', '@', '<', 'A', 'd', 'r', 'e', 's', 's', 'e', 'l', 'P', 's', 'o', 'u', 'r', 'c'.



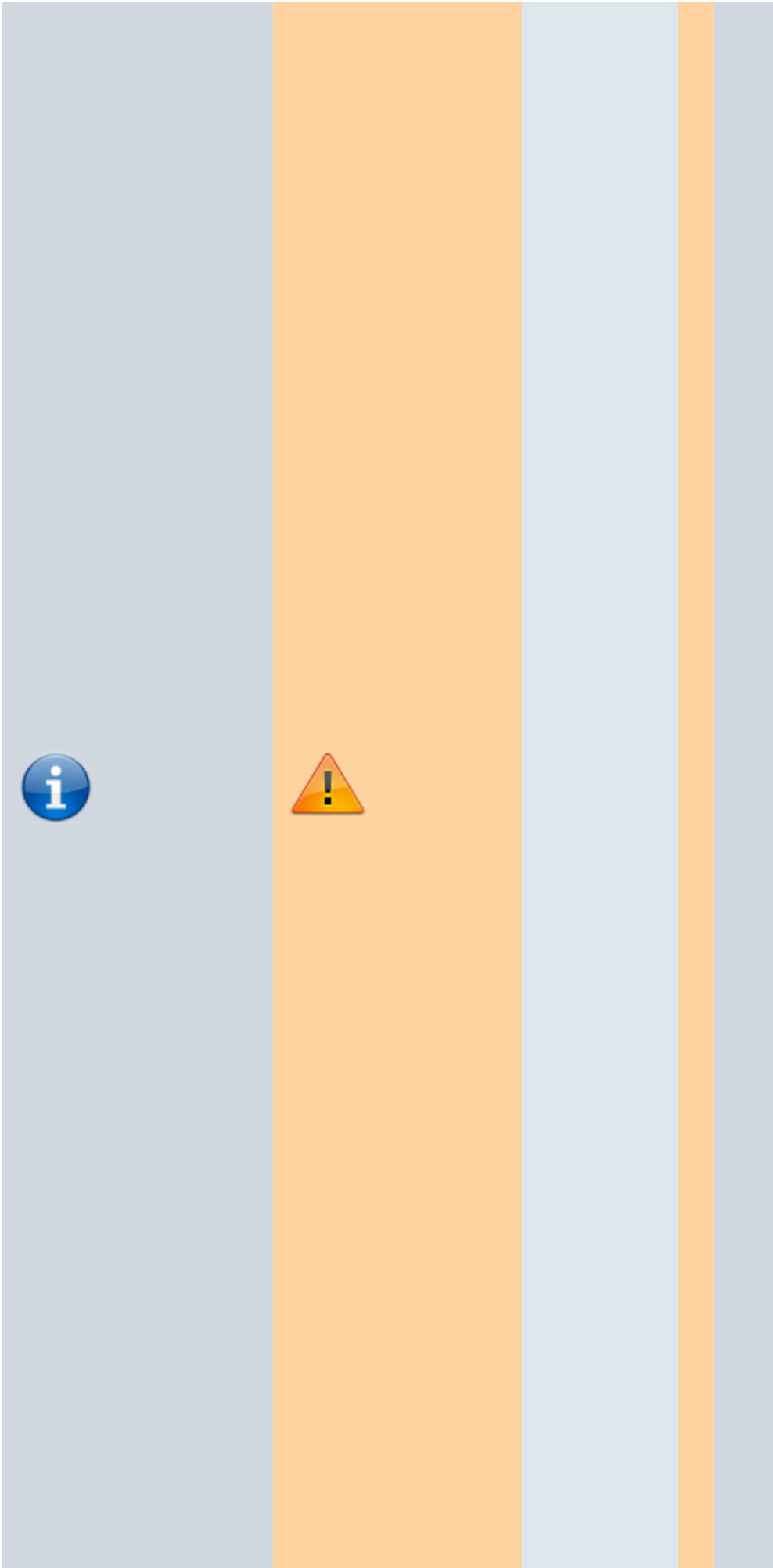
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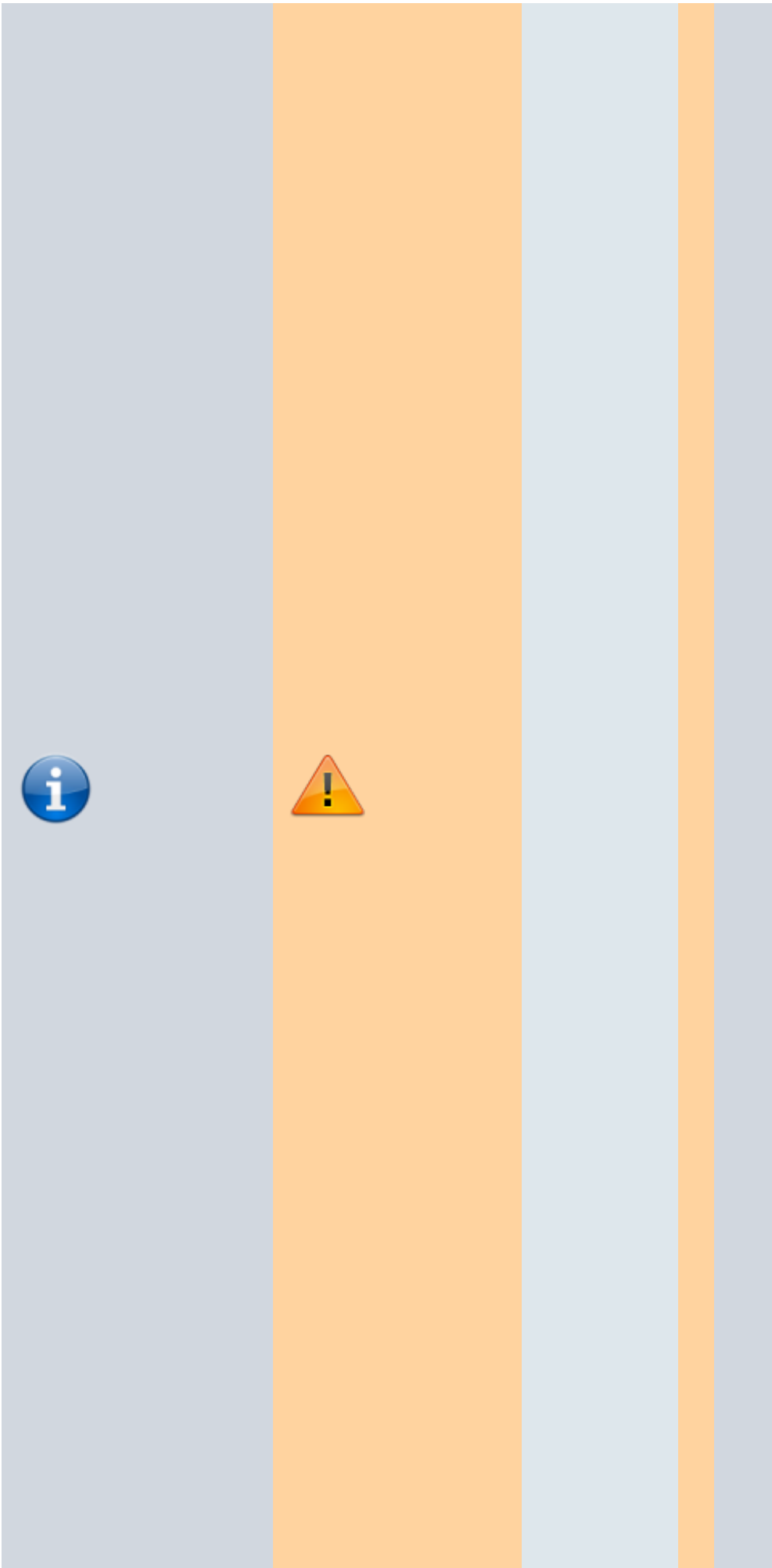
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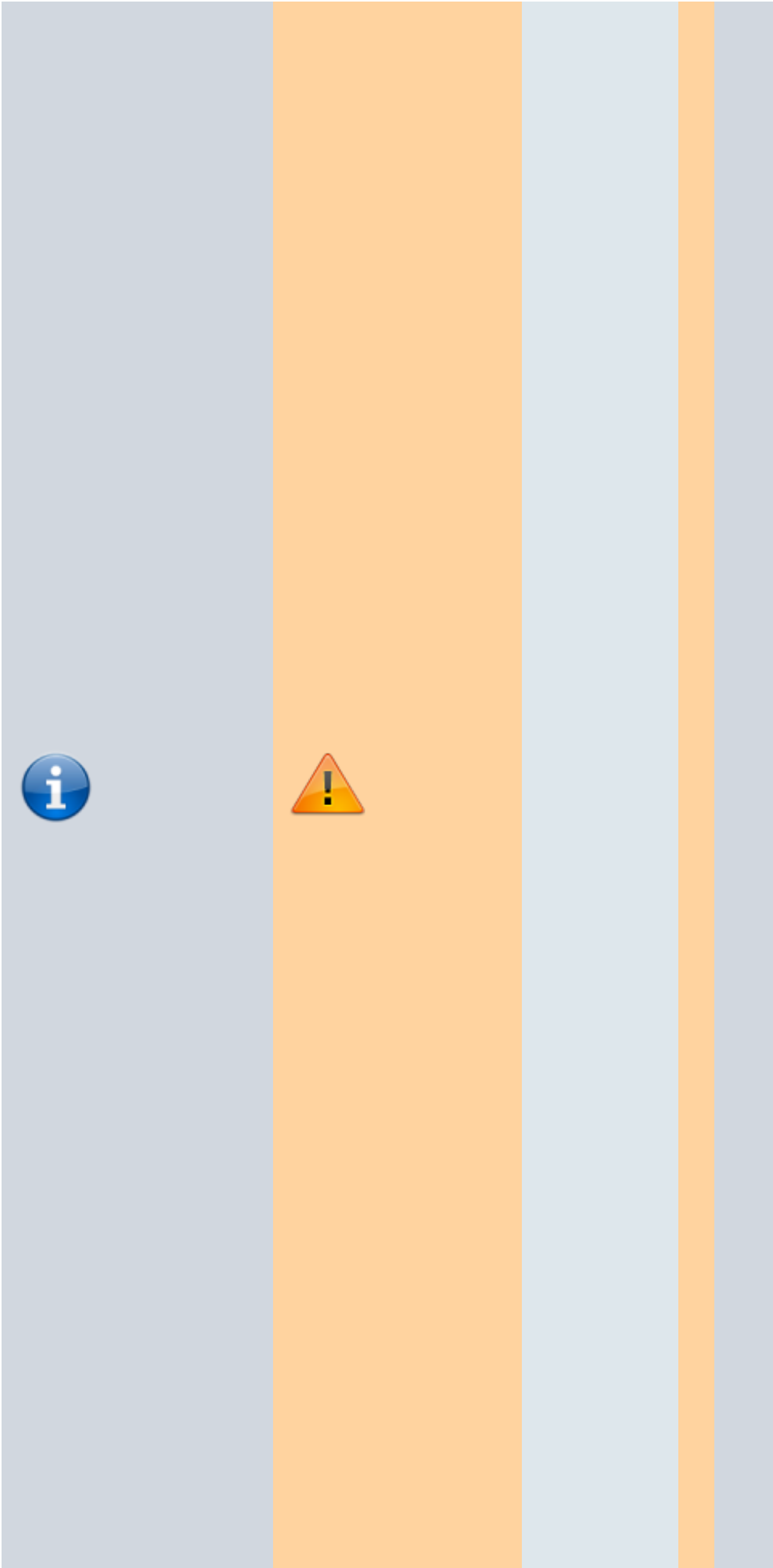
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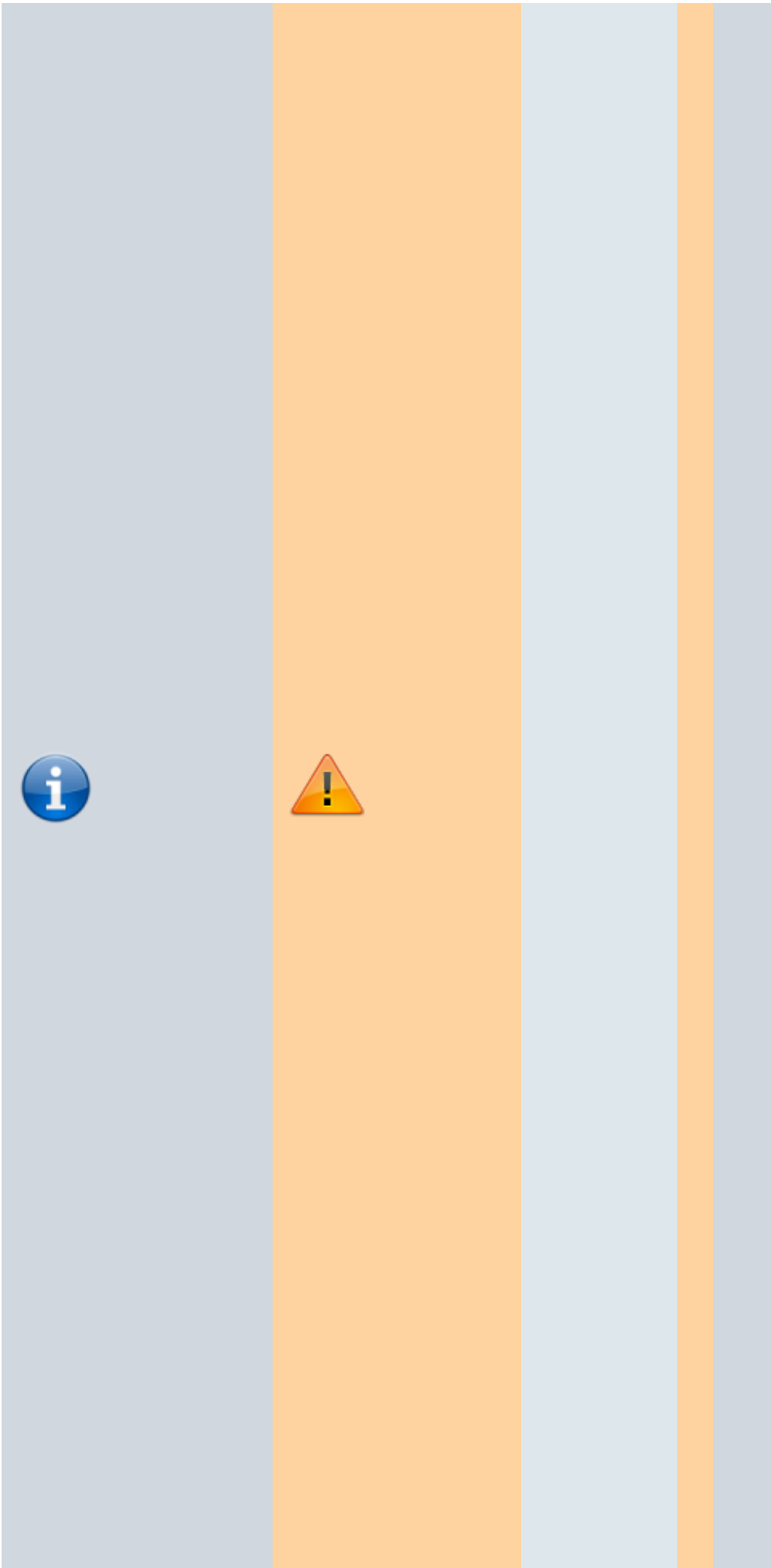
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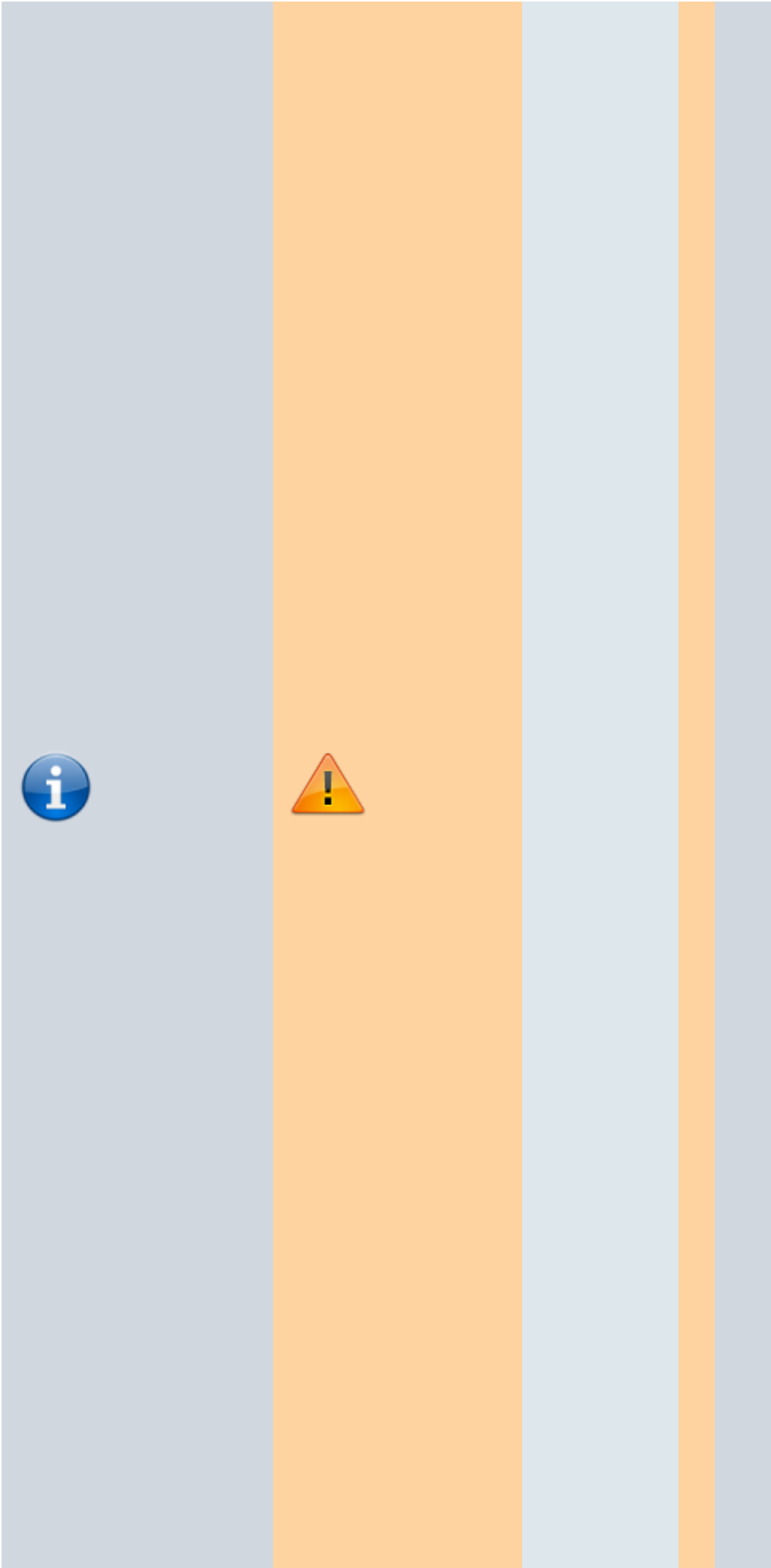
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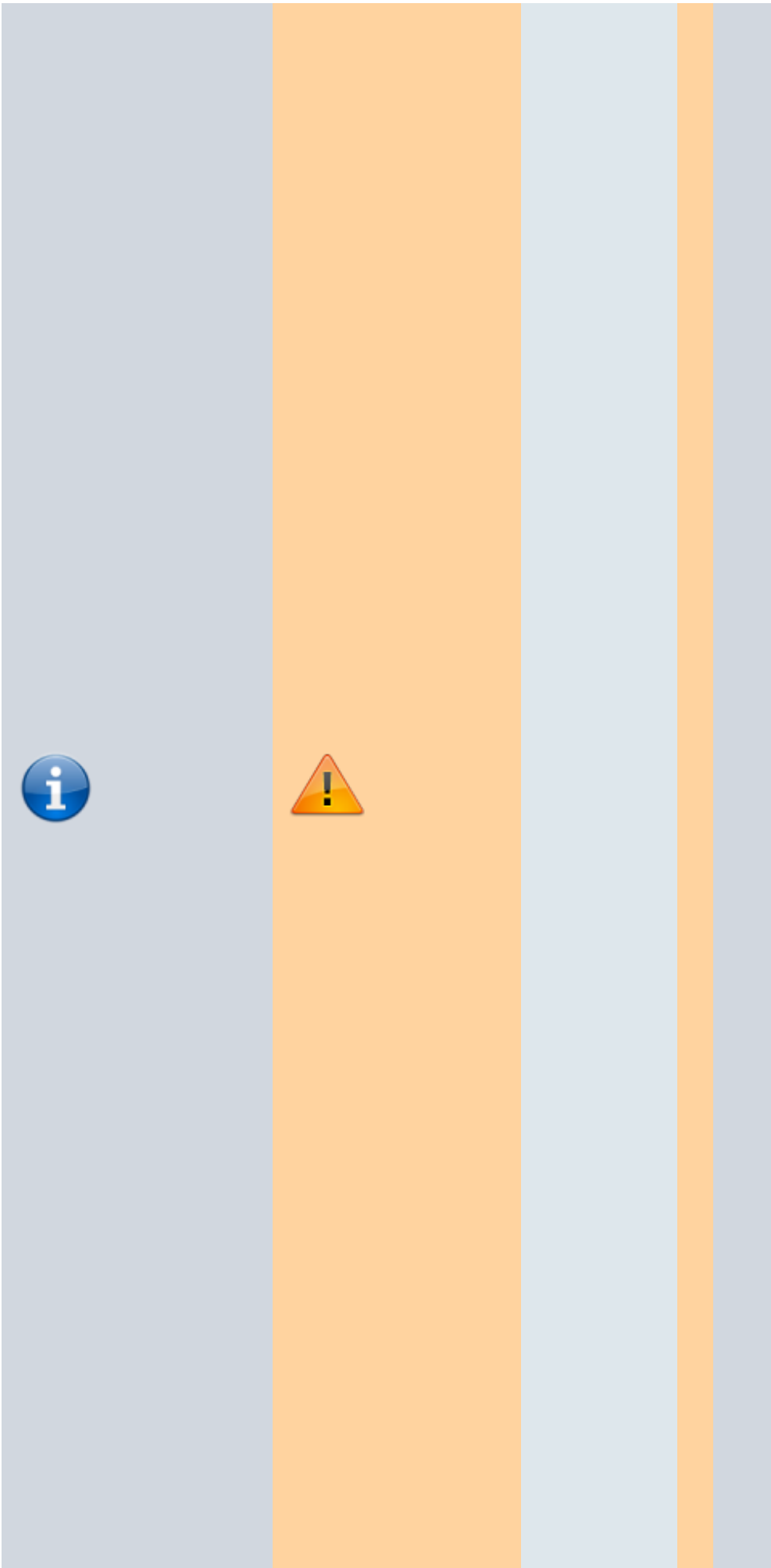


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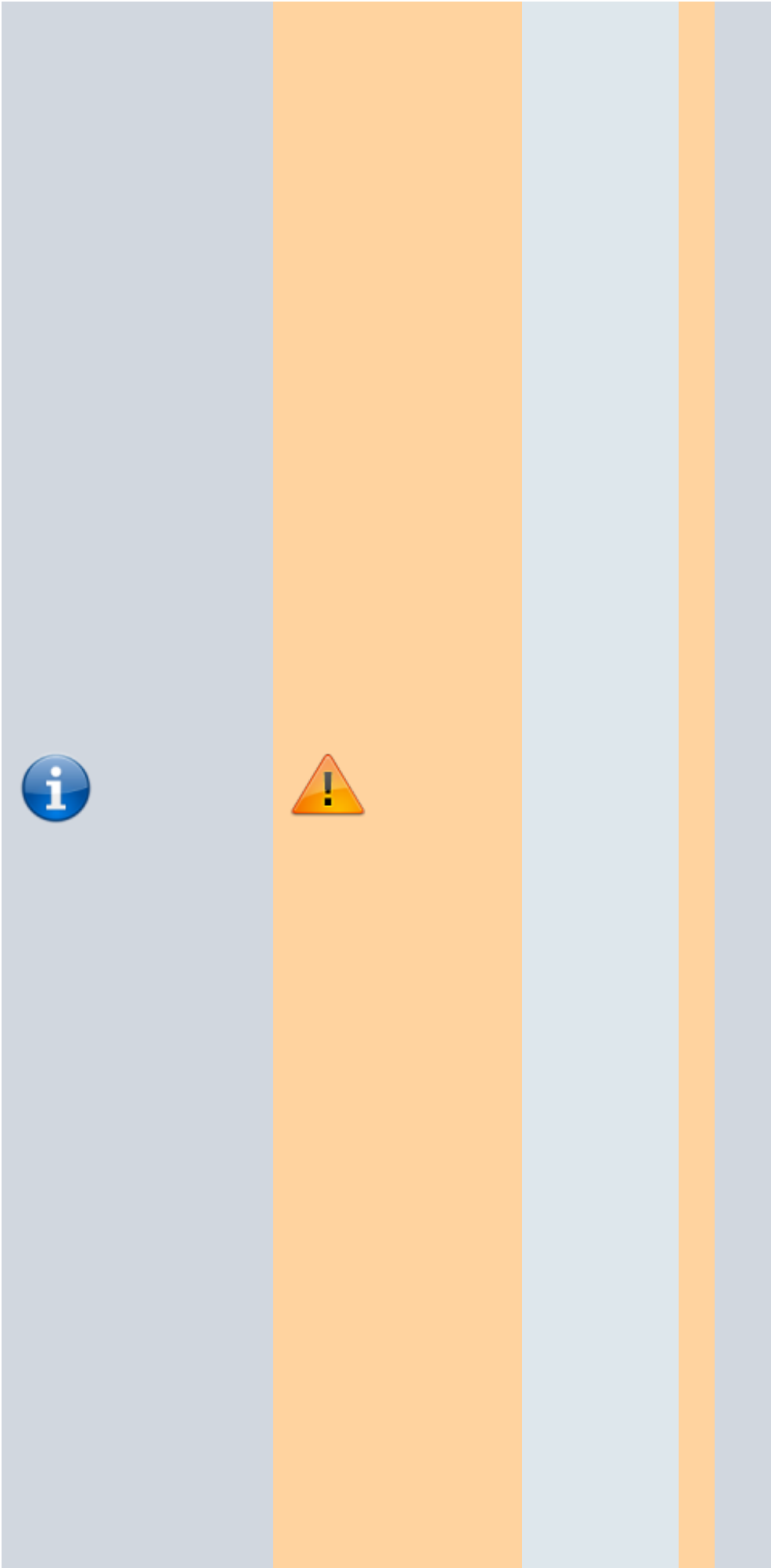


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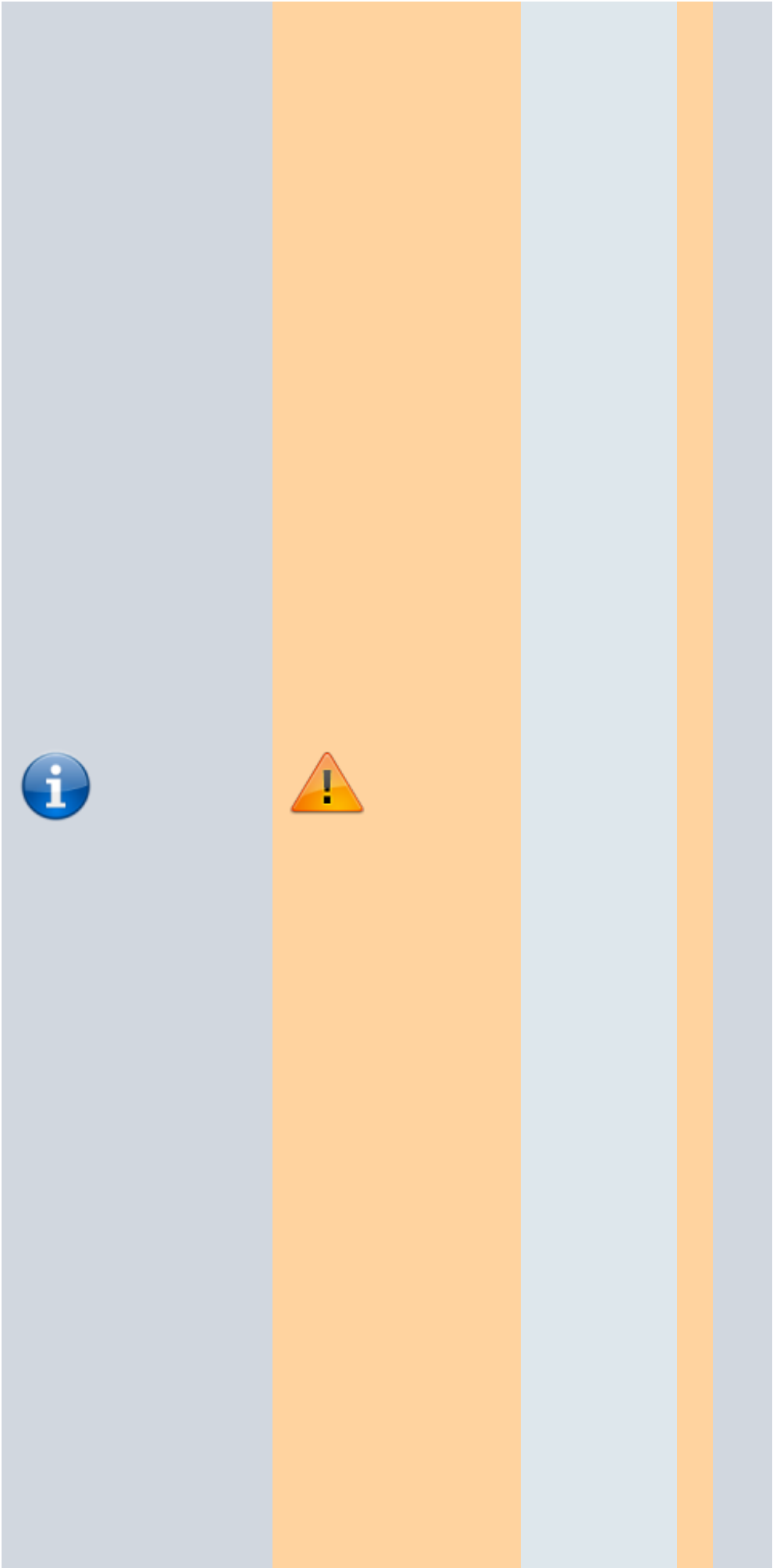
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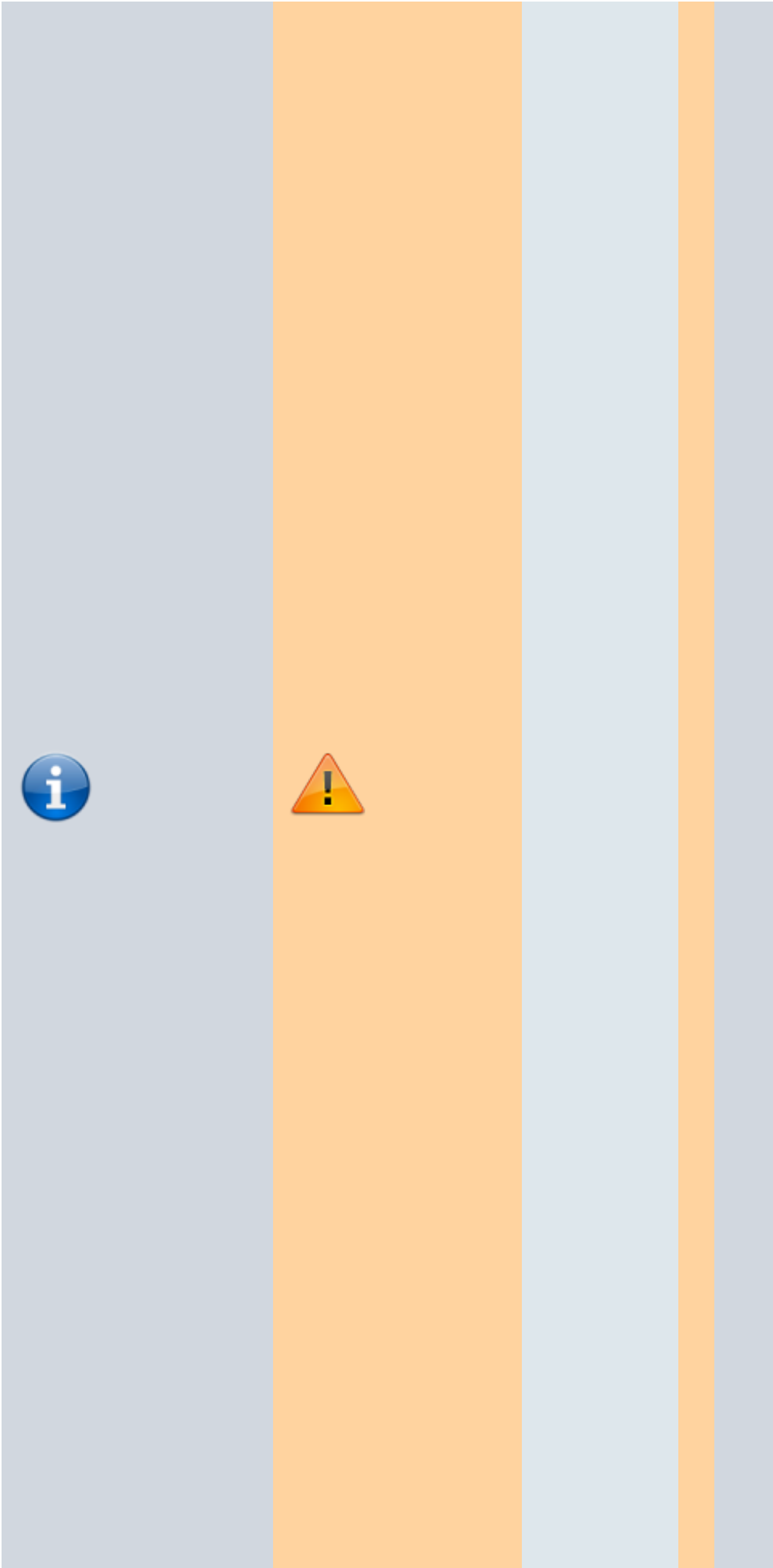
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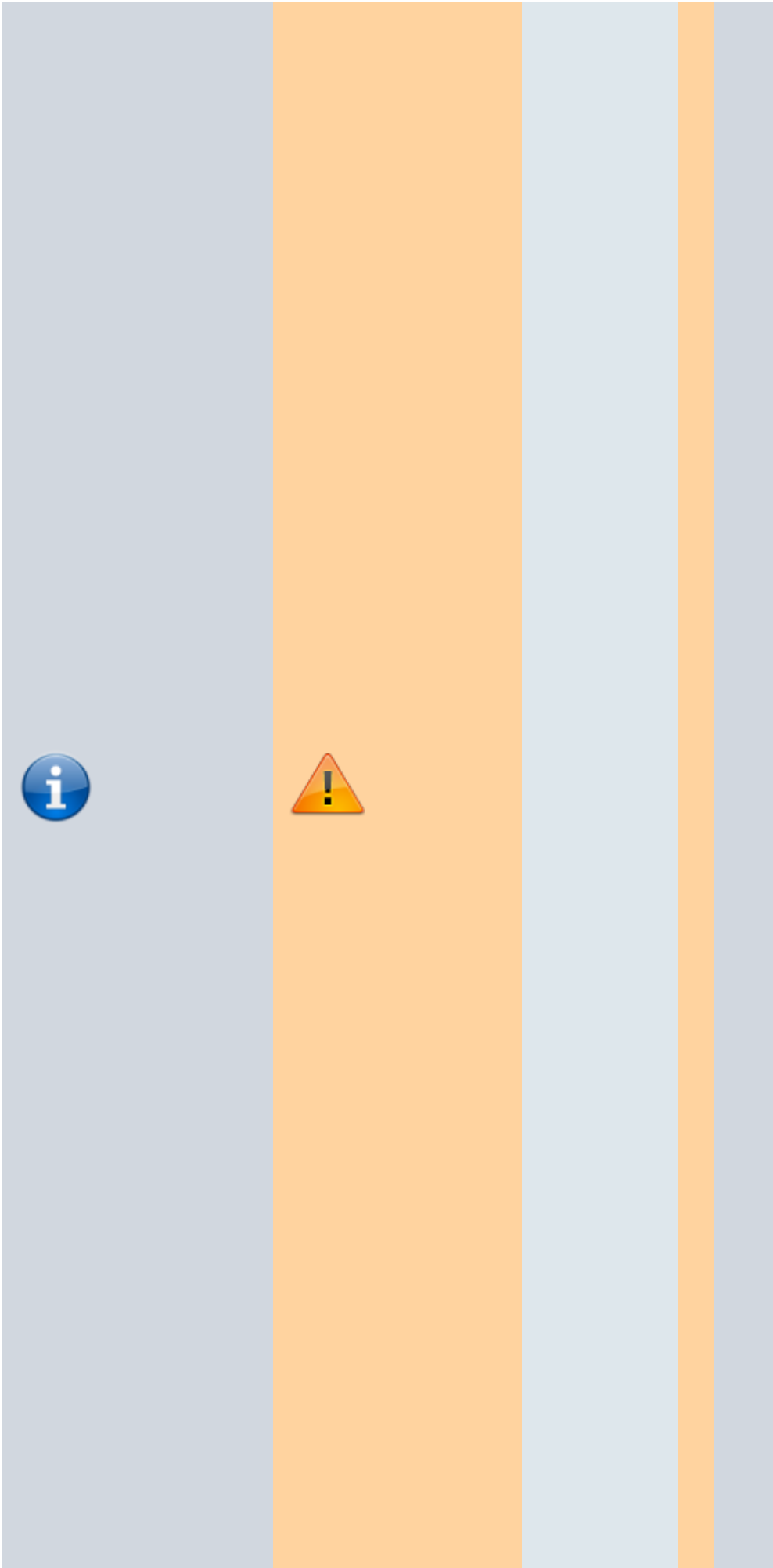
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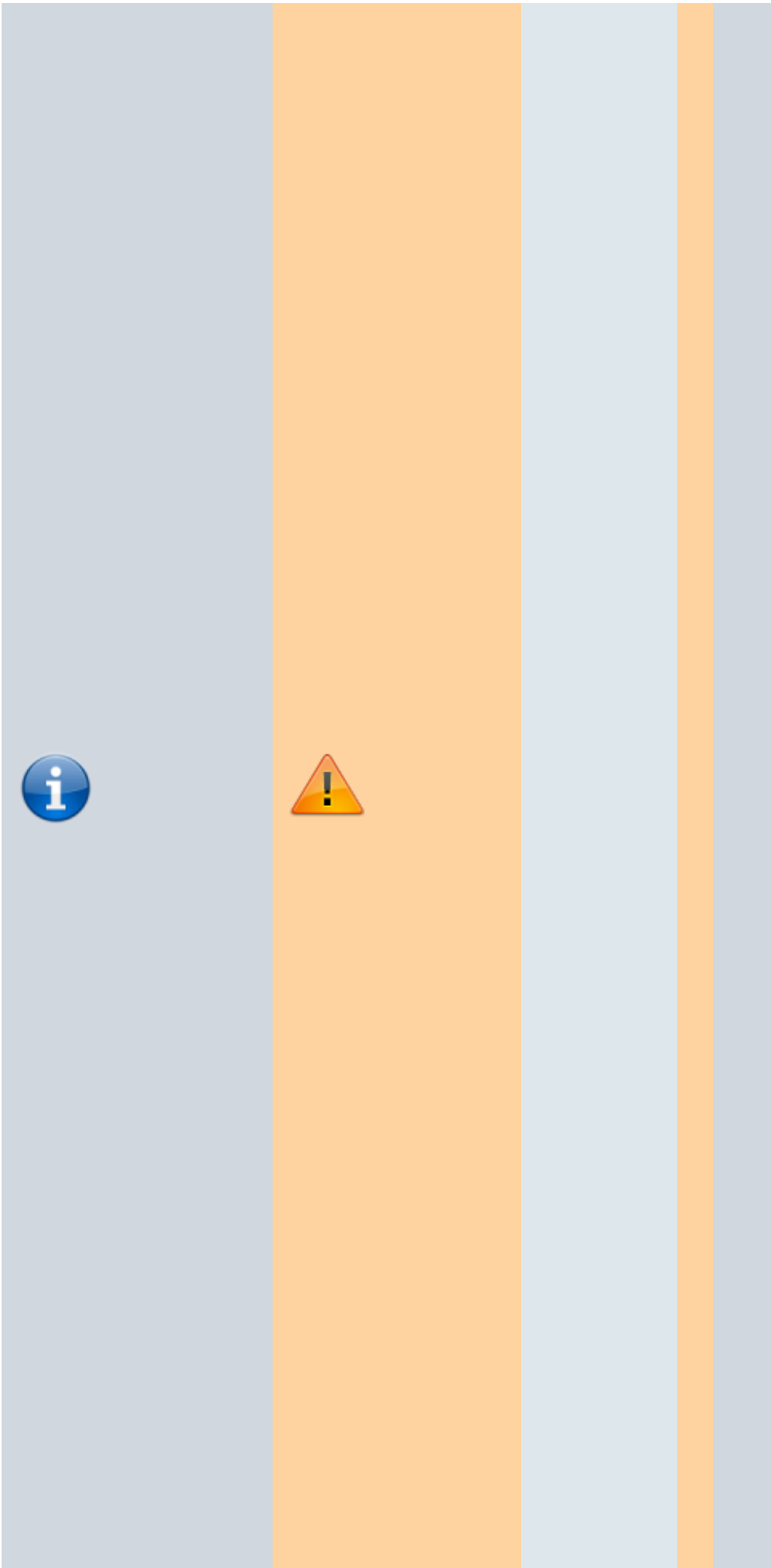




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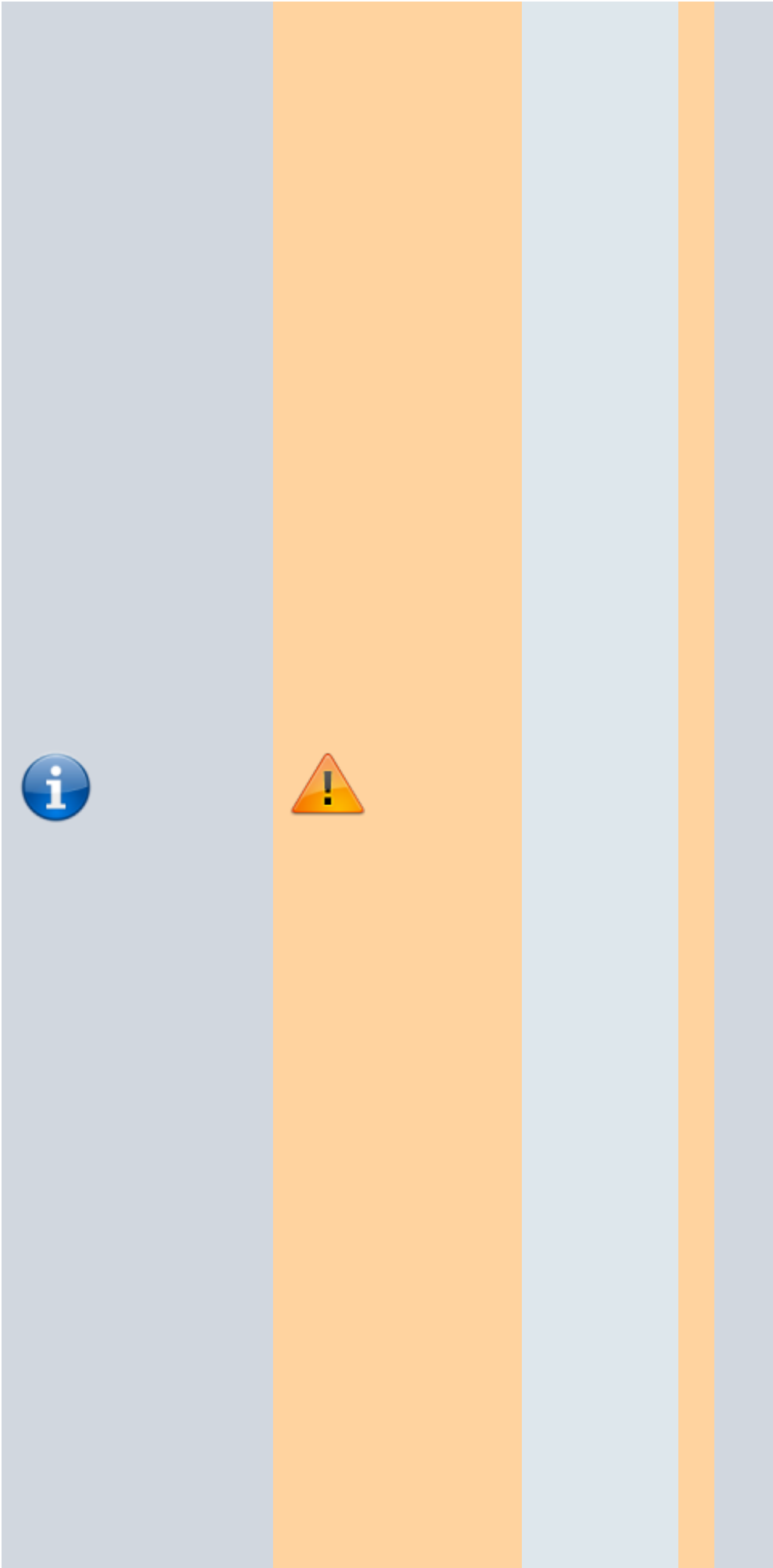


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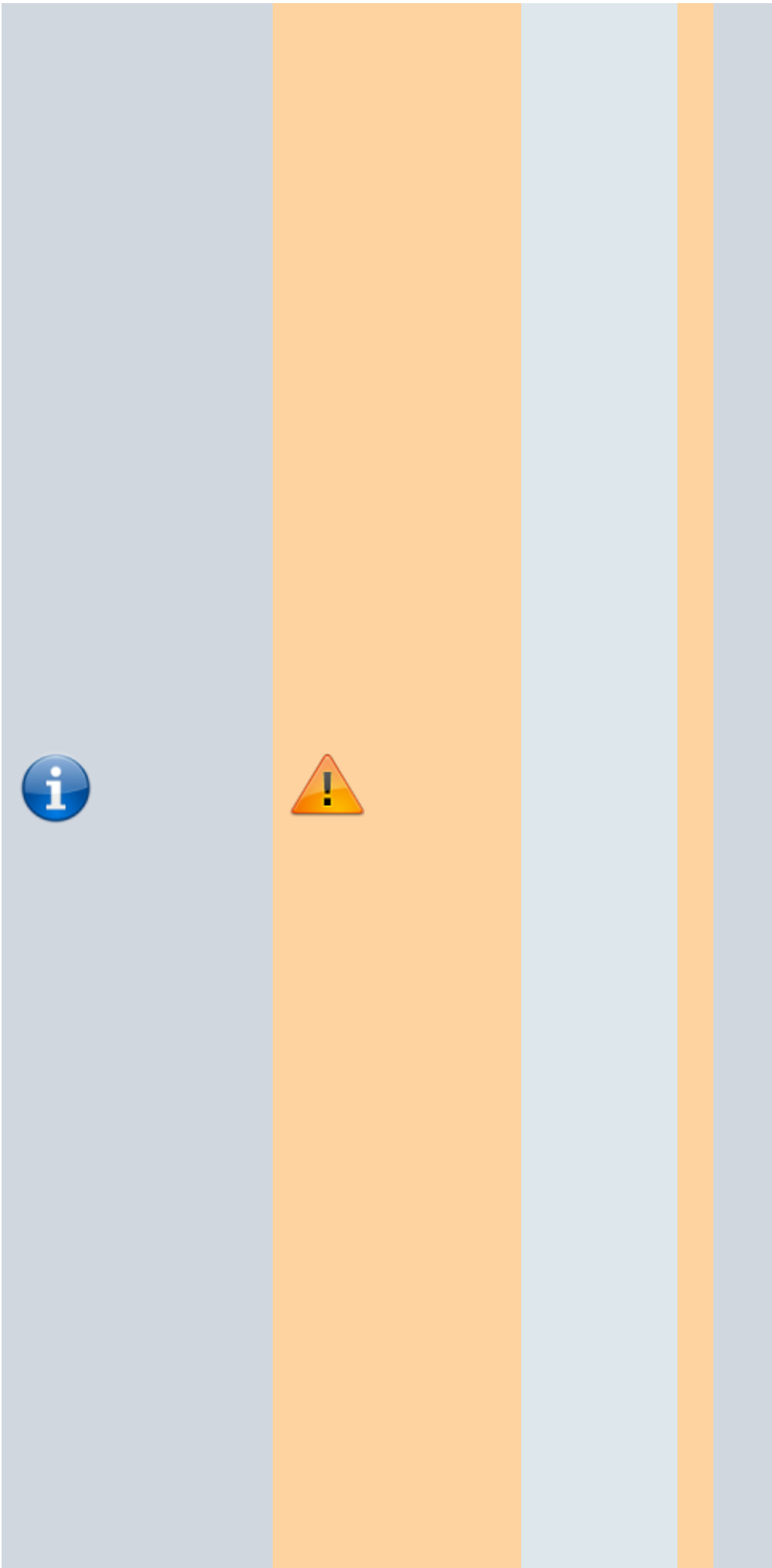


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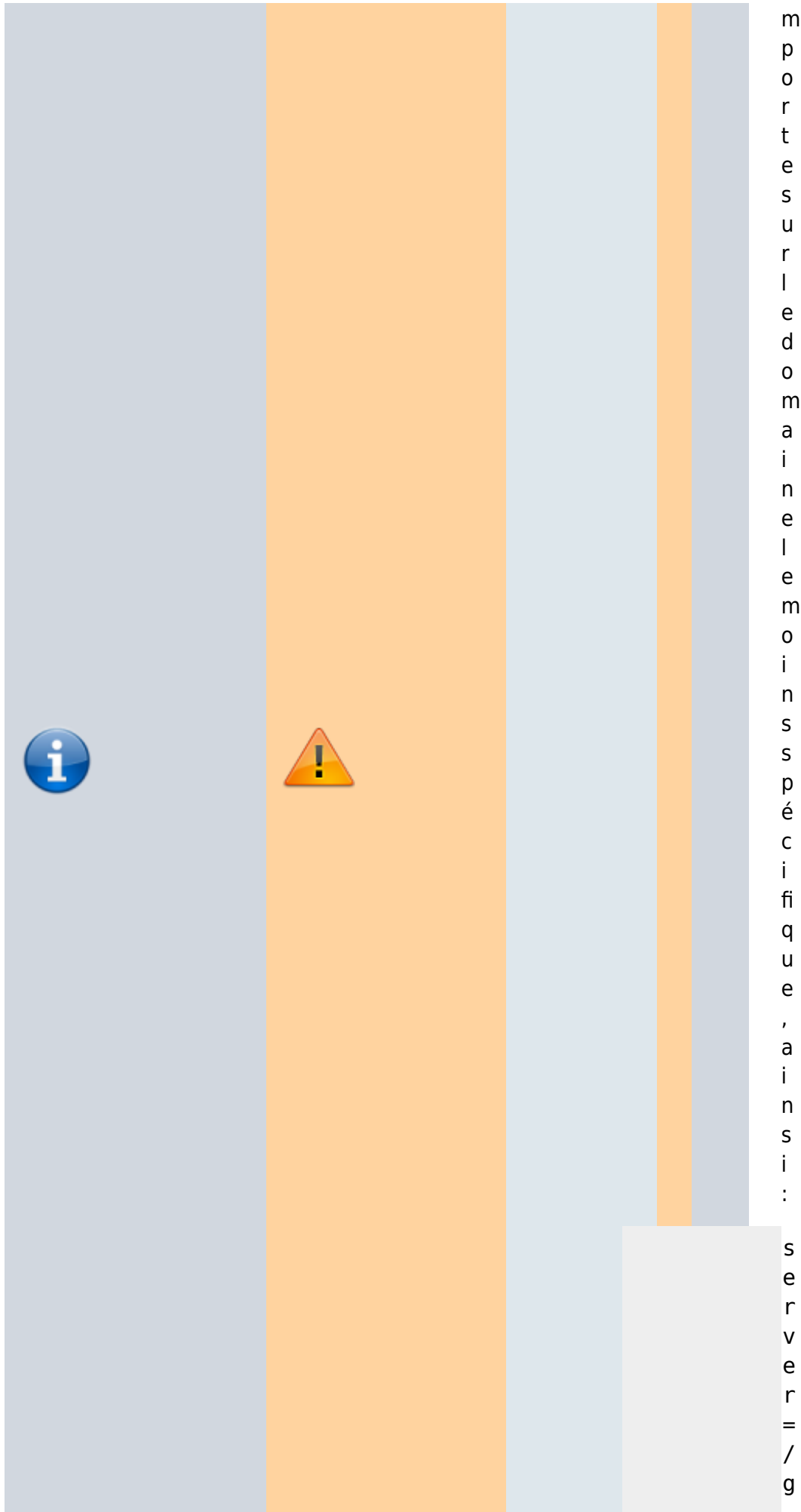
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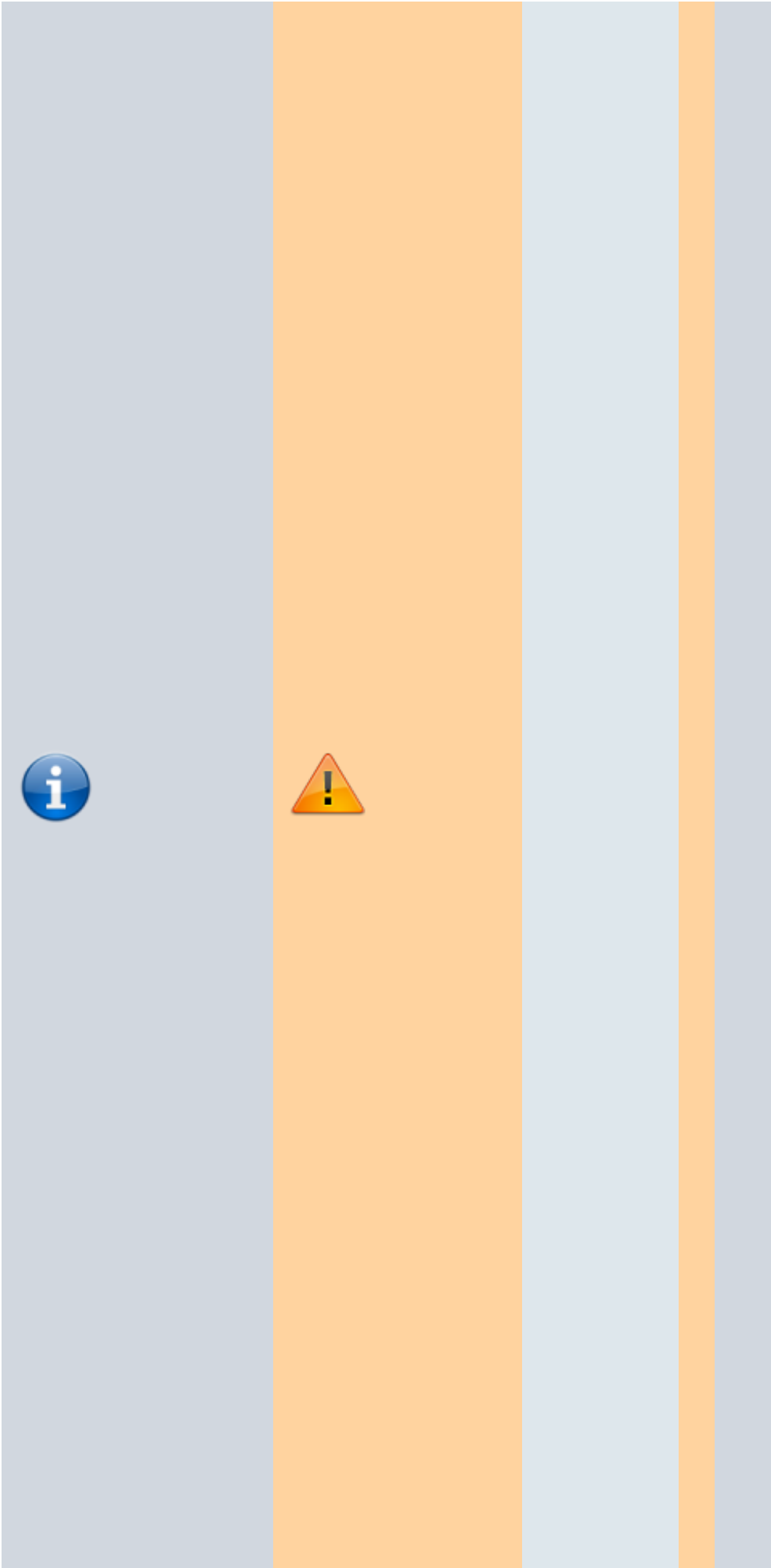


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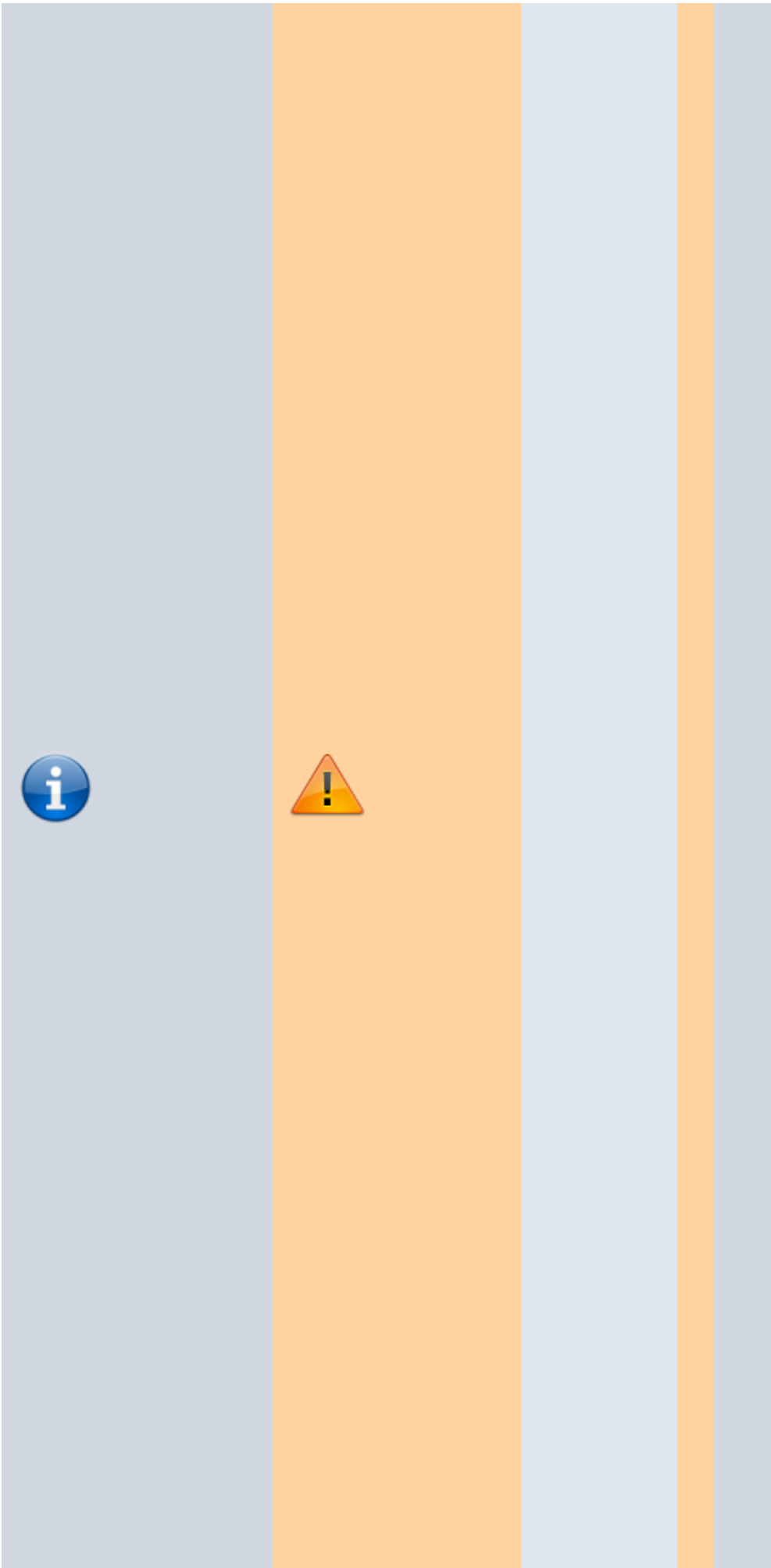


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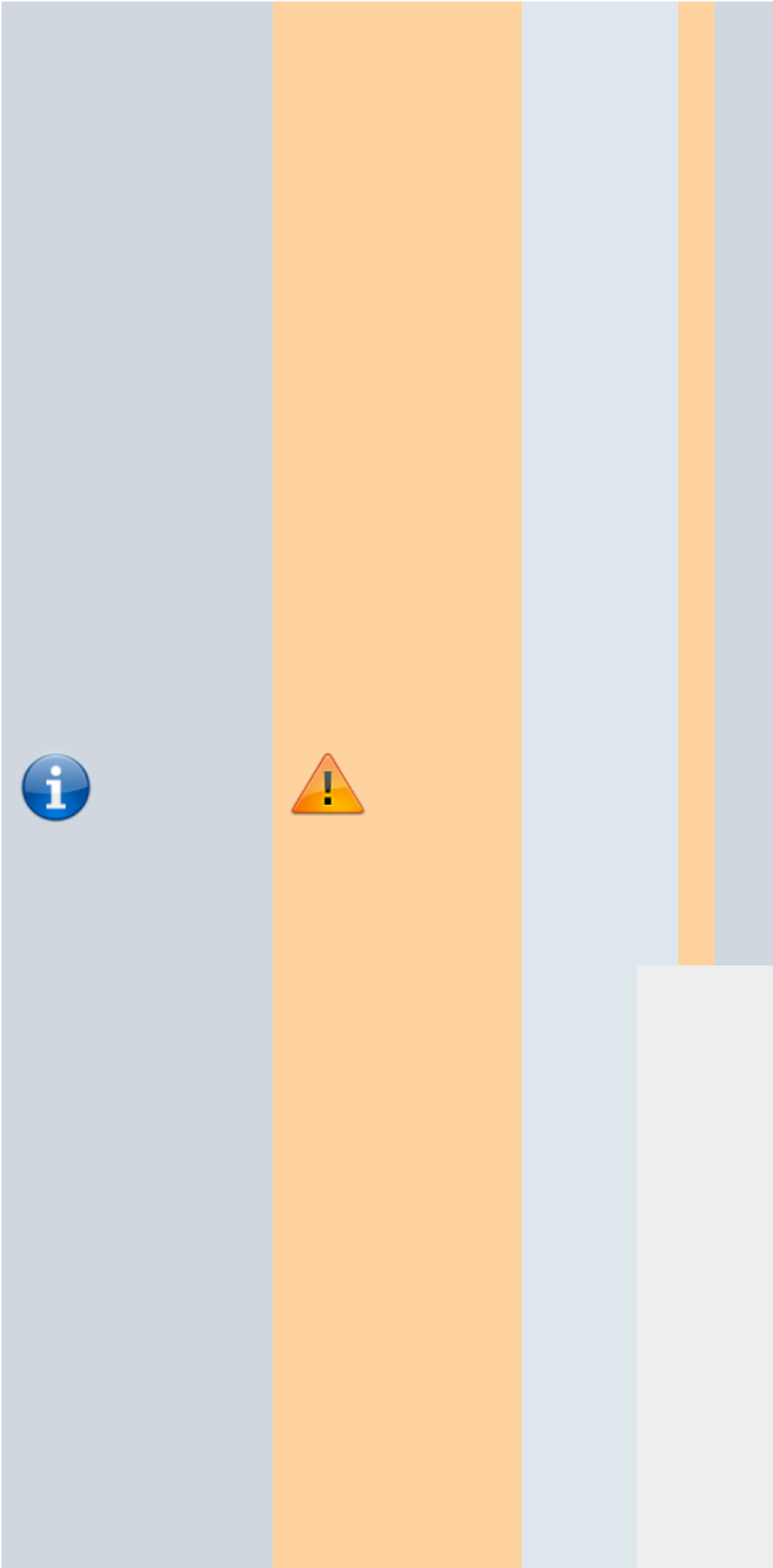


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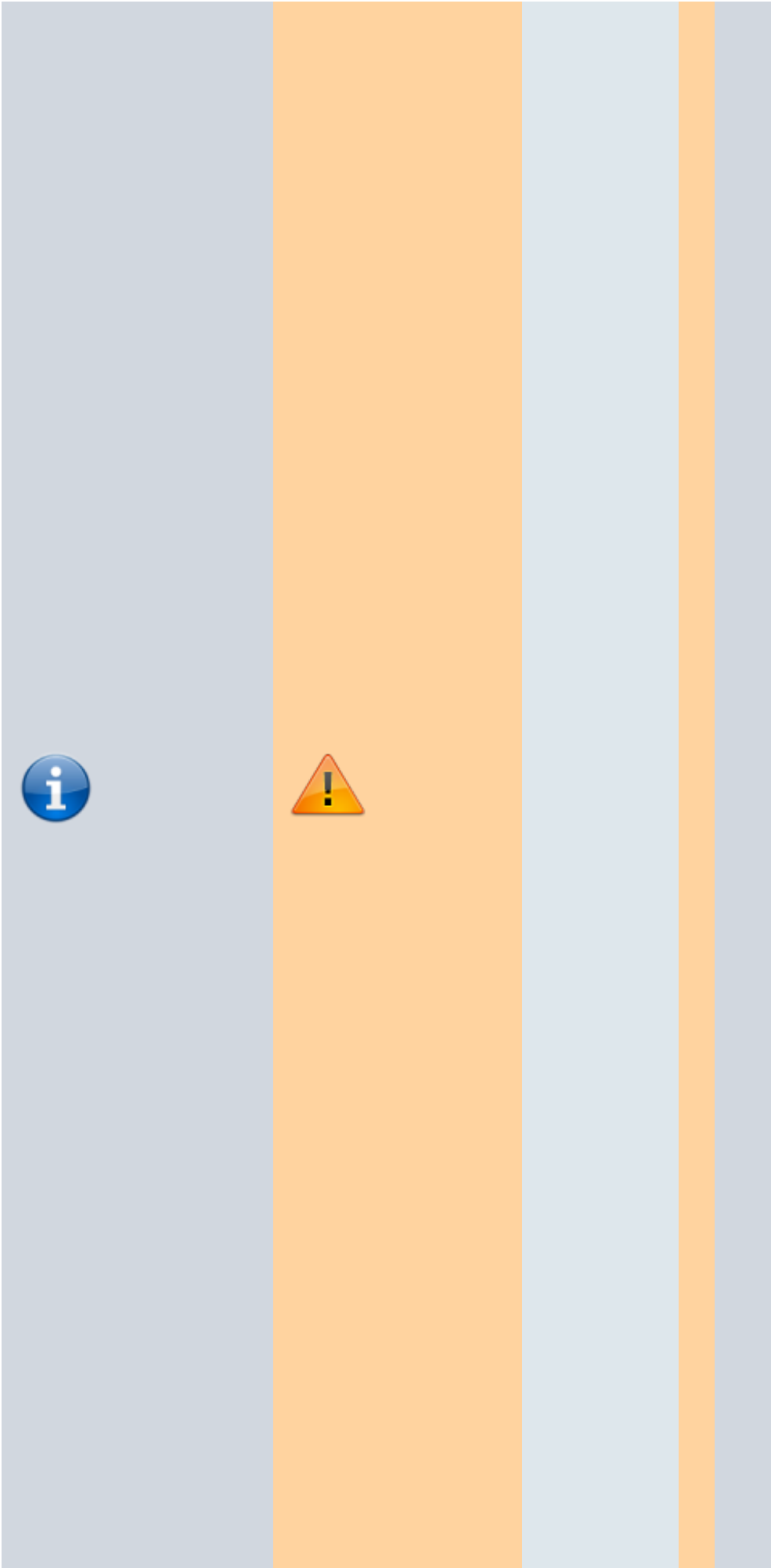
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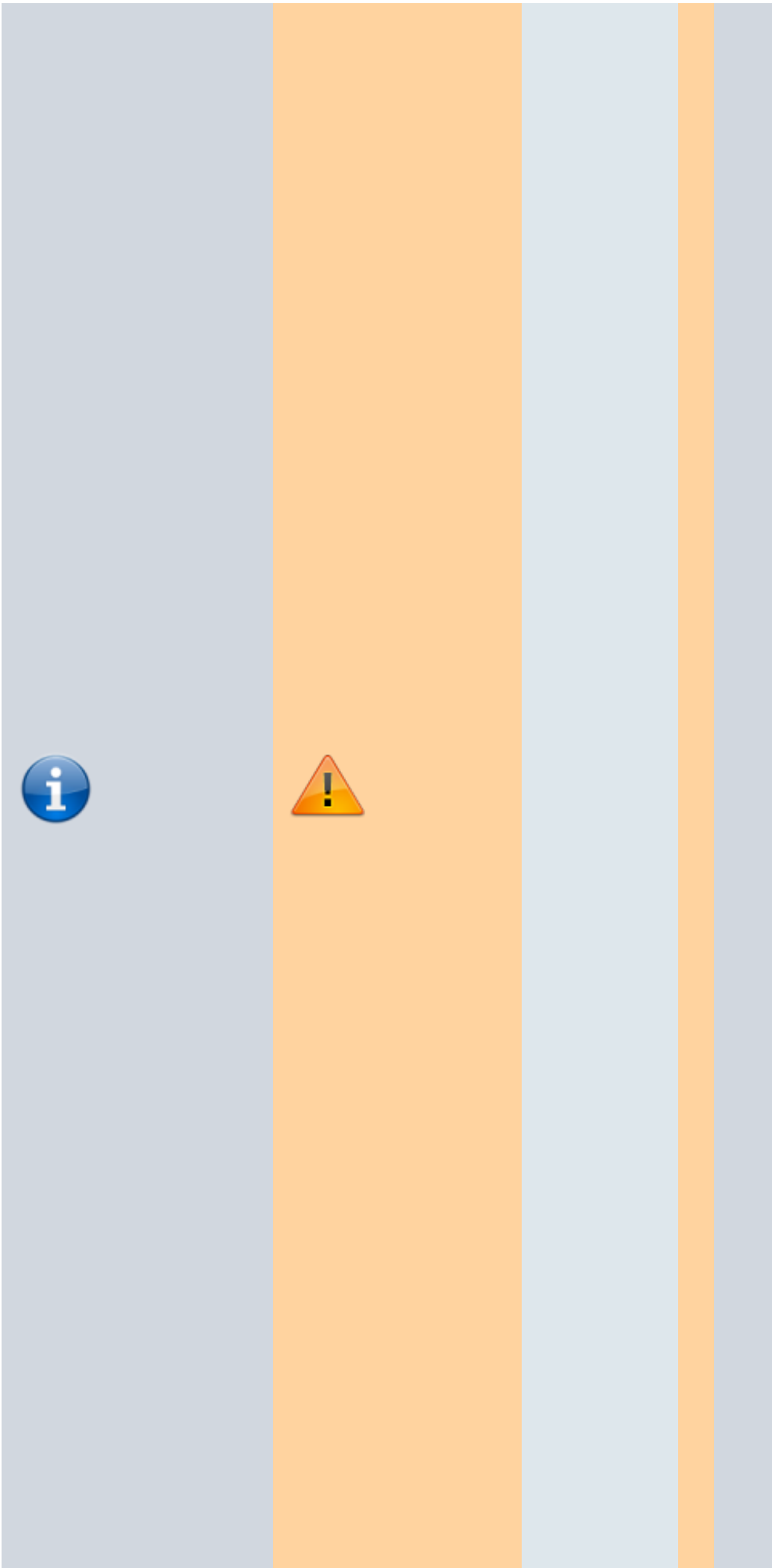
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The diagram consists of four vertical bars of different colors: light blue, orange, light blue, and light grey. The orange bar contains a warning icon (a yellow triangle with a black exclamation mark). The light blue bar contains an information icon (a blue circle with a white 'i'). To the right of the bars is a vertical text column containing the following text: /, 1, ., 2, ., 3, ., 4, s, e, r, v, e, r, =, /, w, w, w, ., g, o, o, g, l, e, ., c, o, m, /, #, e, n, v, e, r, r, a, l, e, s, r, e, q, u, ê, t, e, s.

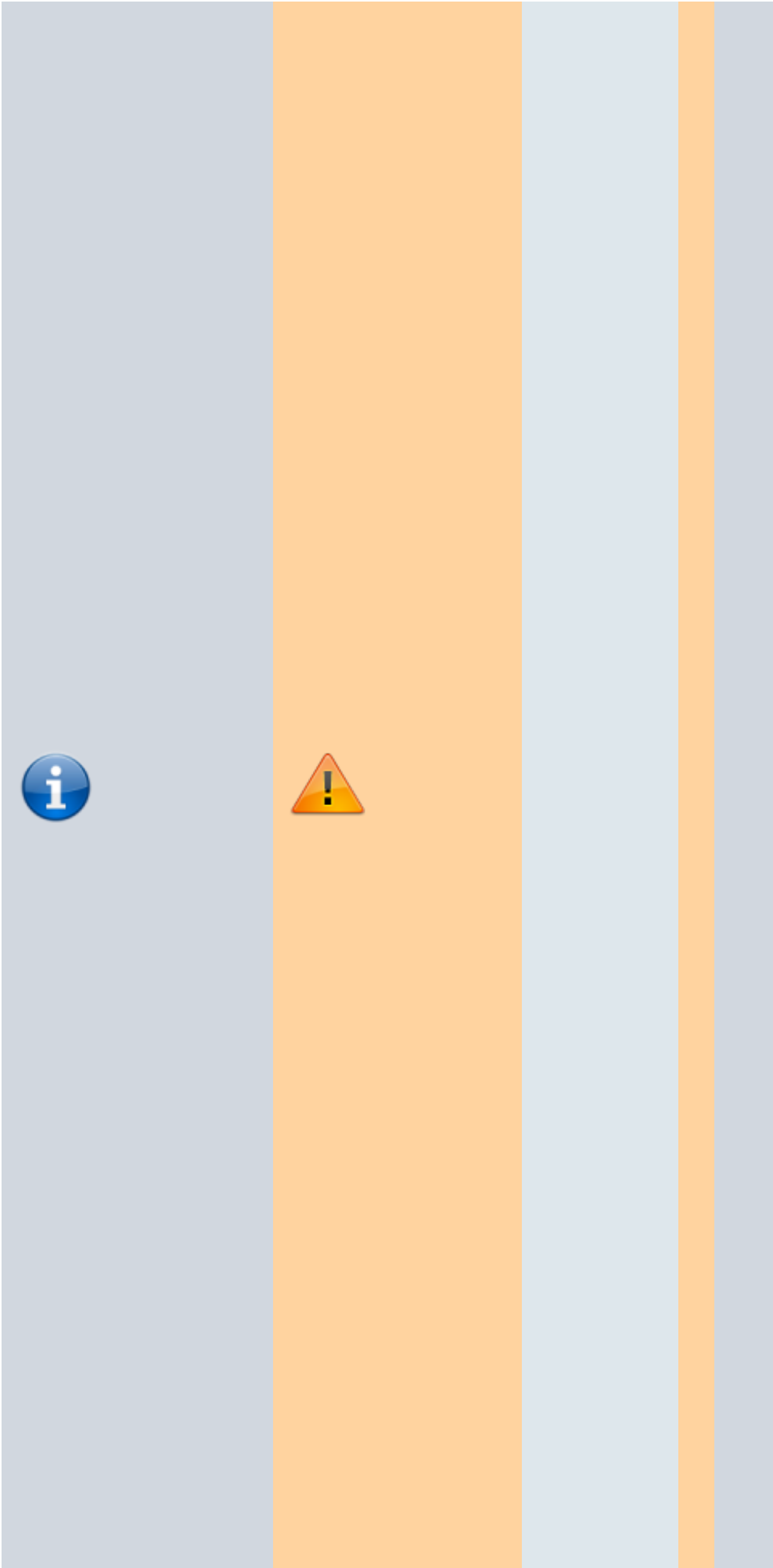


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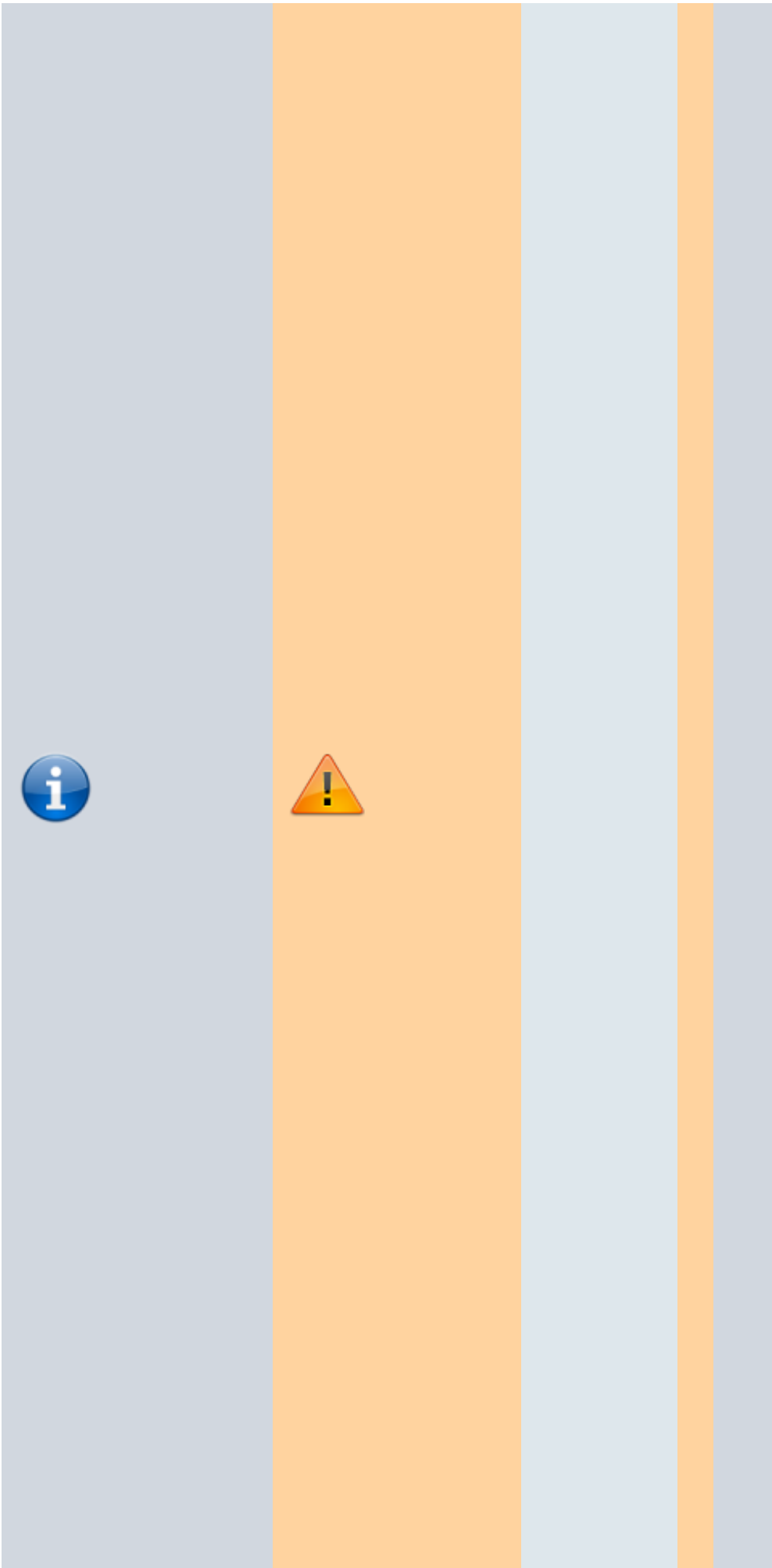


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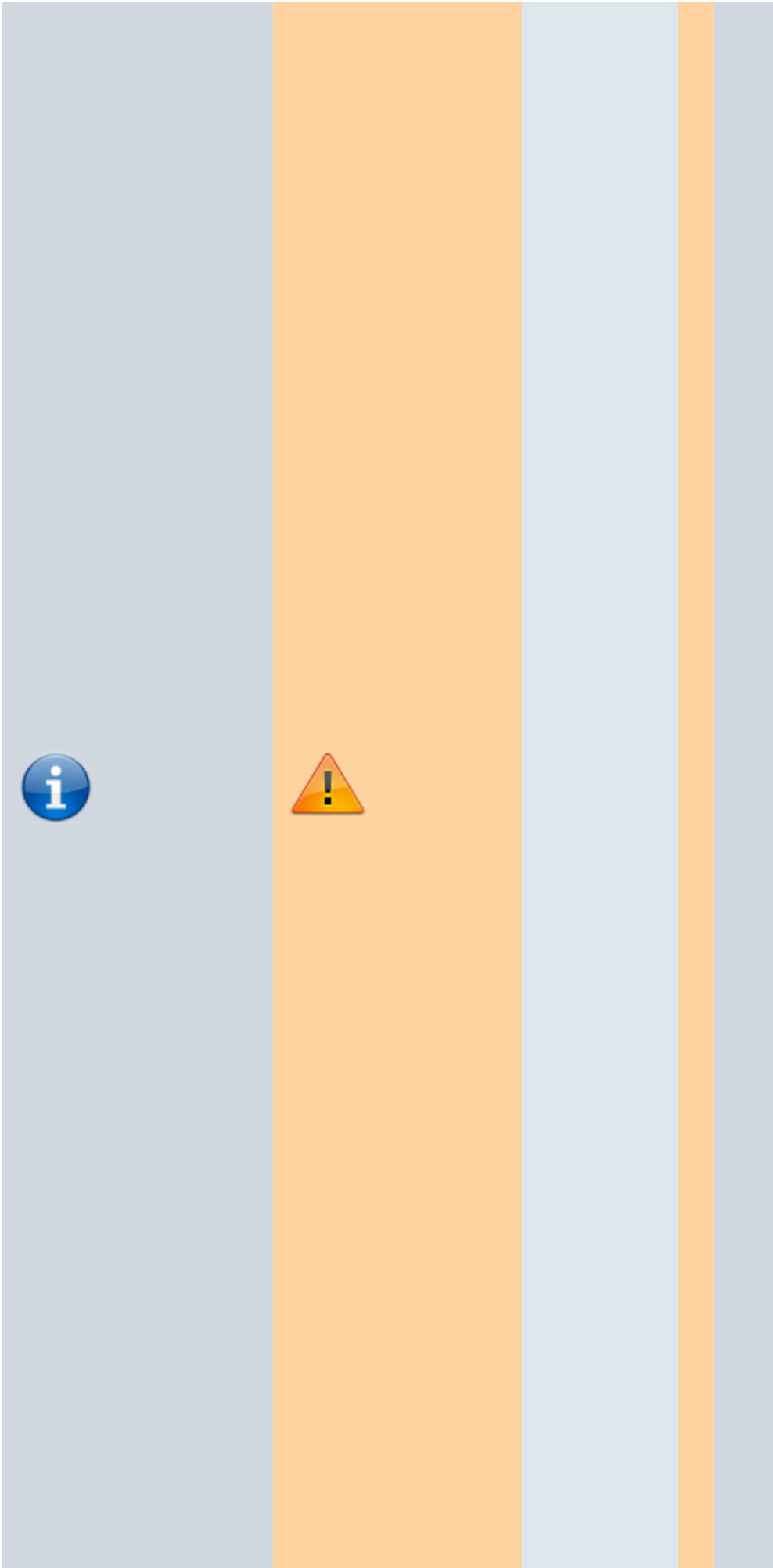
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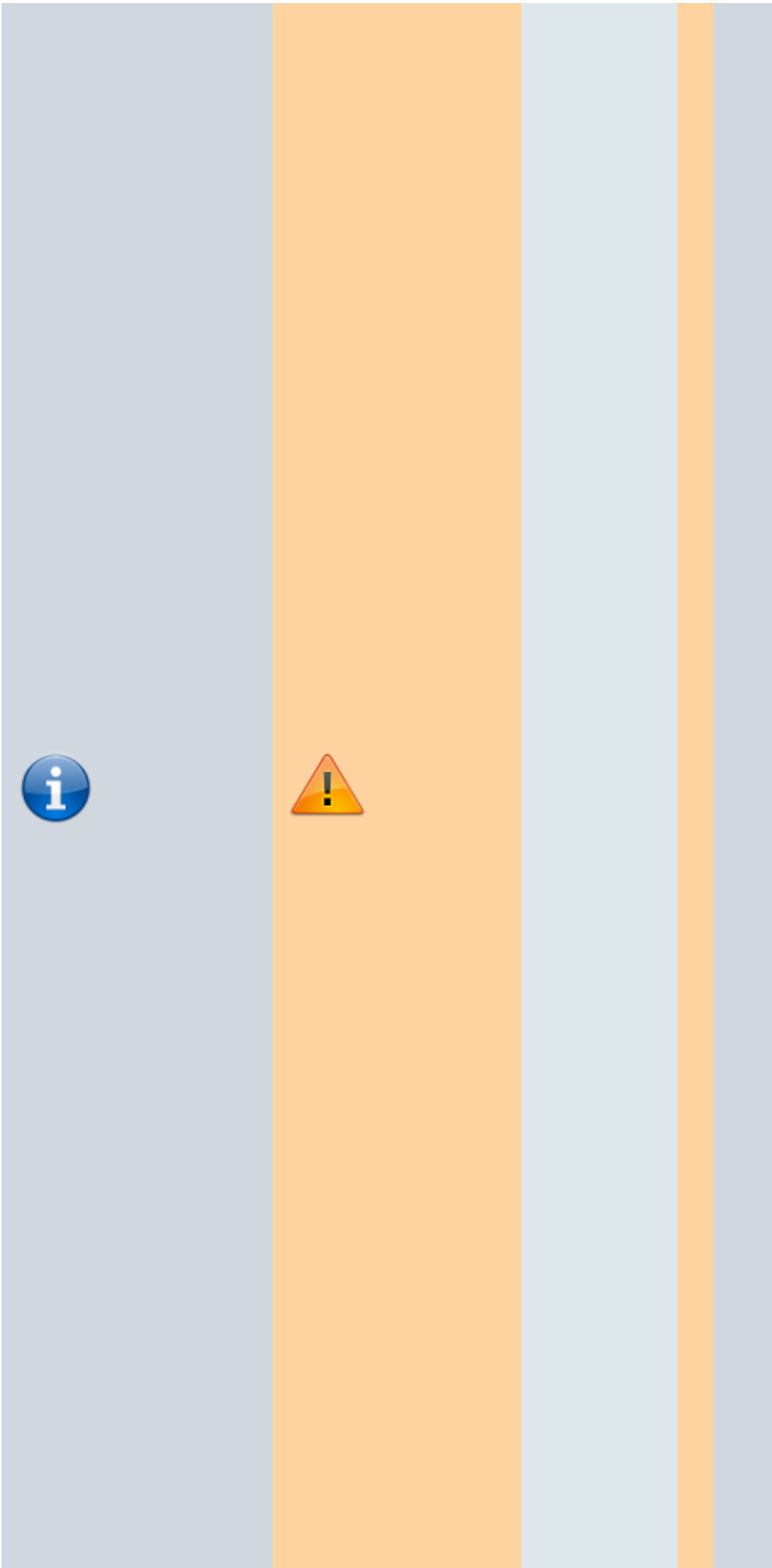
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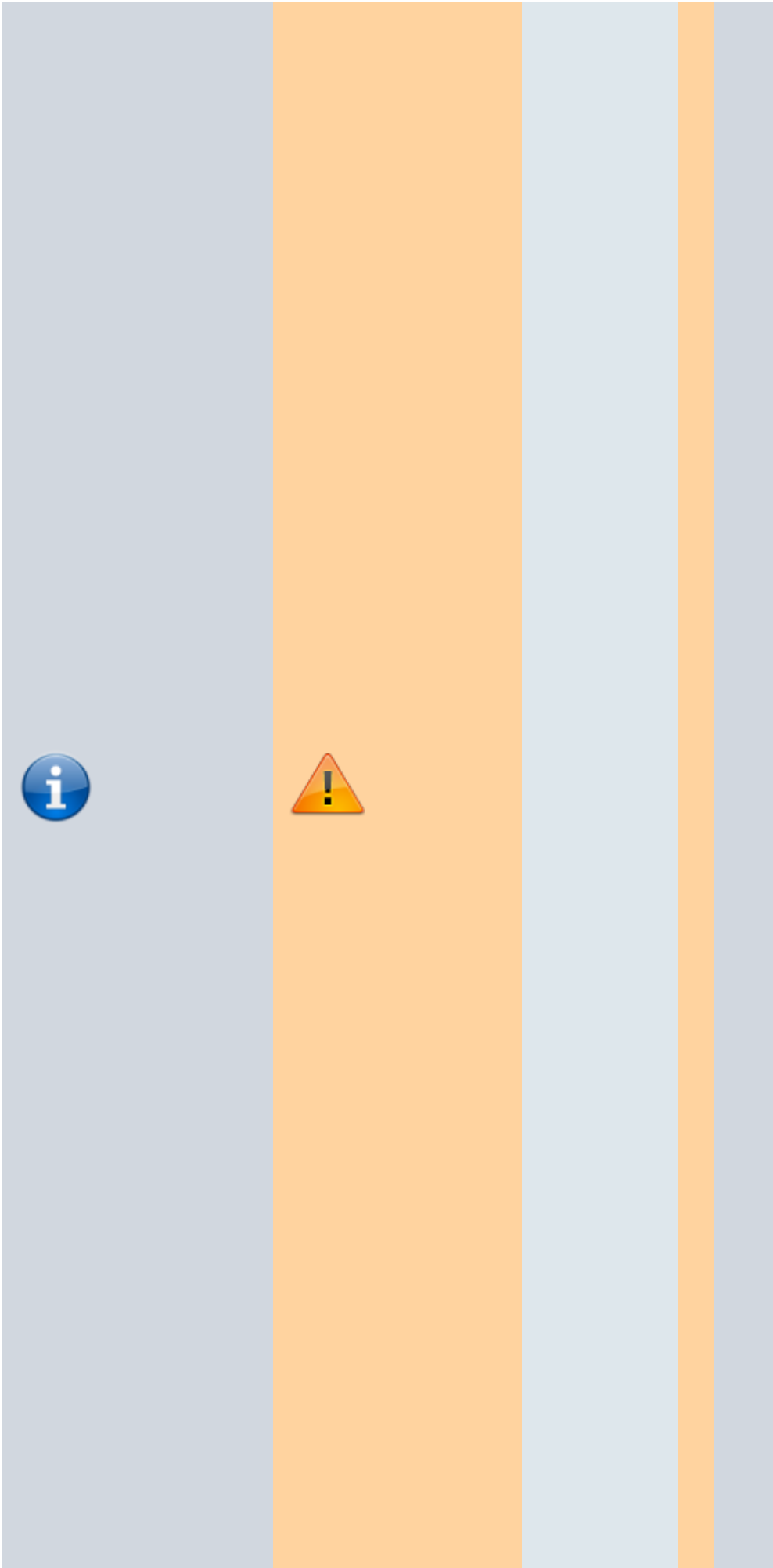
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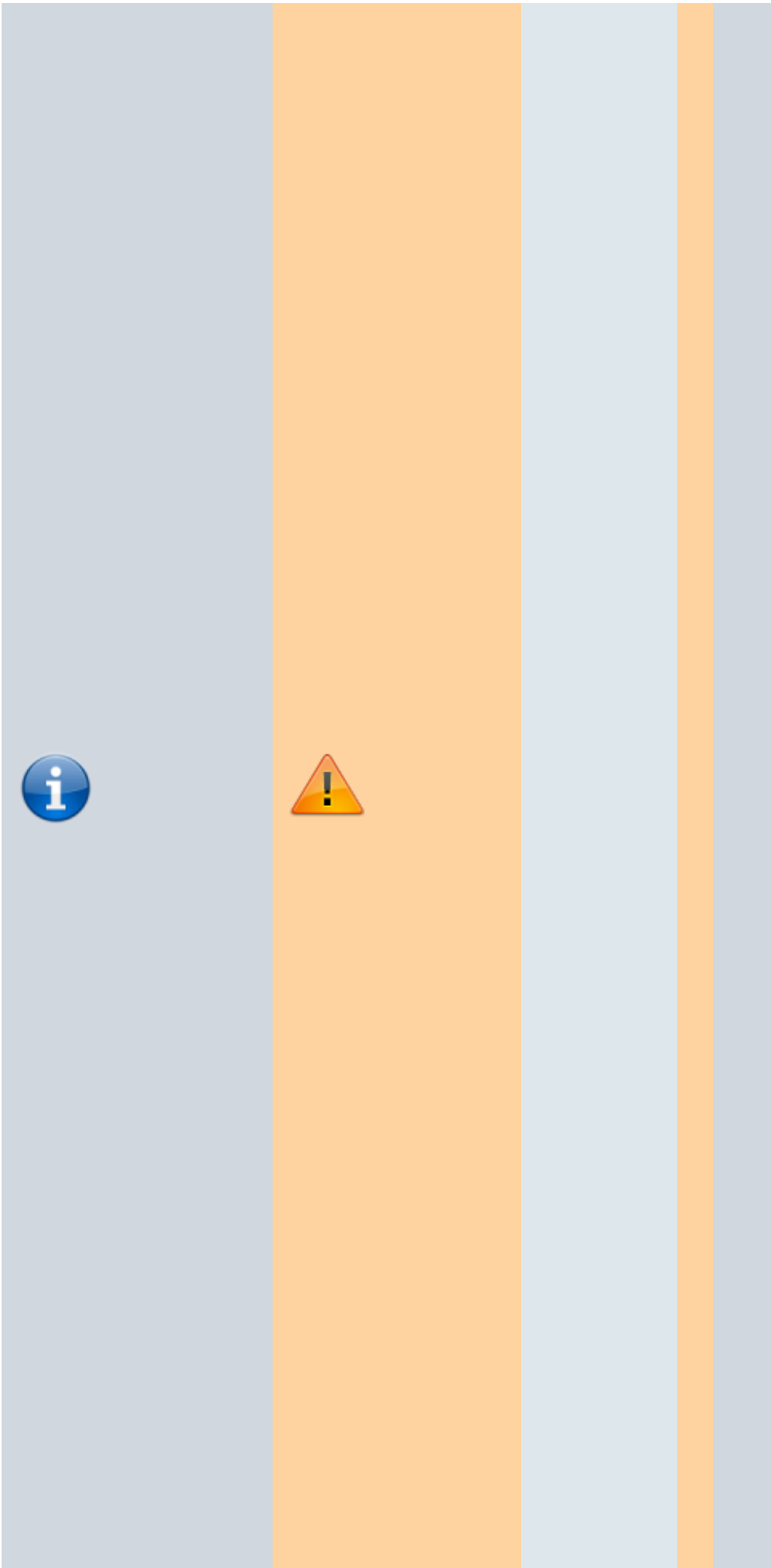
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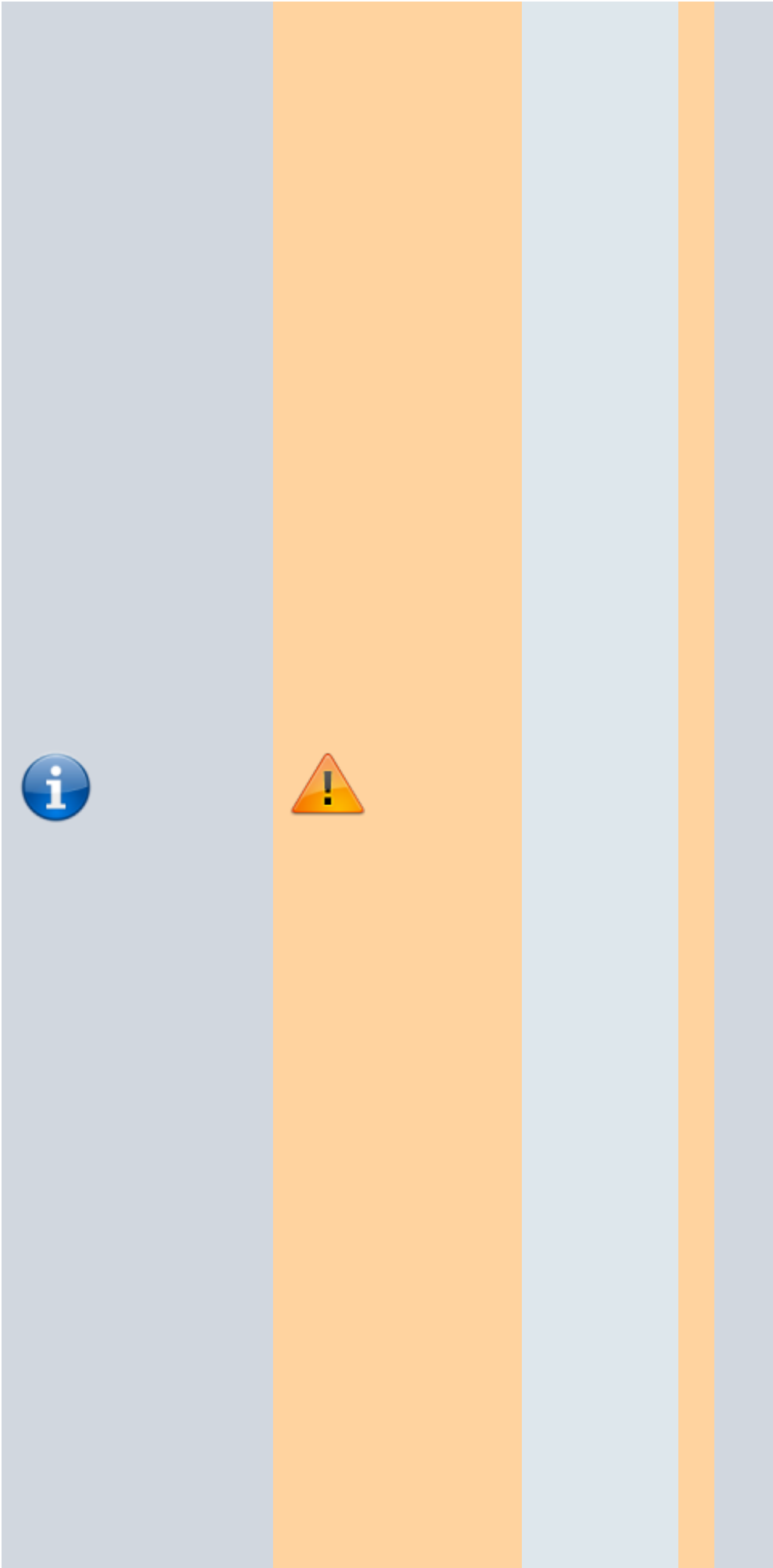
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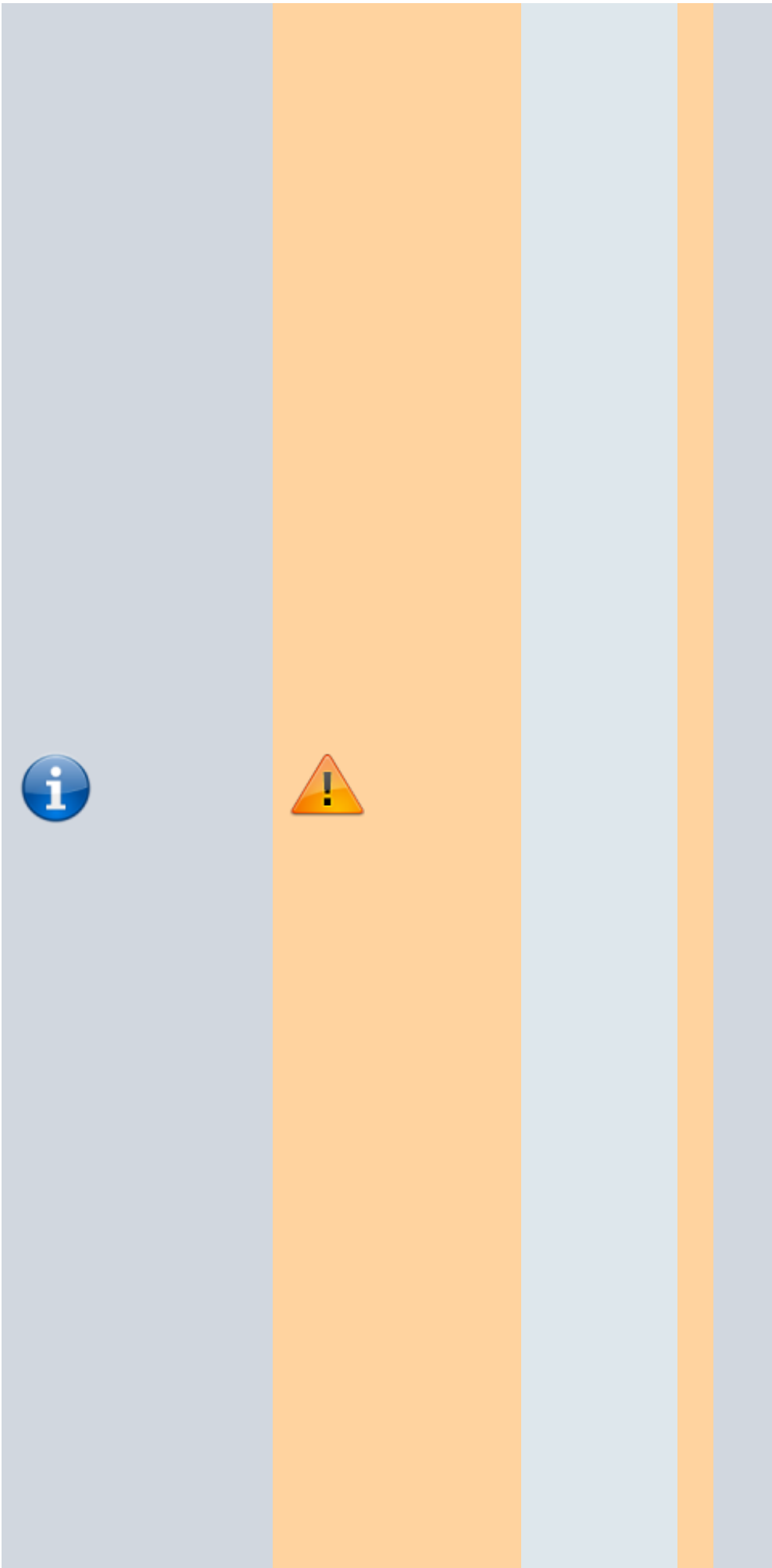
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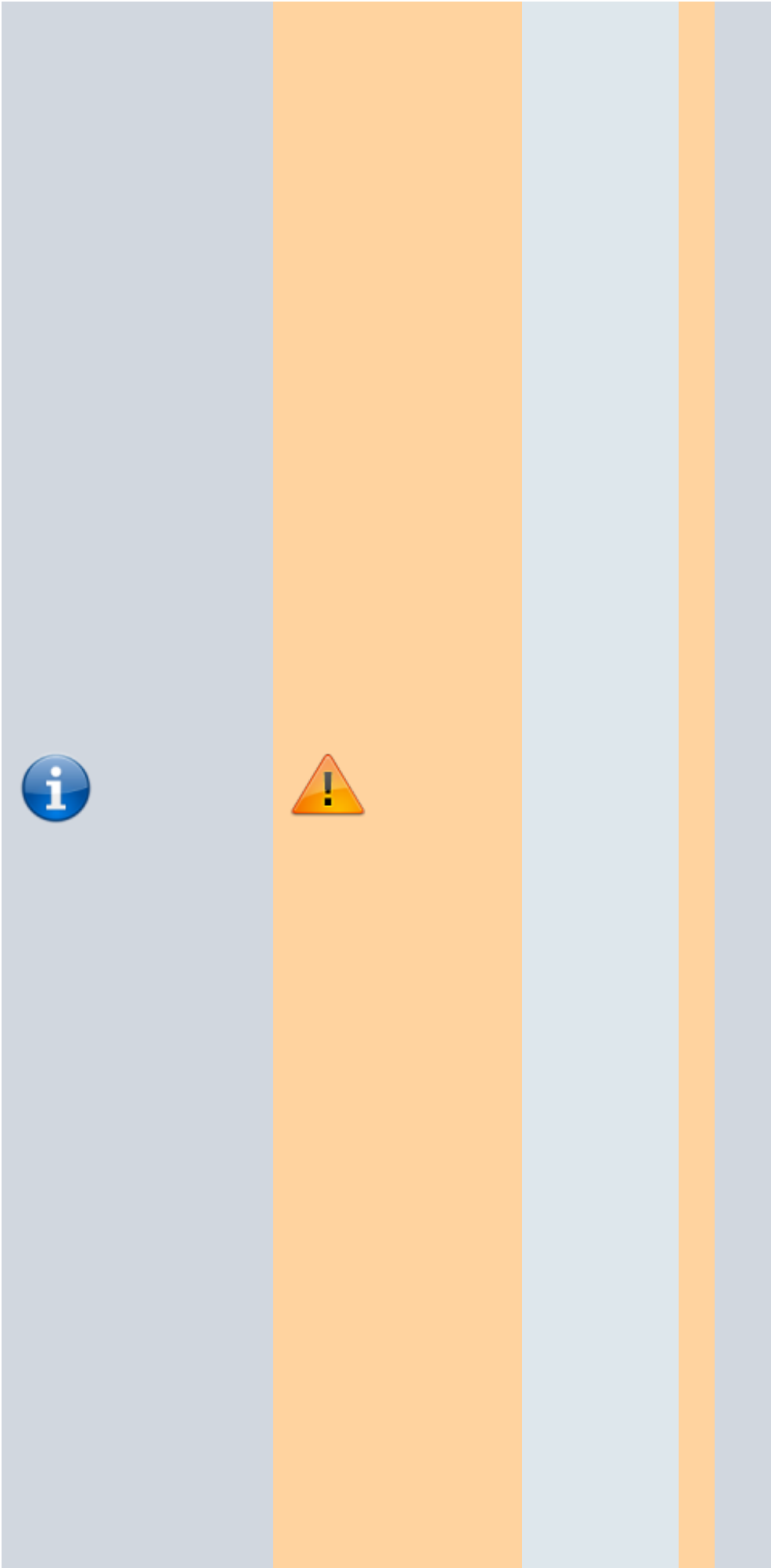
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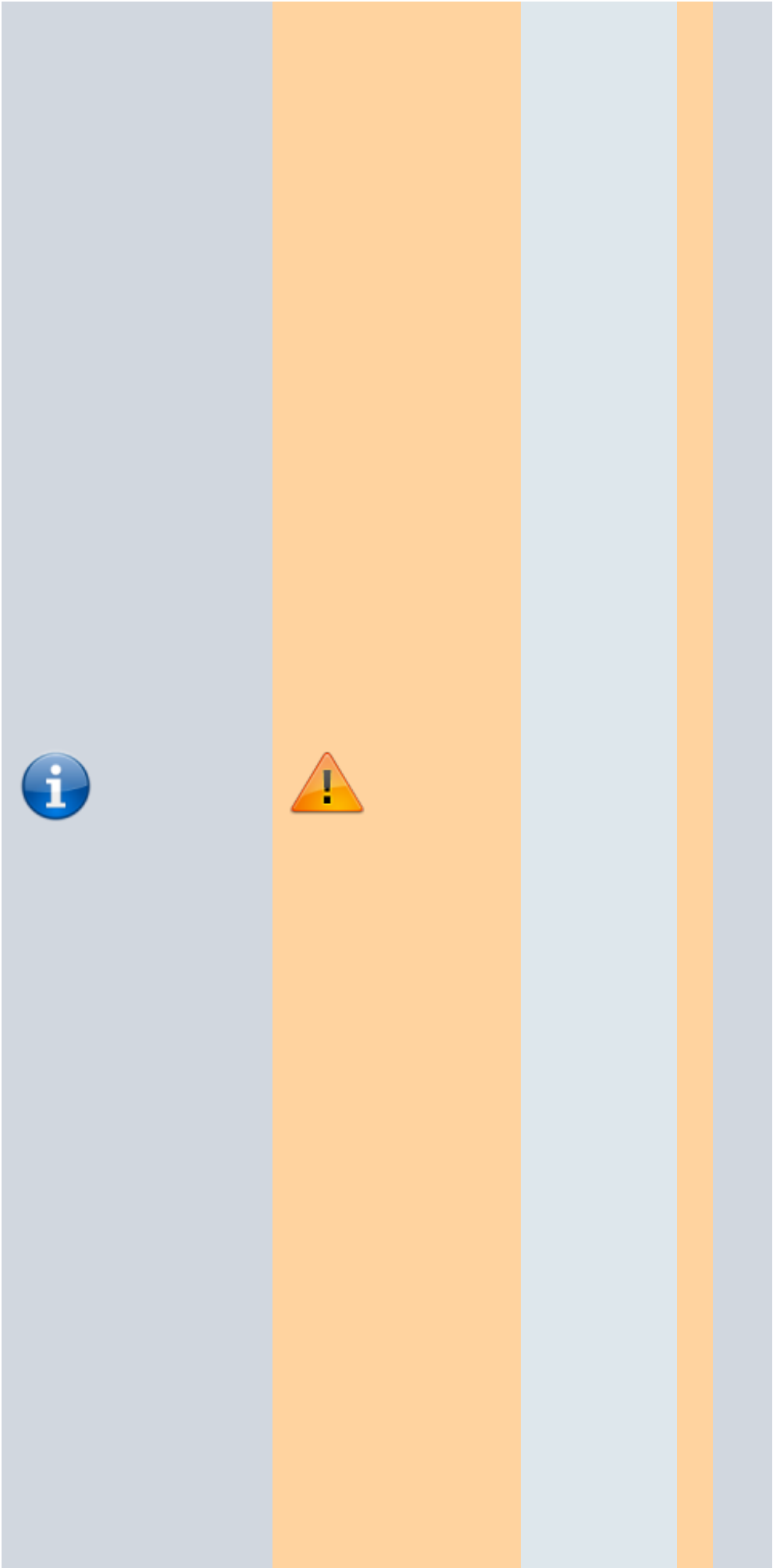
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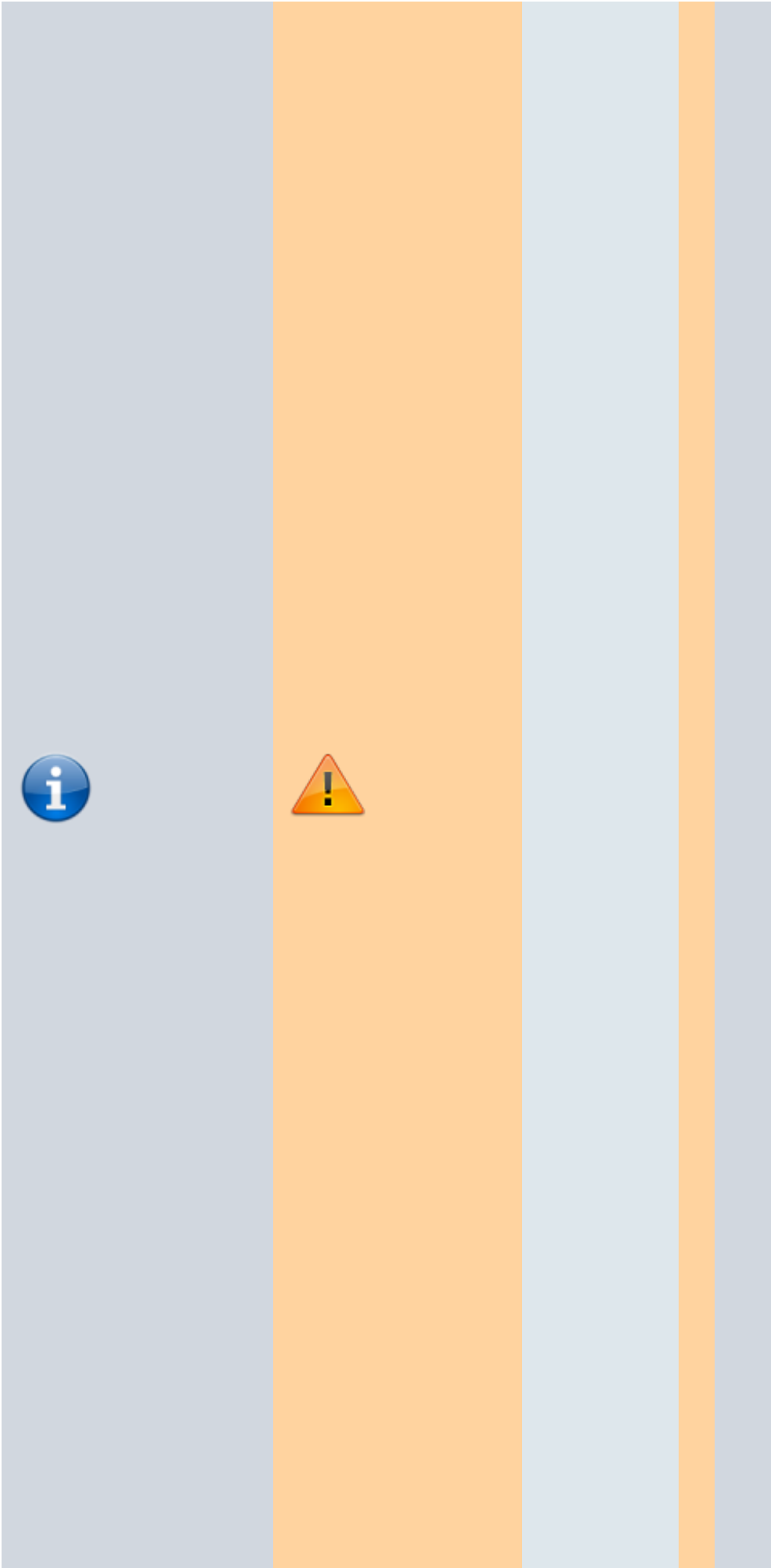
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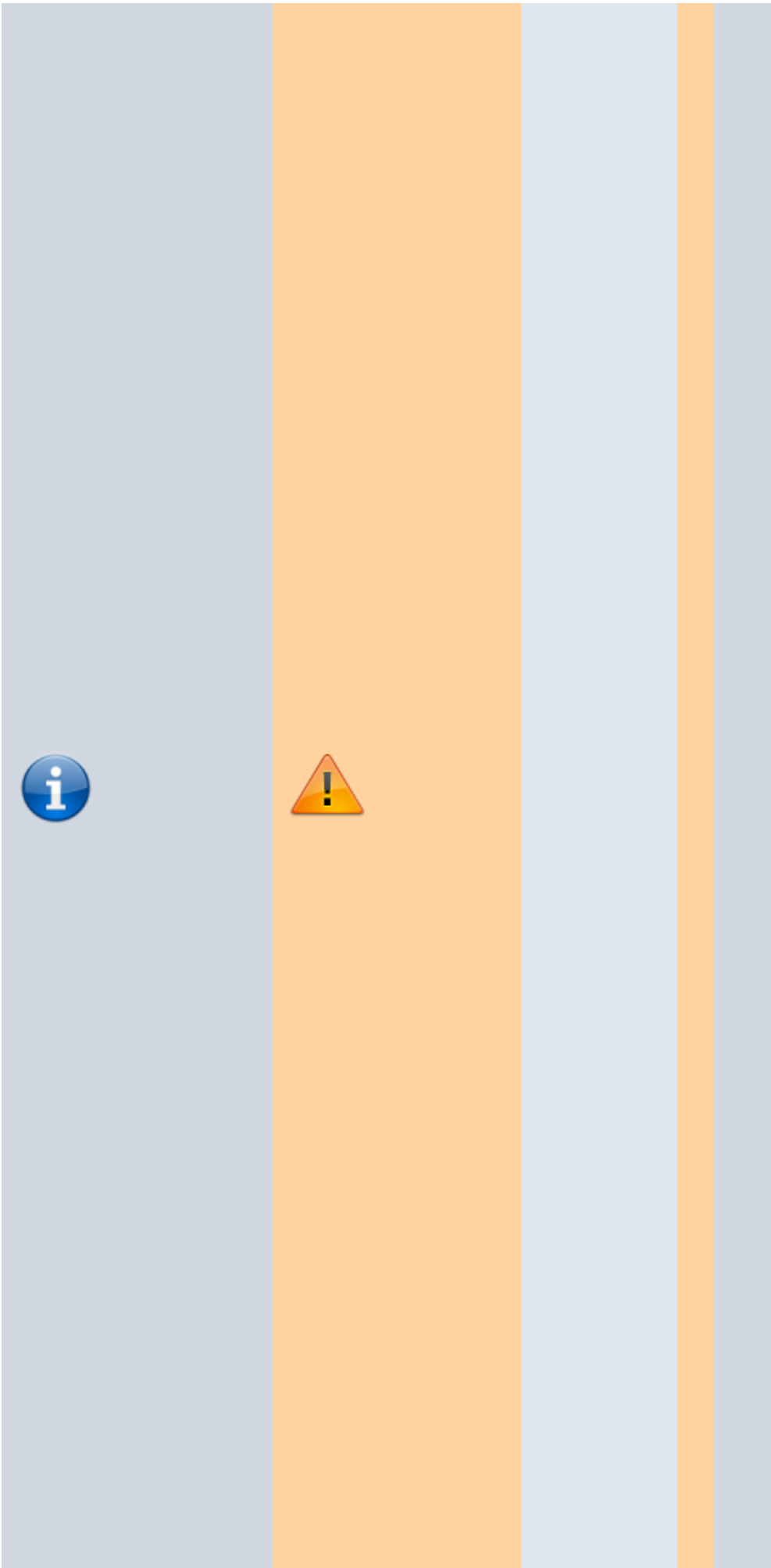
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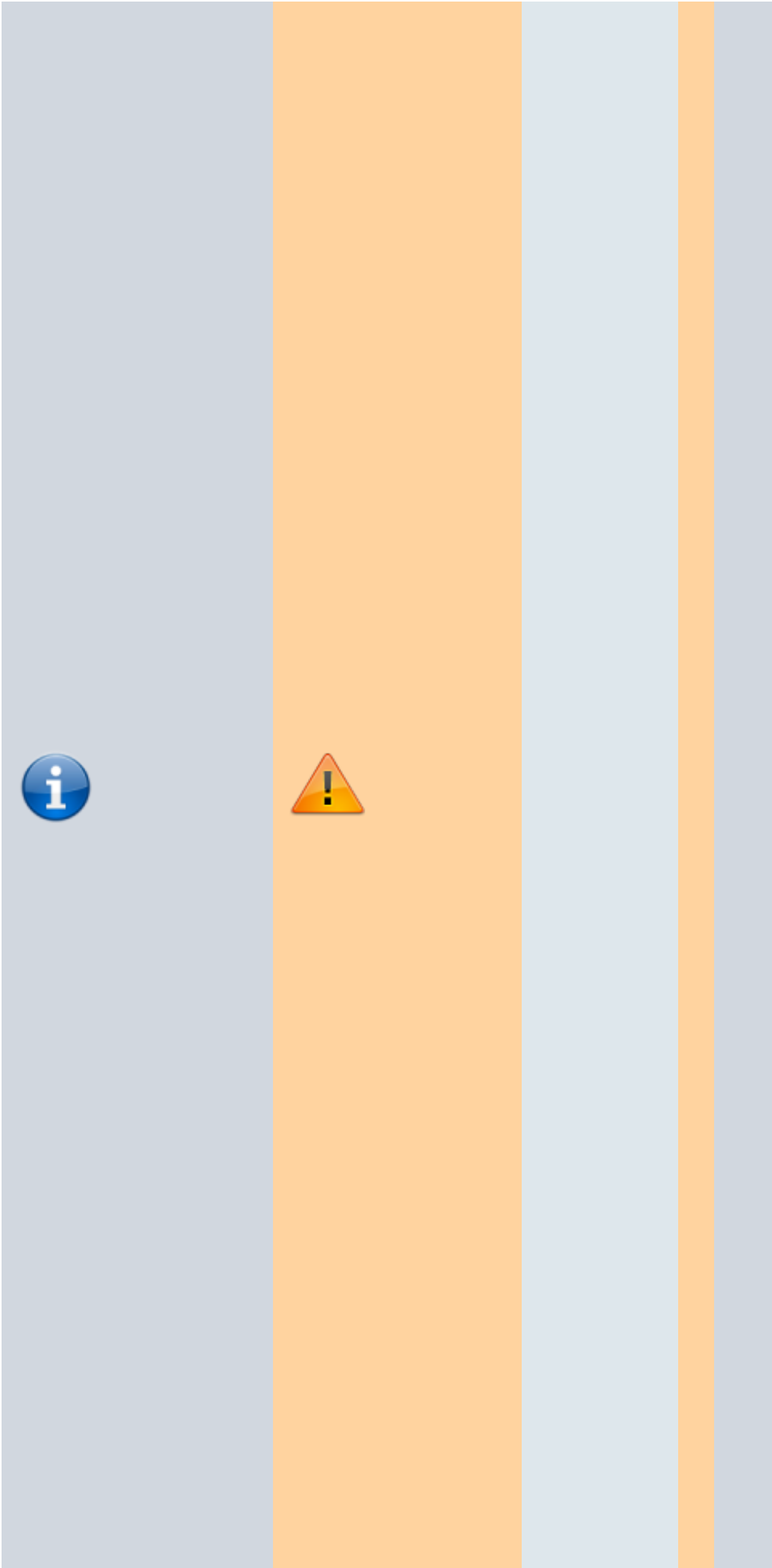
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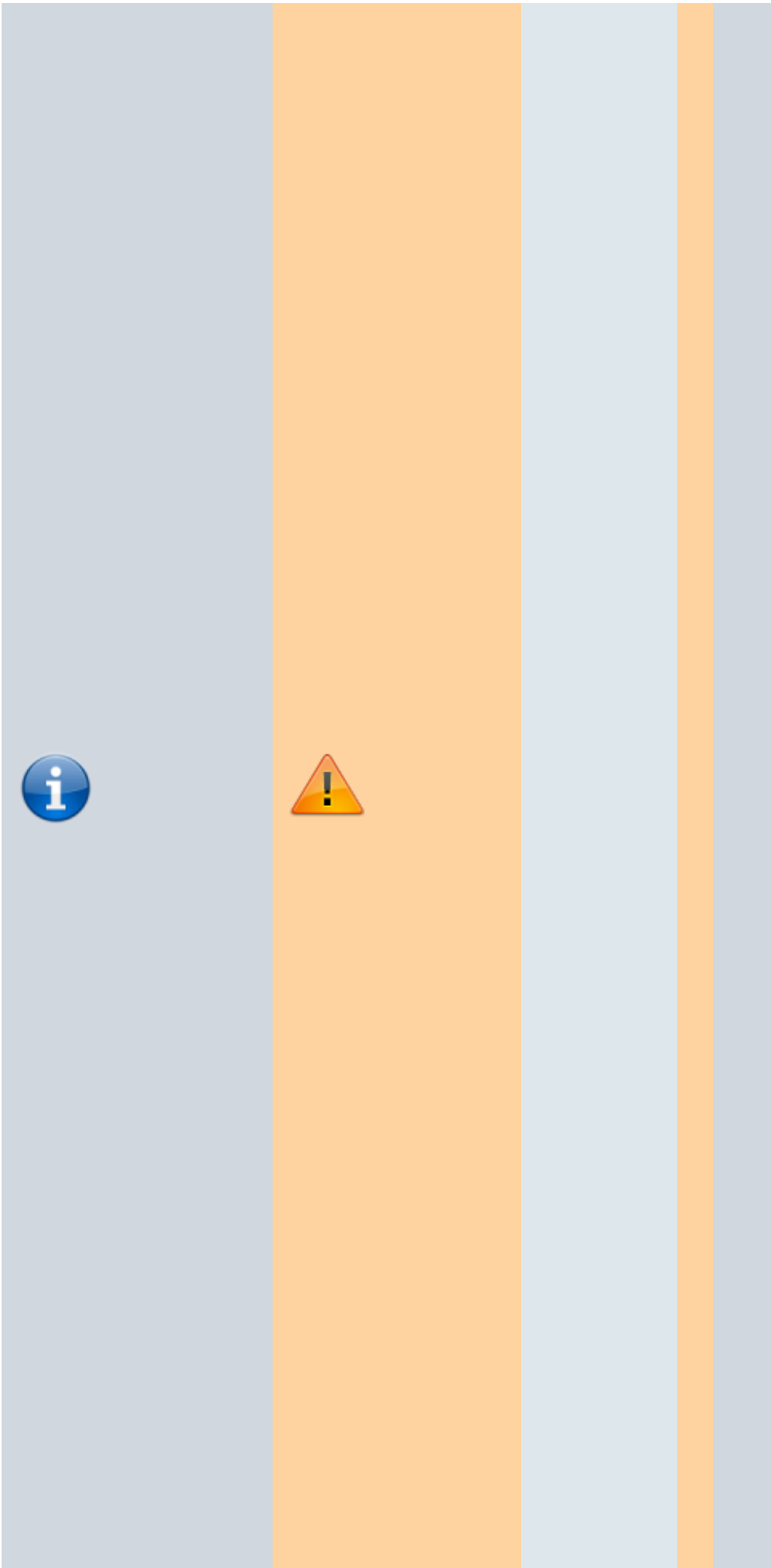
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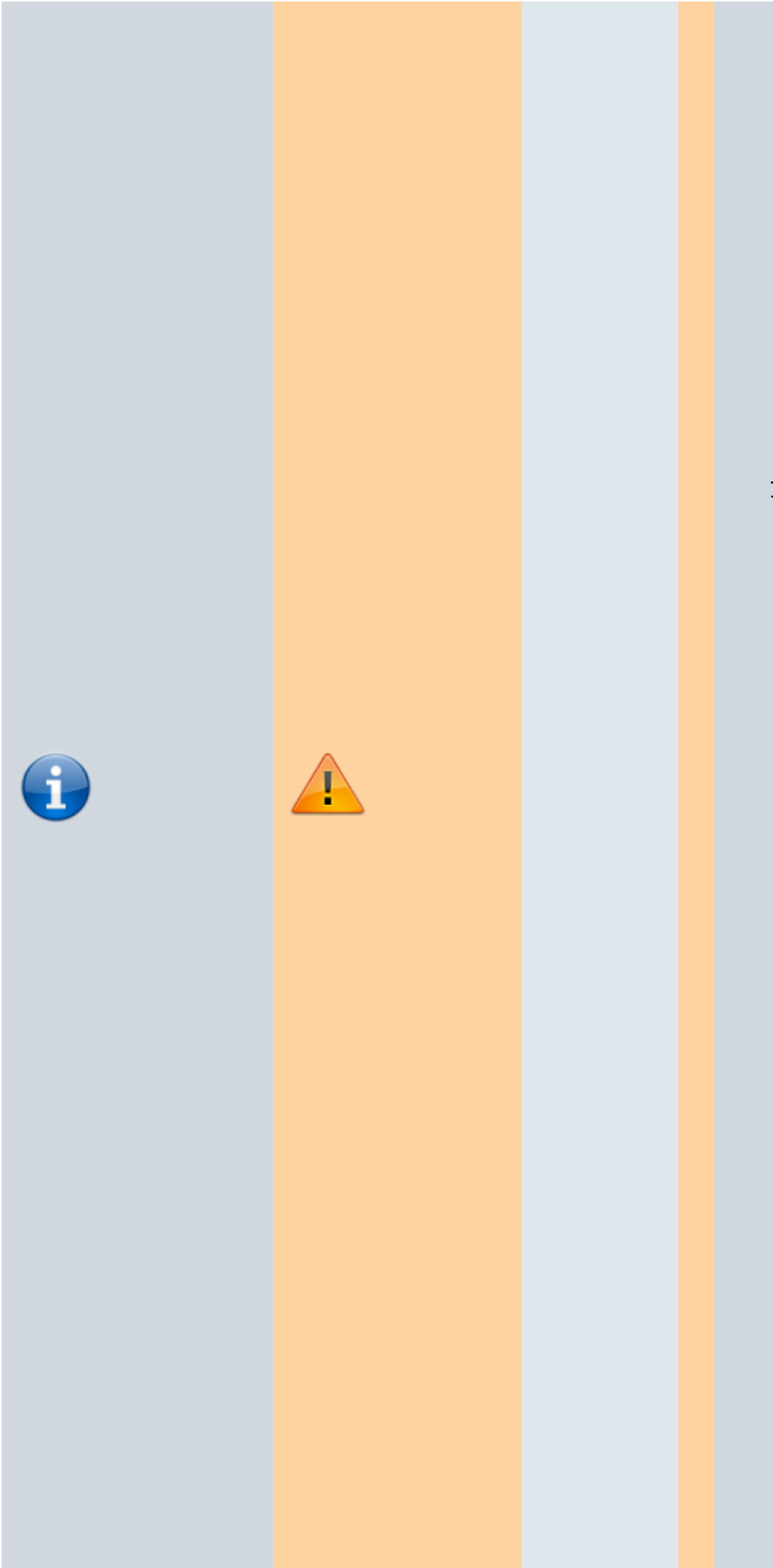
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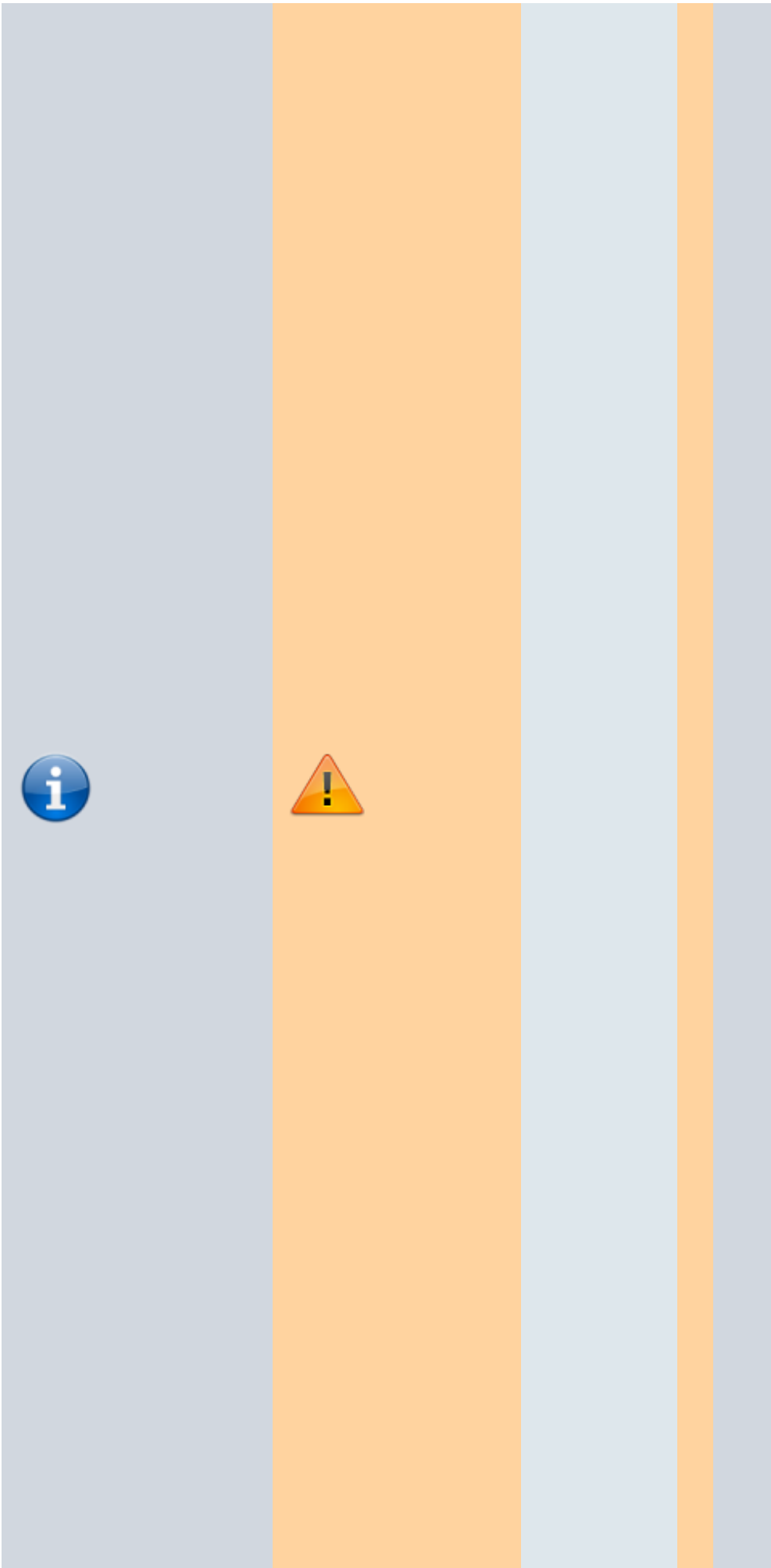


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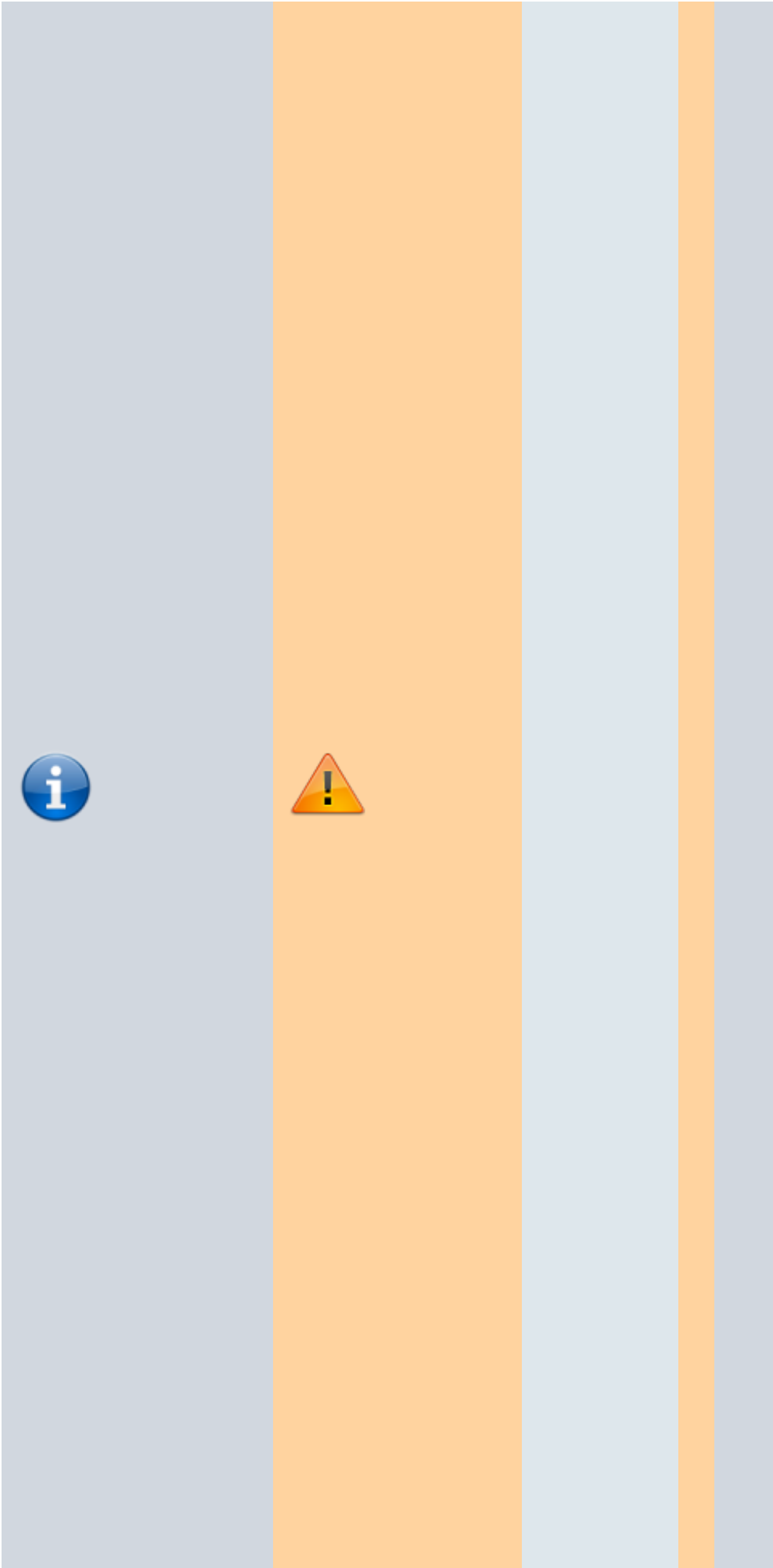


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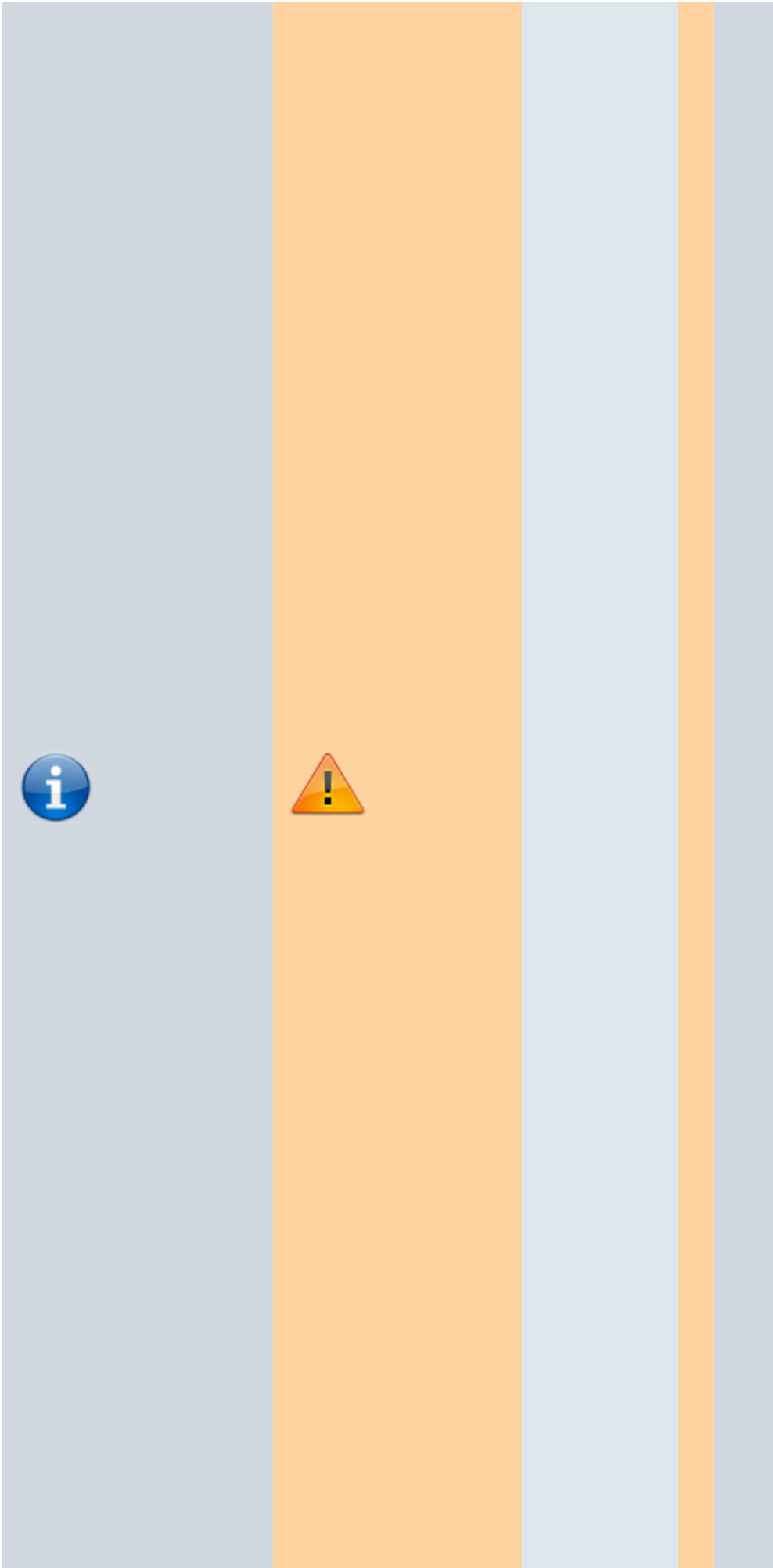


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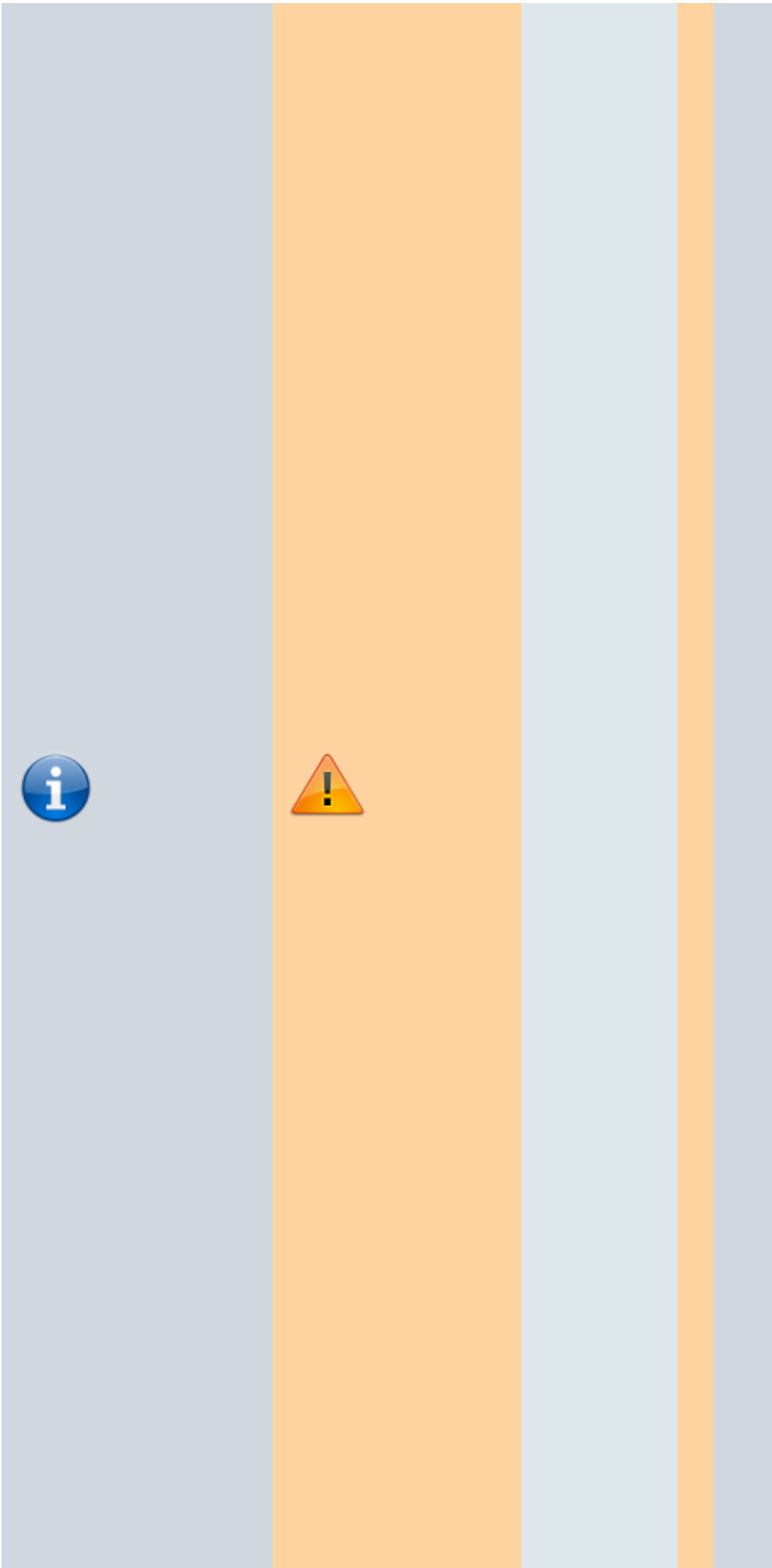
				
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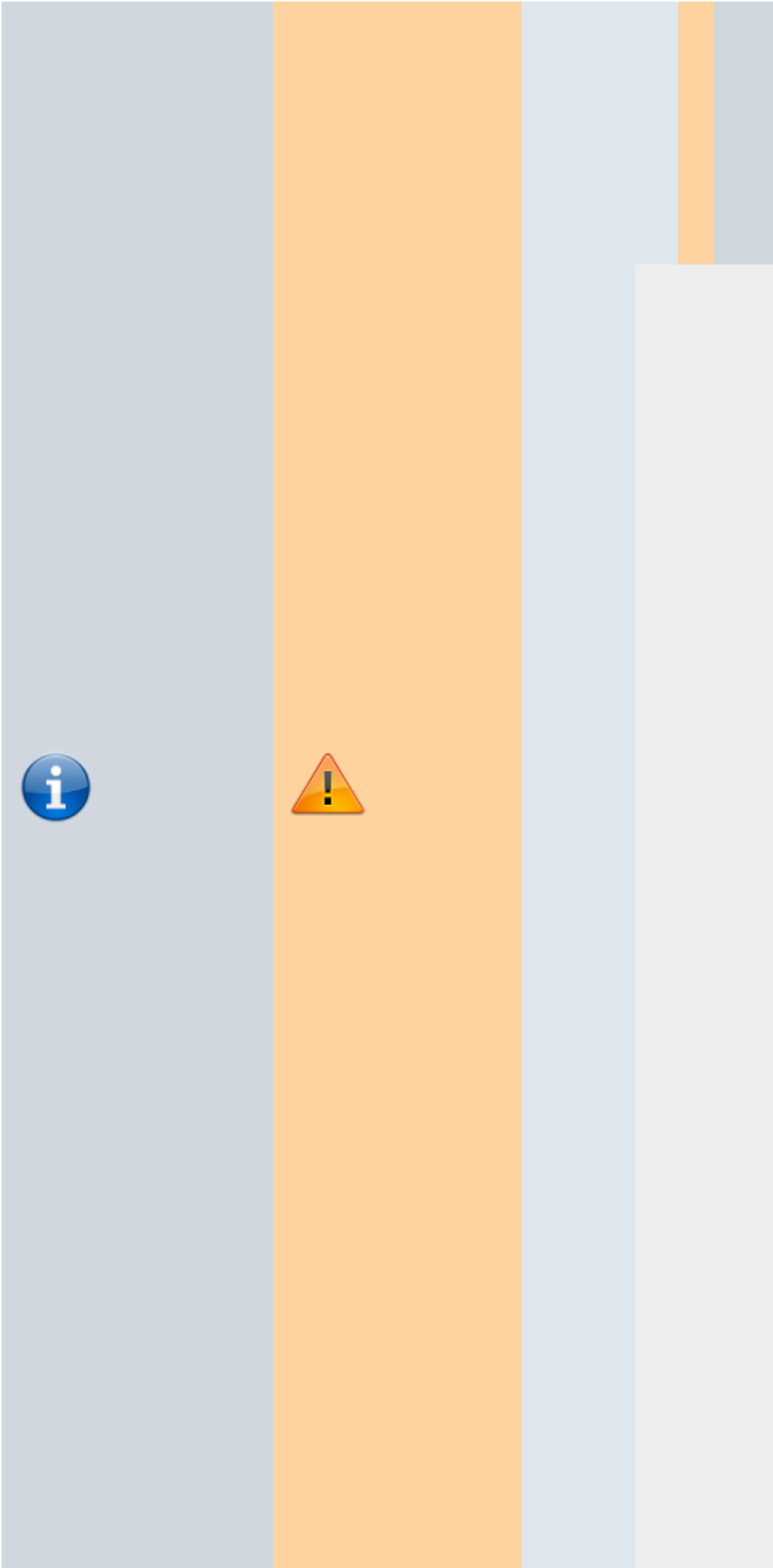
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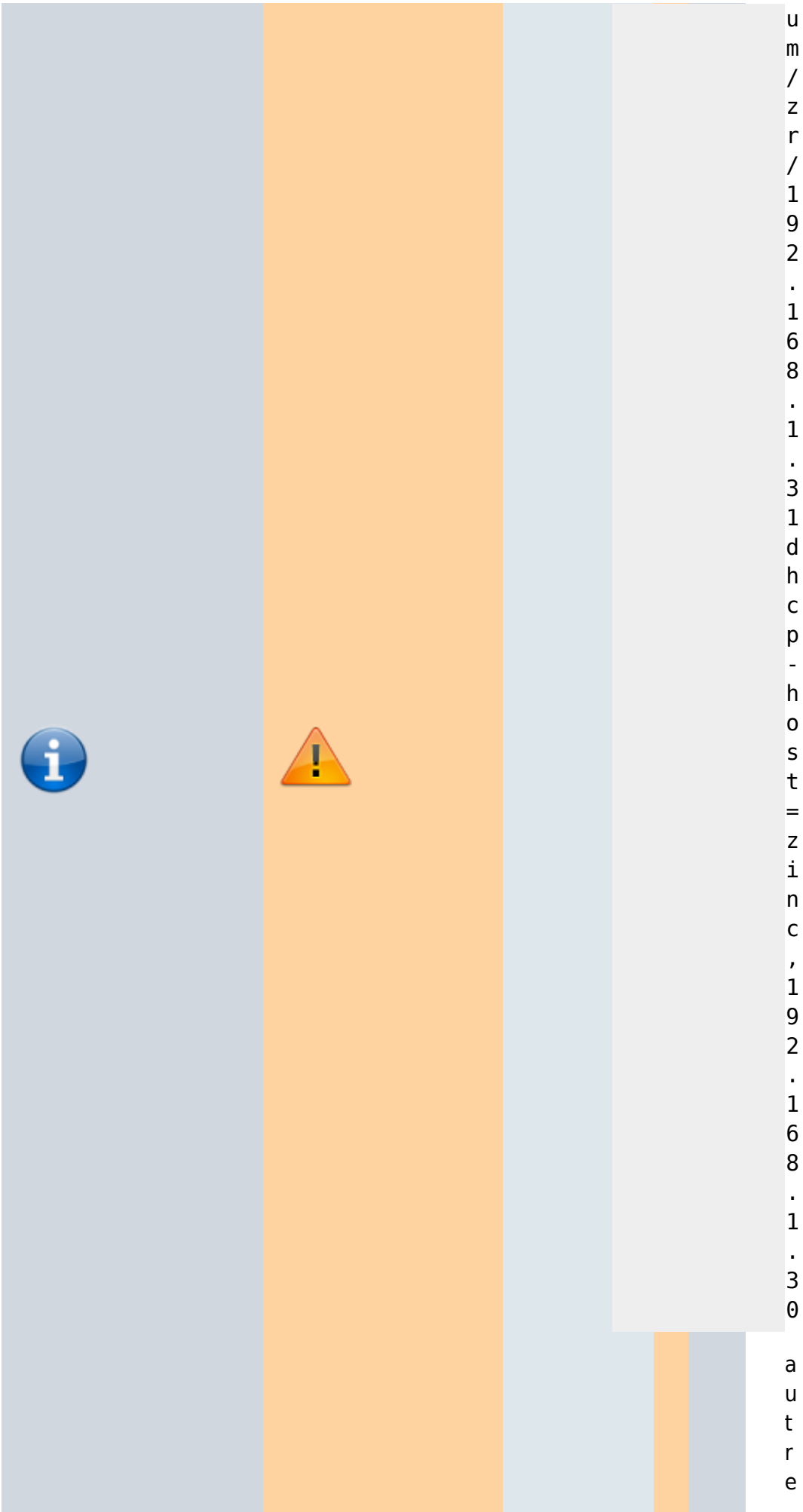


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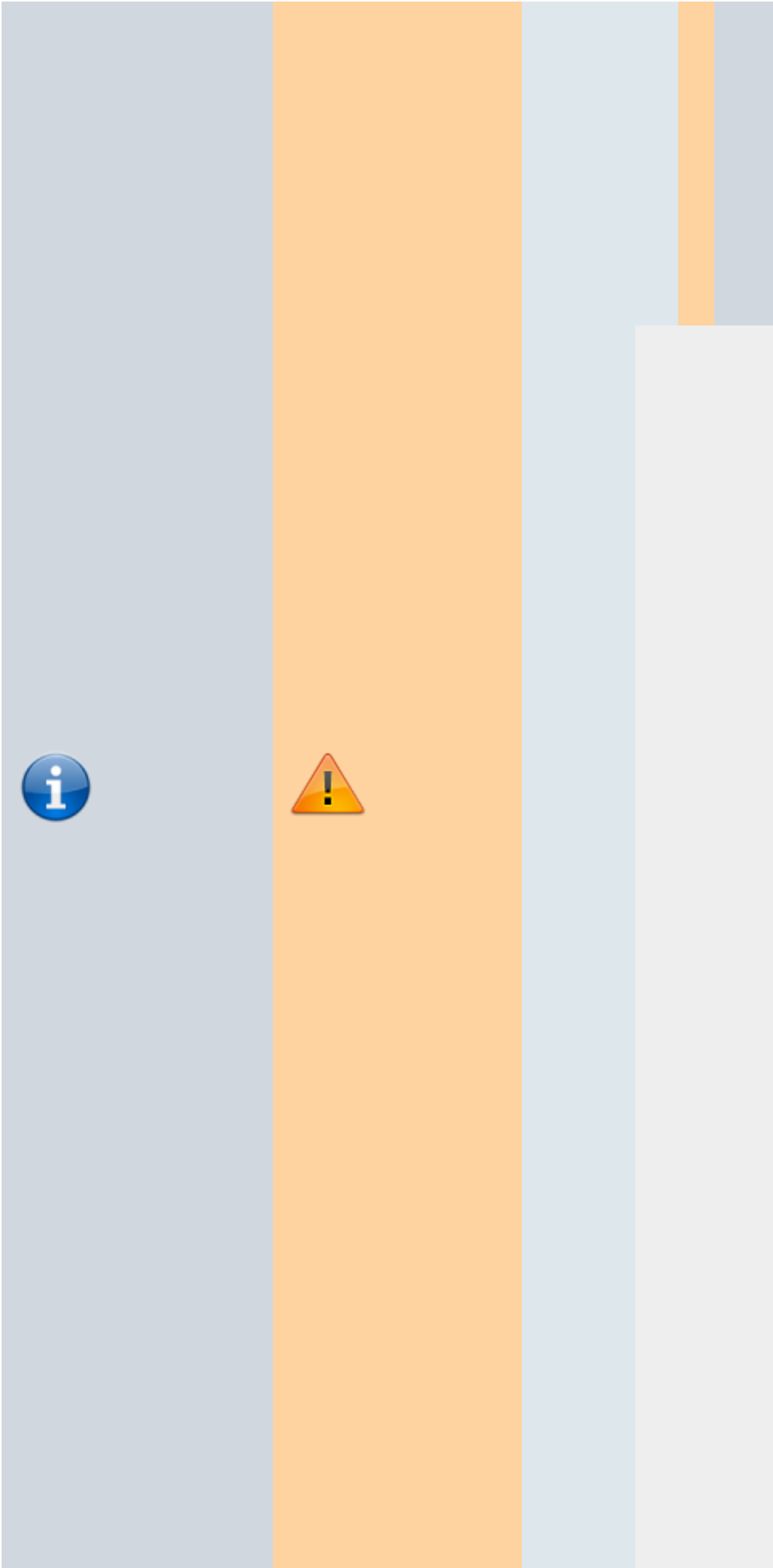
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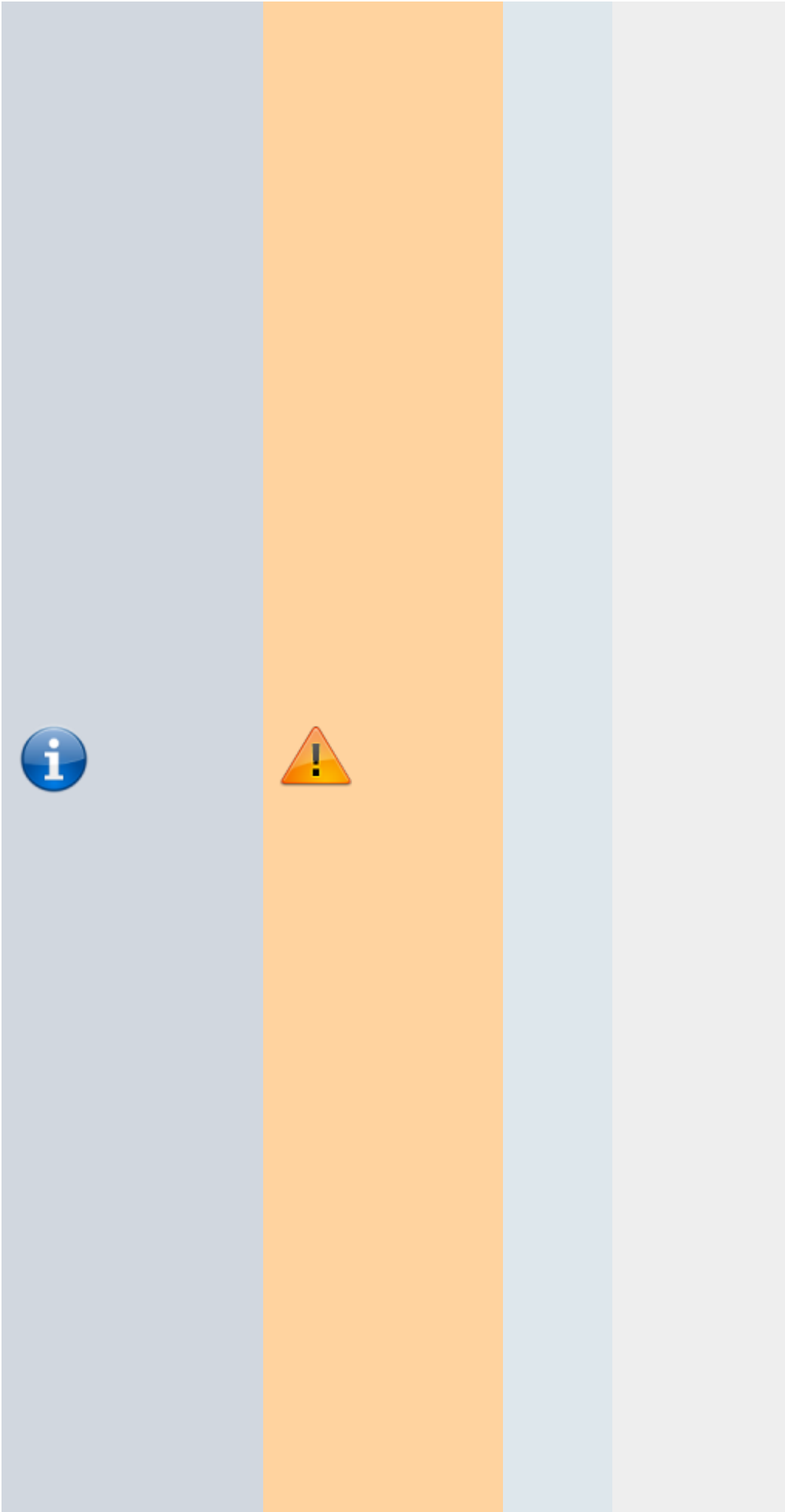
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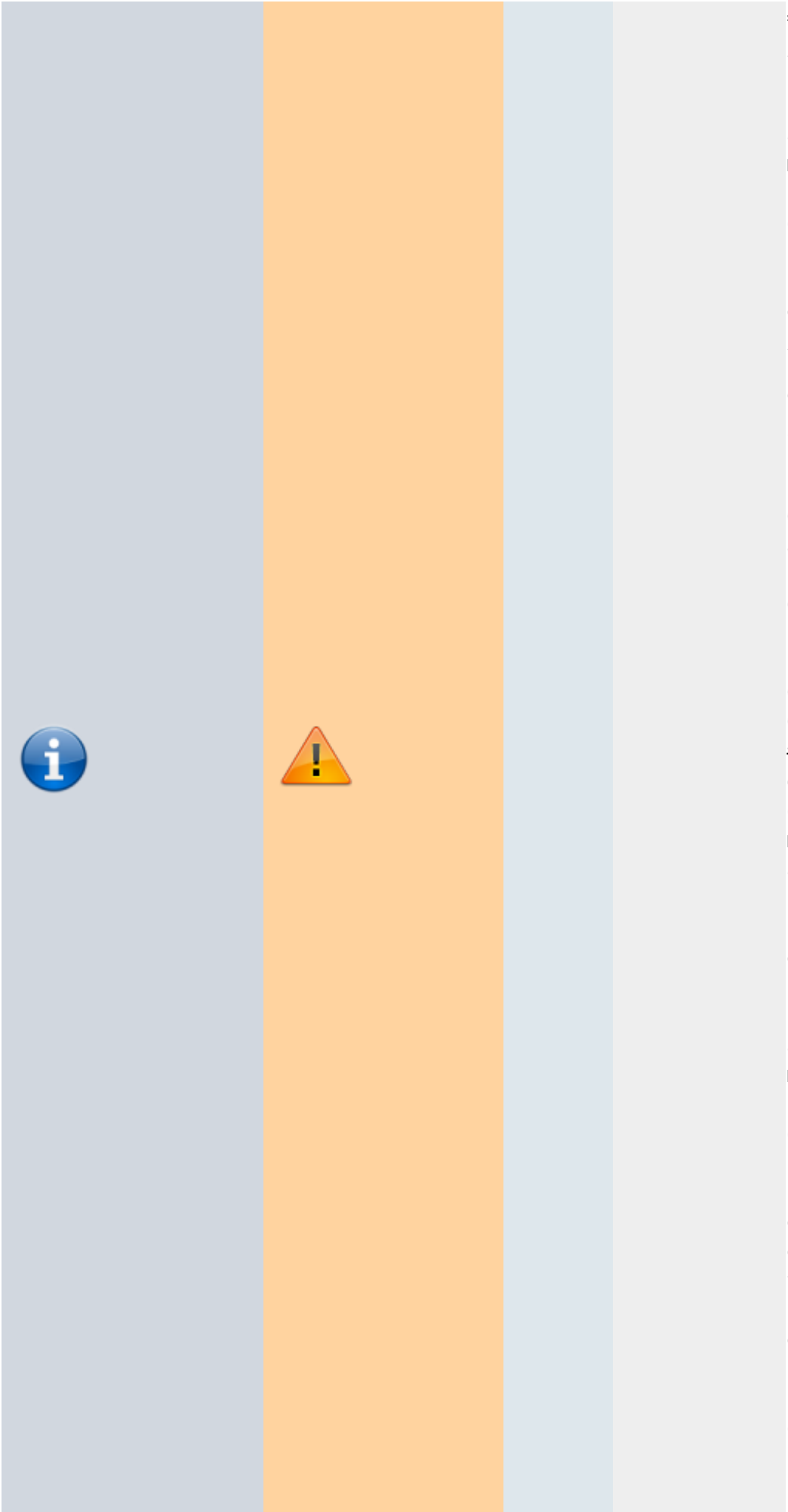


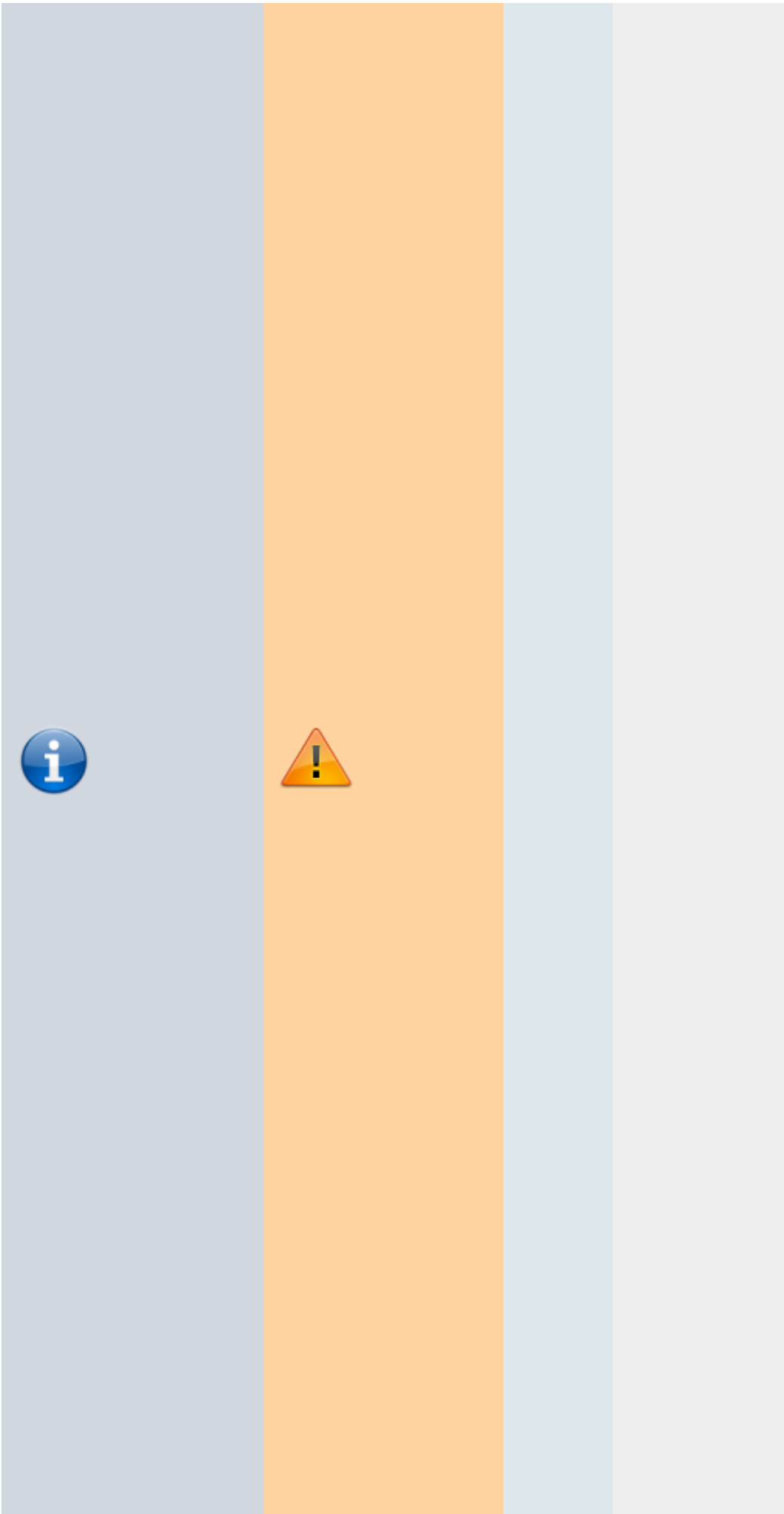
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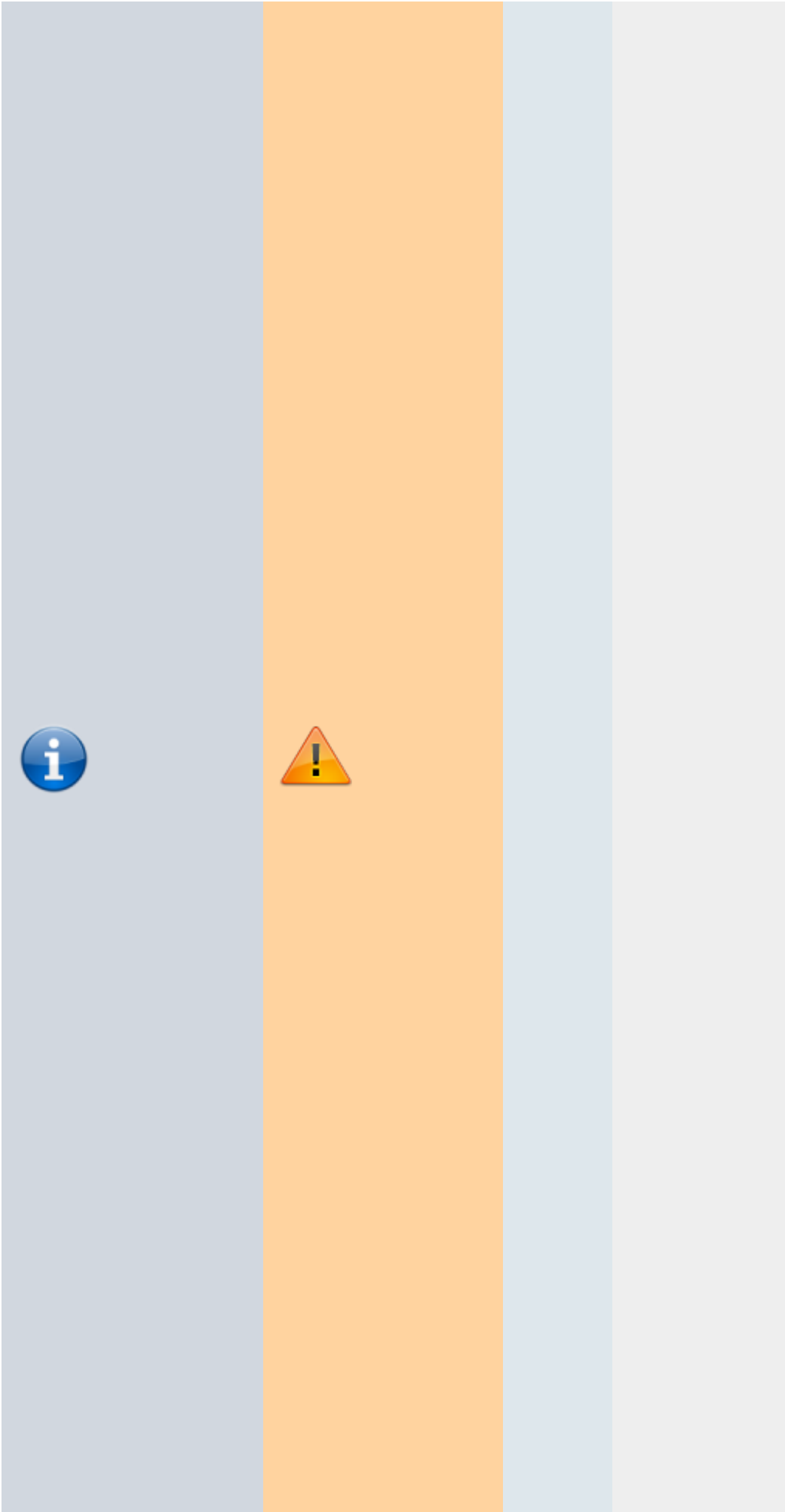


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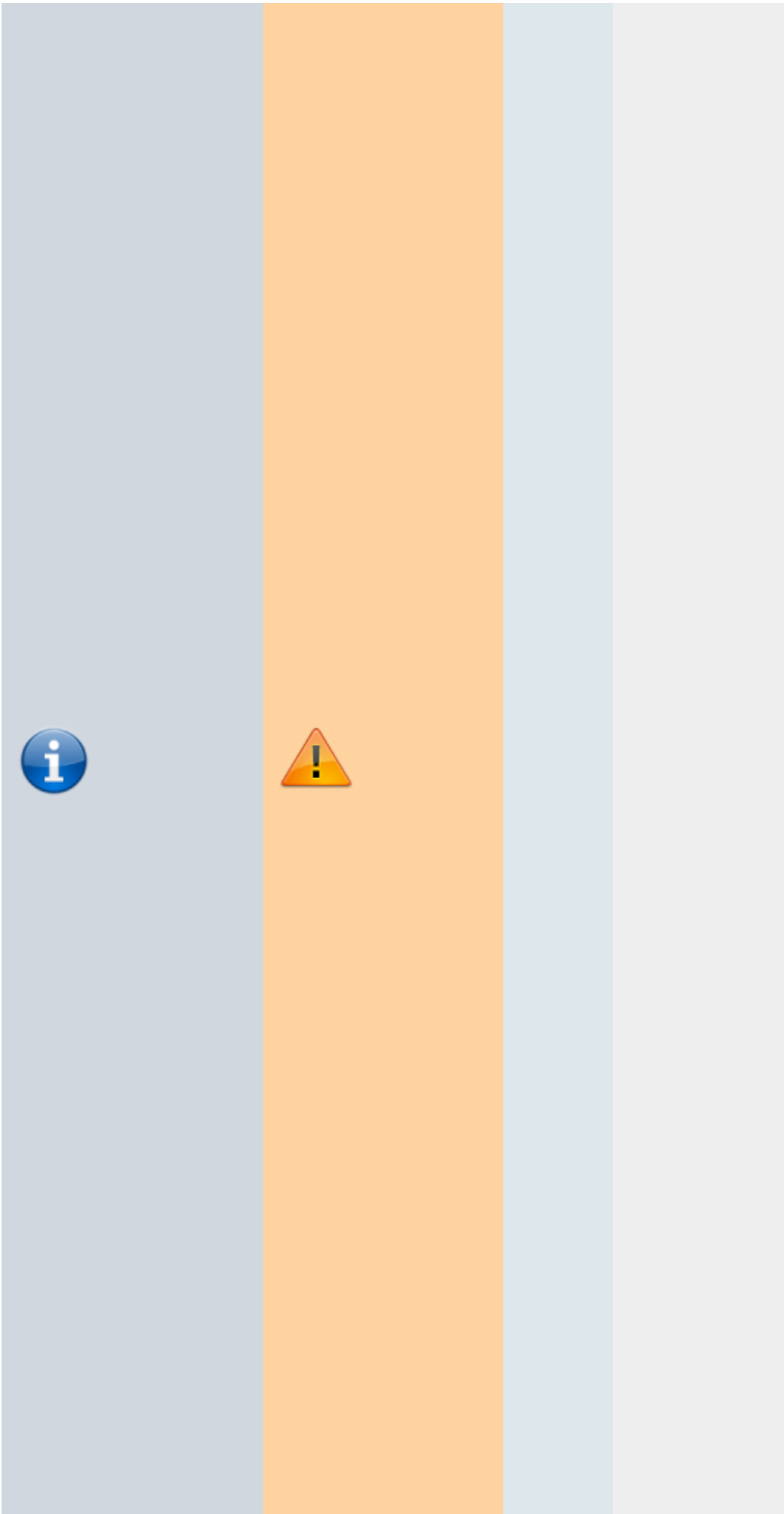


The image shows a vertical bar composed of four distinct colored sections. From left to right: a light blue section containing a blue circular information icon with a white lowercase 'i'; an orange section containing a yellow triangular warning icon with a black exclamation mark; another light blue section; and a light grey section containing vertical text. The text in the grey section reads: - d o m a i n e s * . f r a m b o i s e a d d r e s s = / c h a t e a u / 1 9 2 . 1 6 8 . 0 . 1 # d o



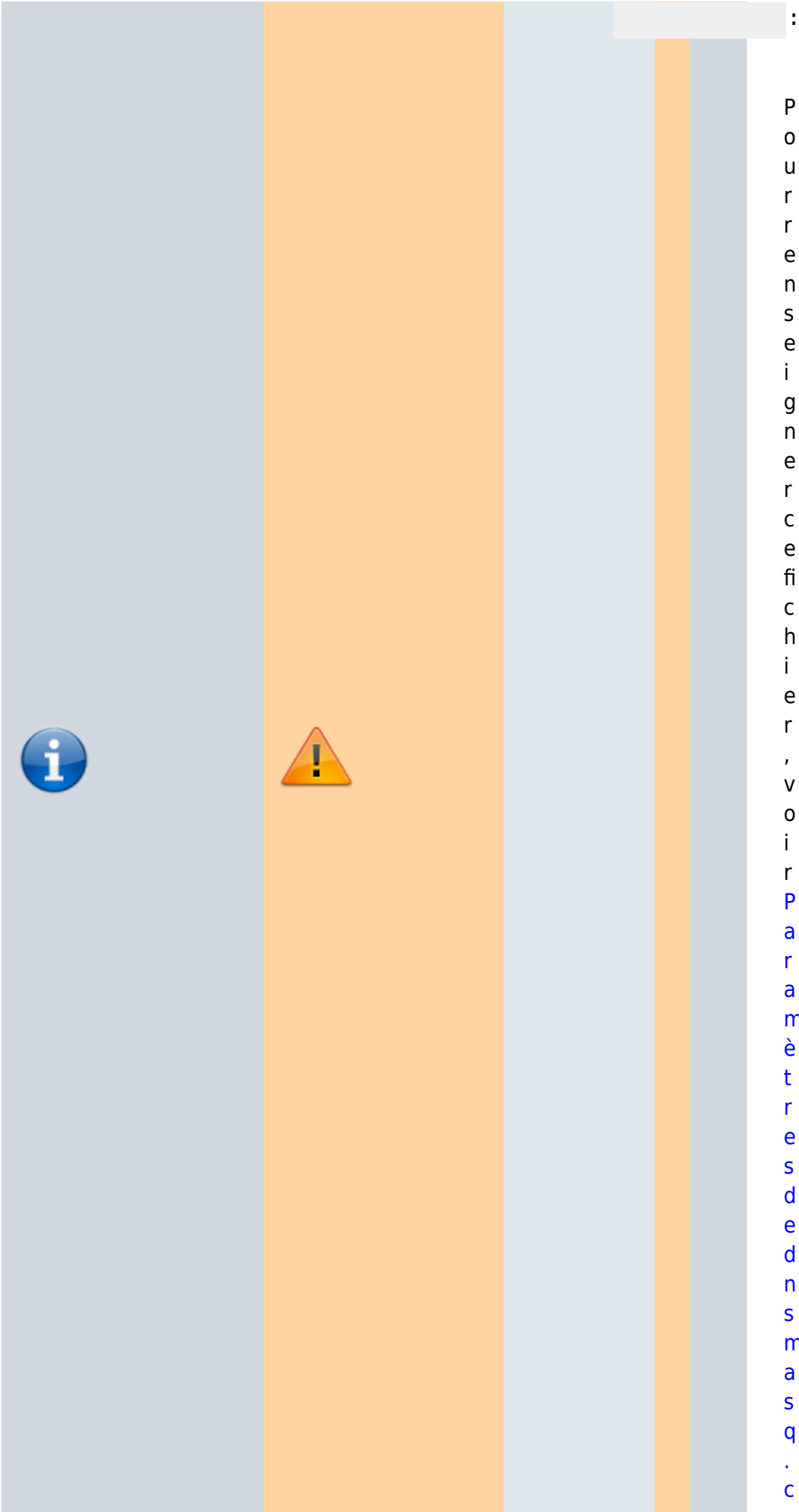
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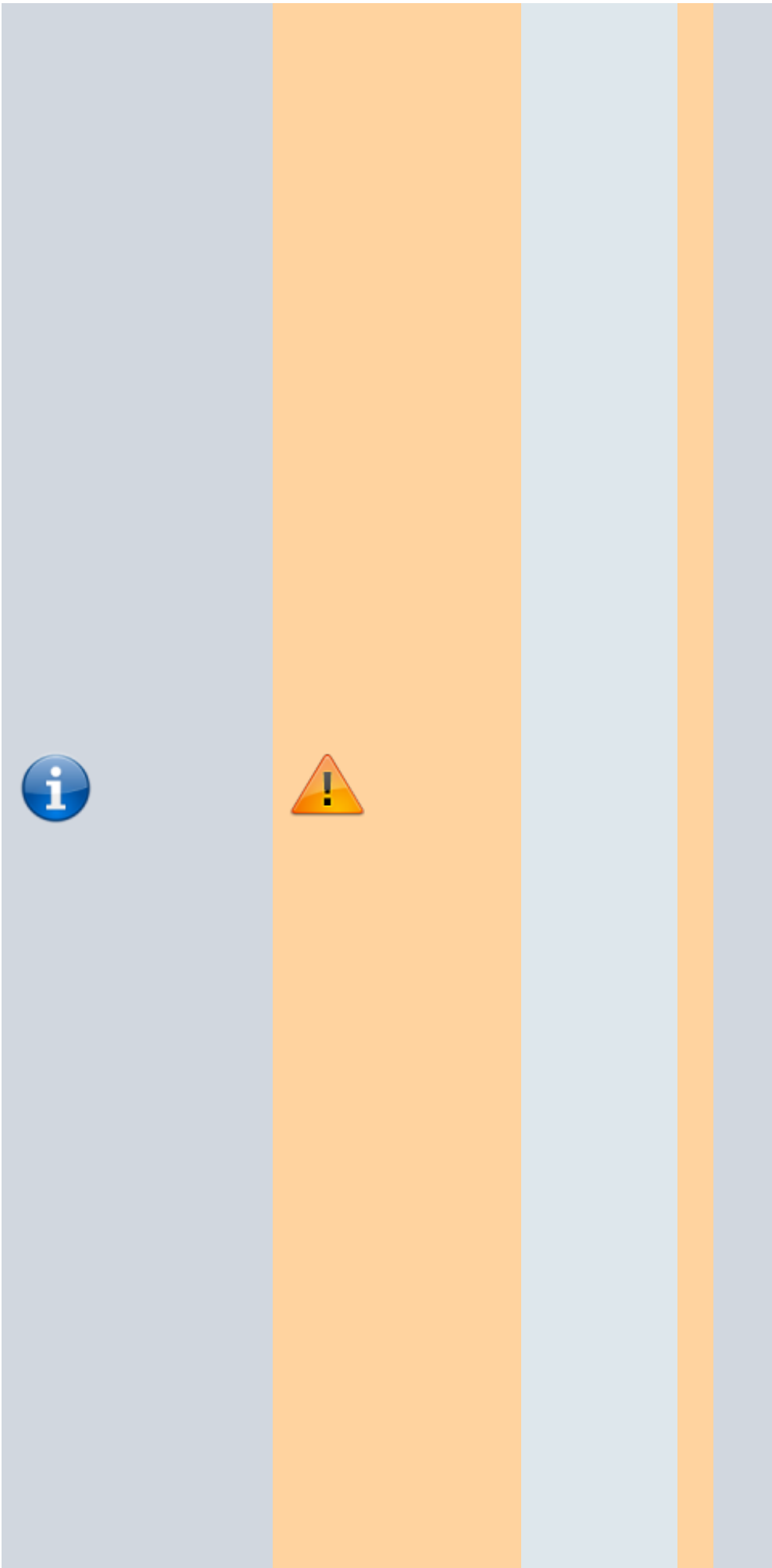
The diagram consists of four vertical bars of different colors: light blue, orange, light blue, and light grey. The orange bar in the center contains a warning icon (a yellow triangle with a black exclamation mark). The light grey bar on the far right contains a vertical list of domain names: .t, r, i, a, n, o, n, a, d, d, r, e, s, s, =, /, f, r, a, m, b, o, i, s, e, .l, a, n, /, 1, 9, 2, ., 1, 6, 8, ., 0, ., 1, 0, 0, #, d, o, m, a, i, n.



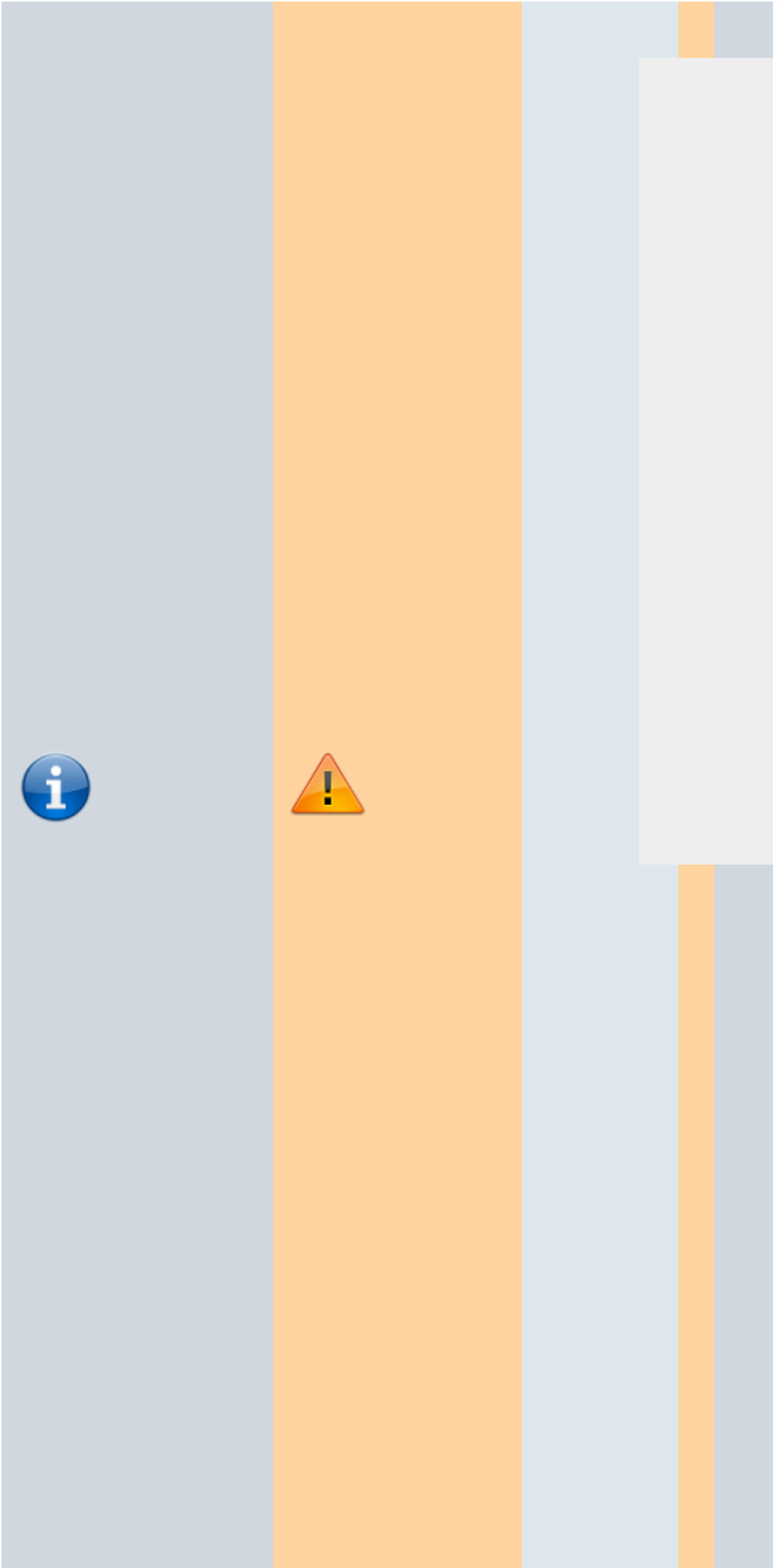
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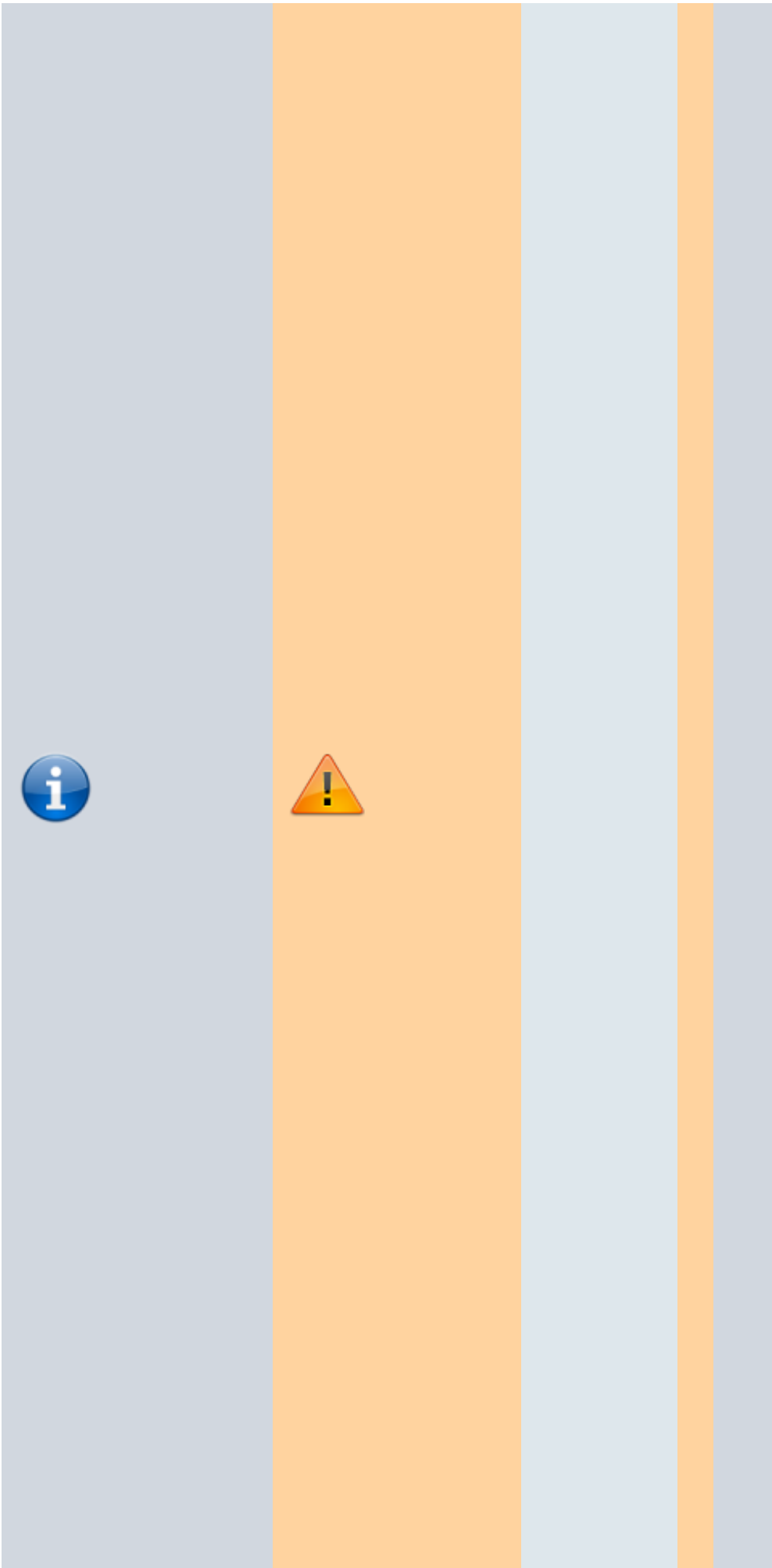


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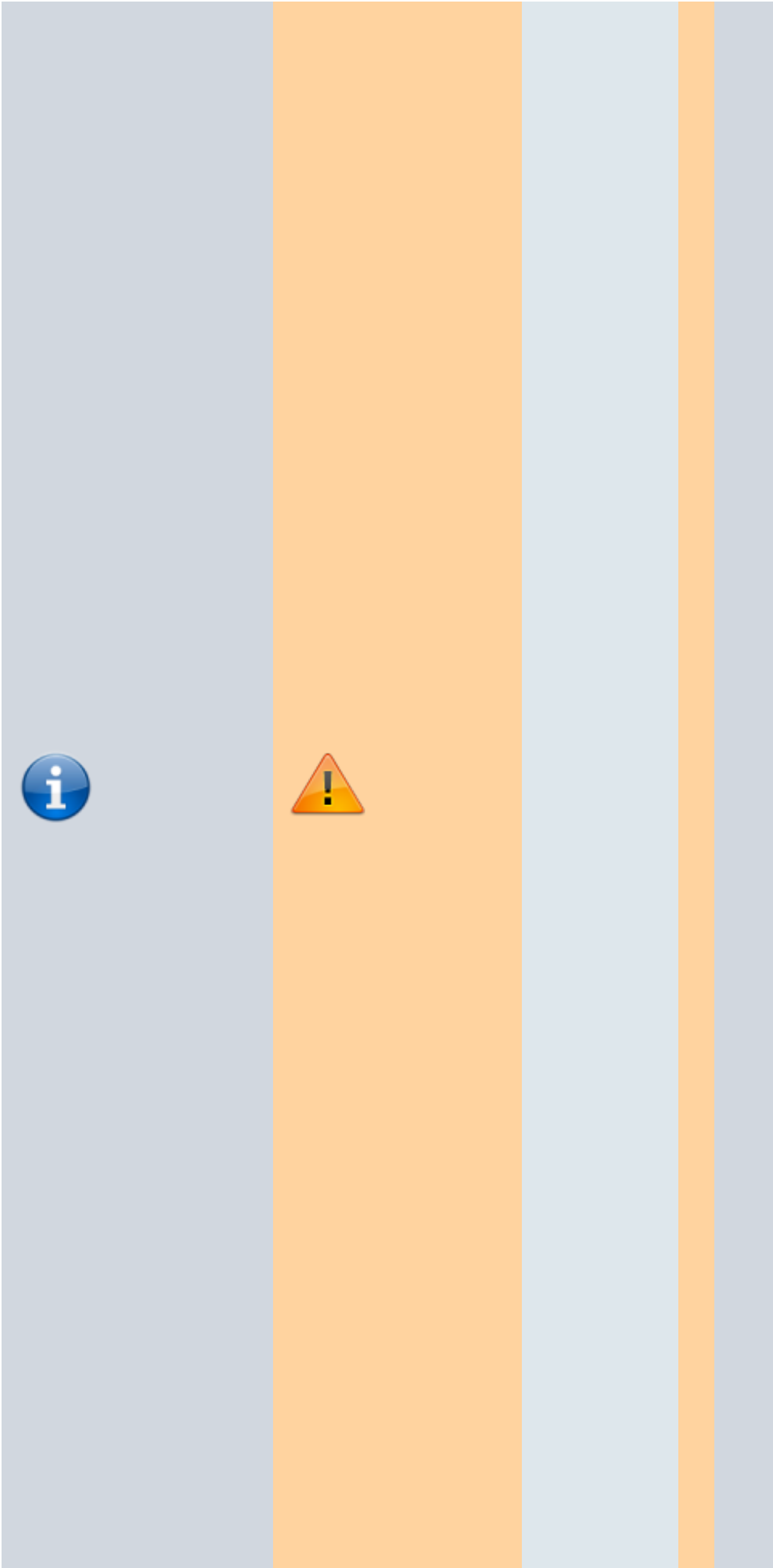


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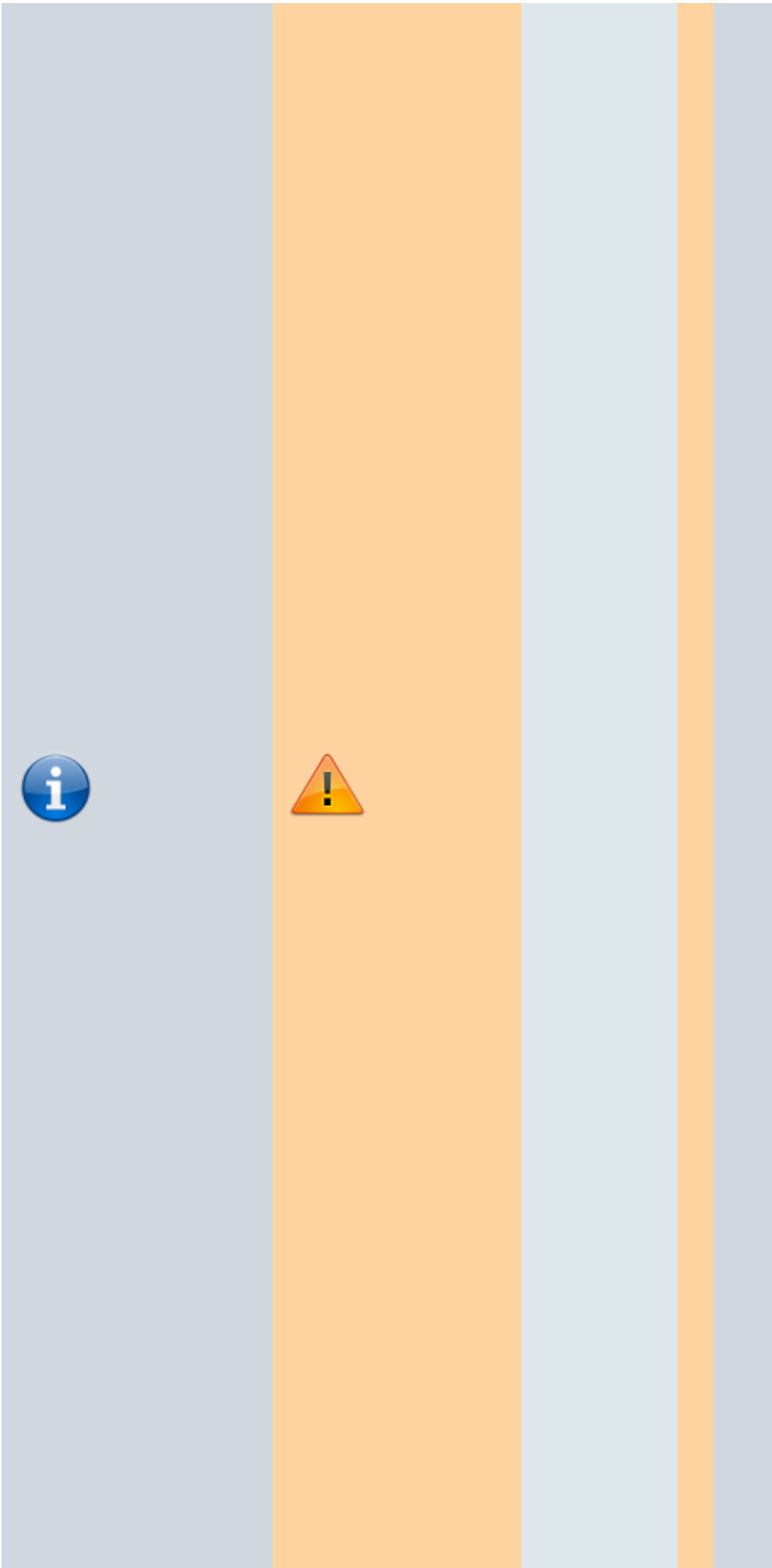
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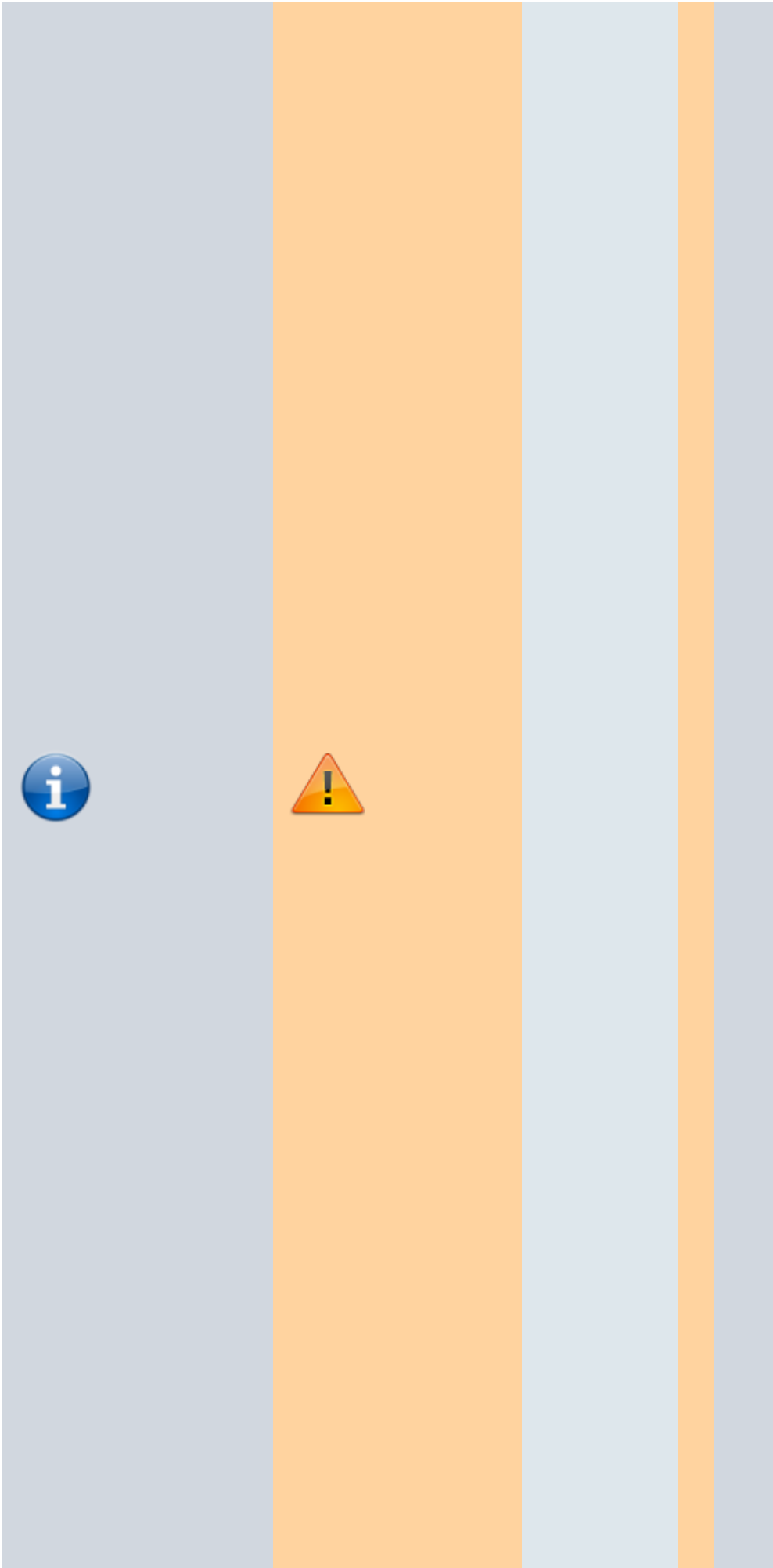
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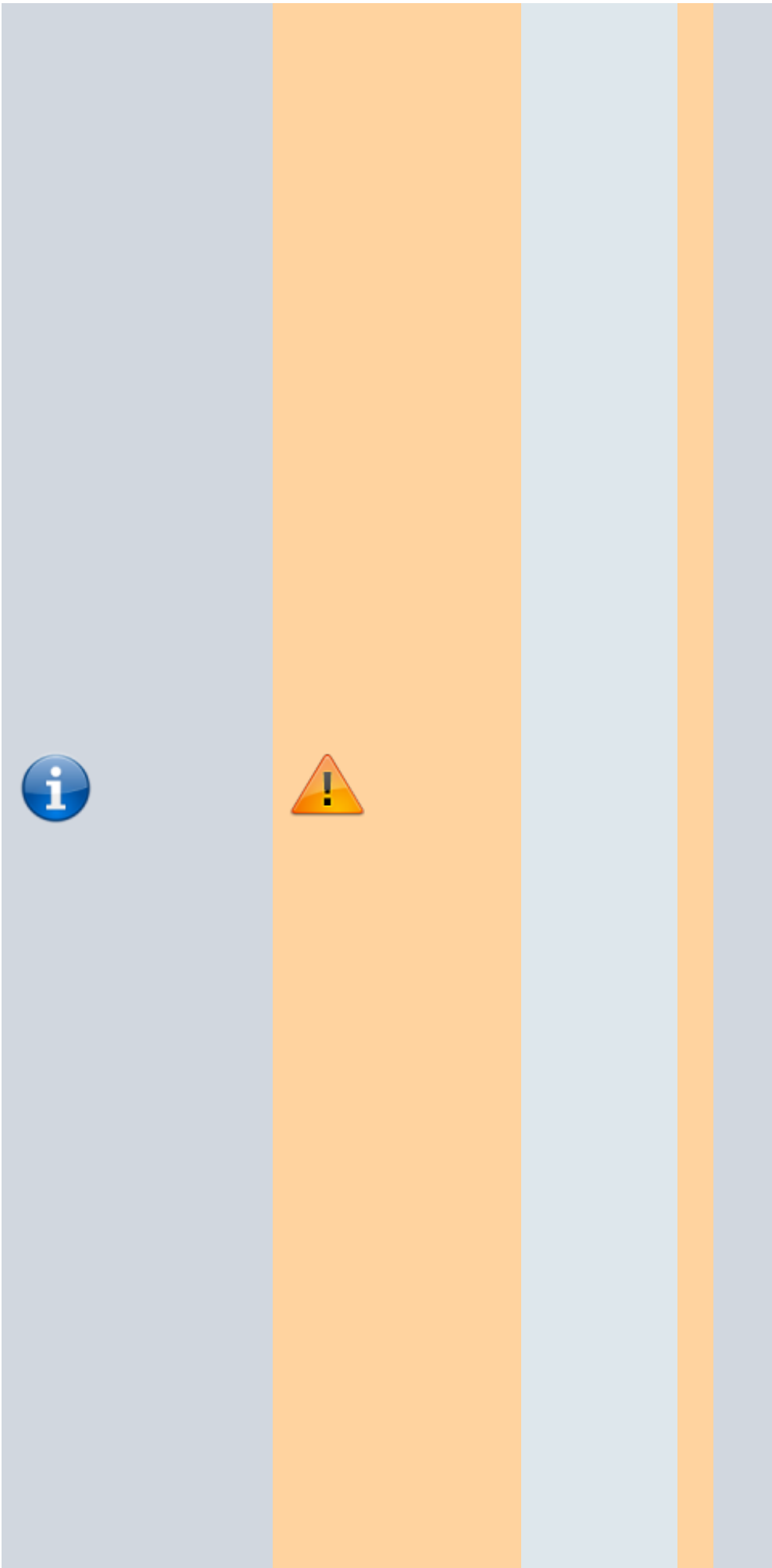
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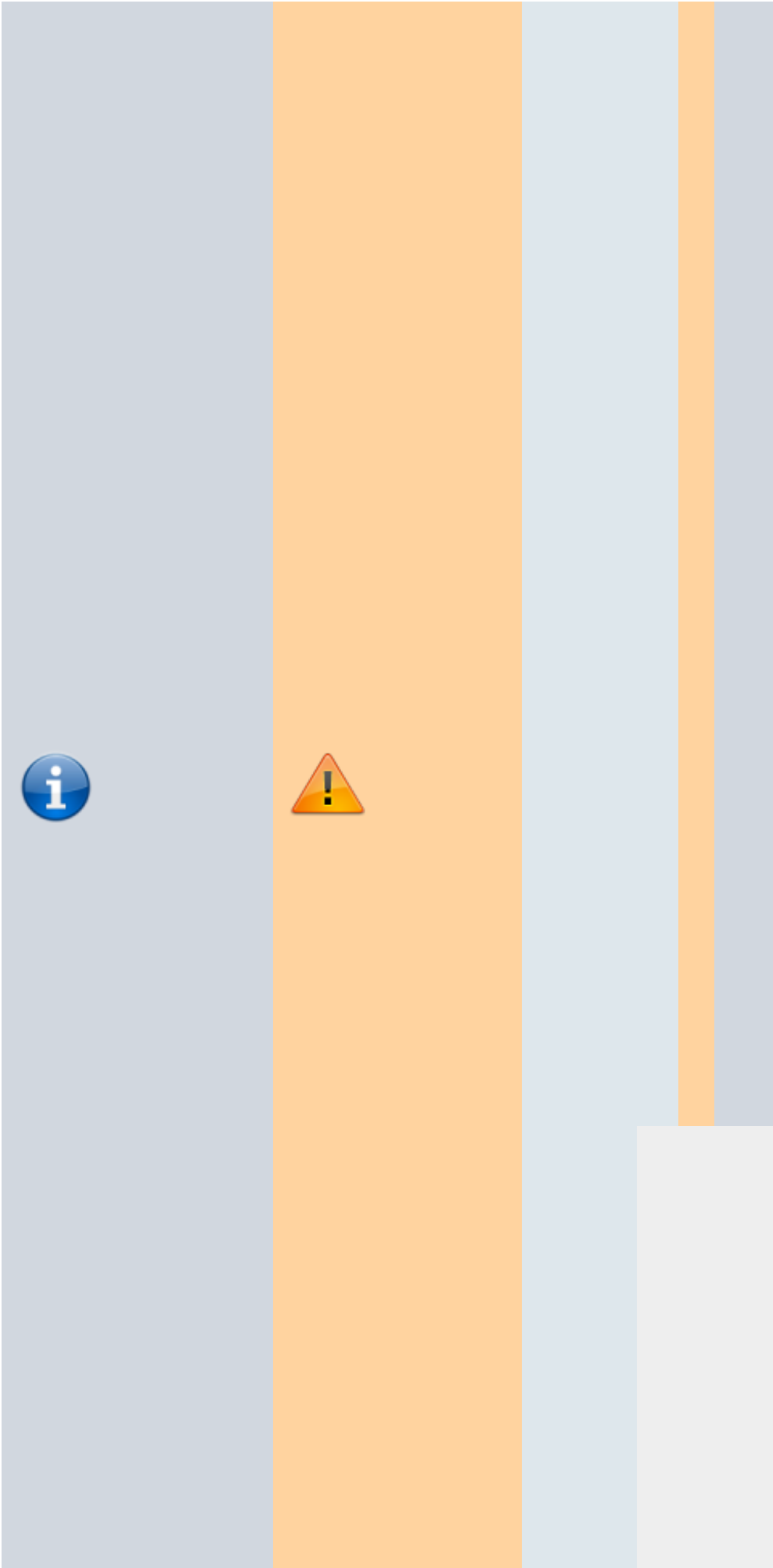
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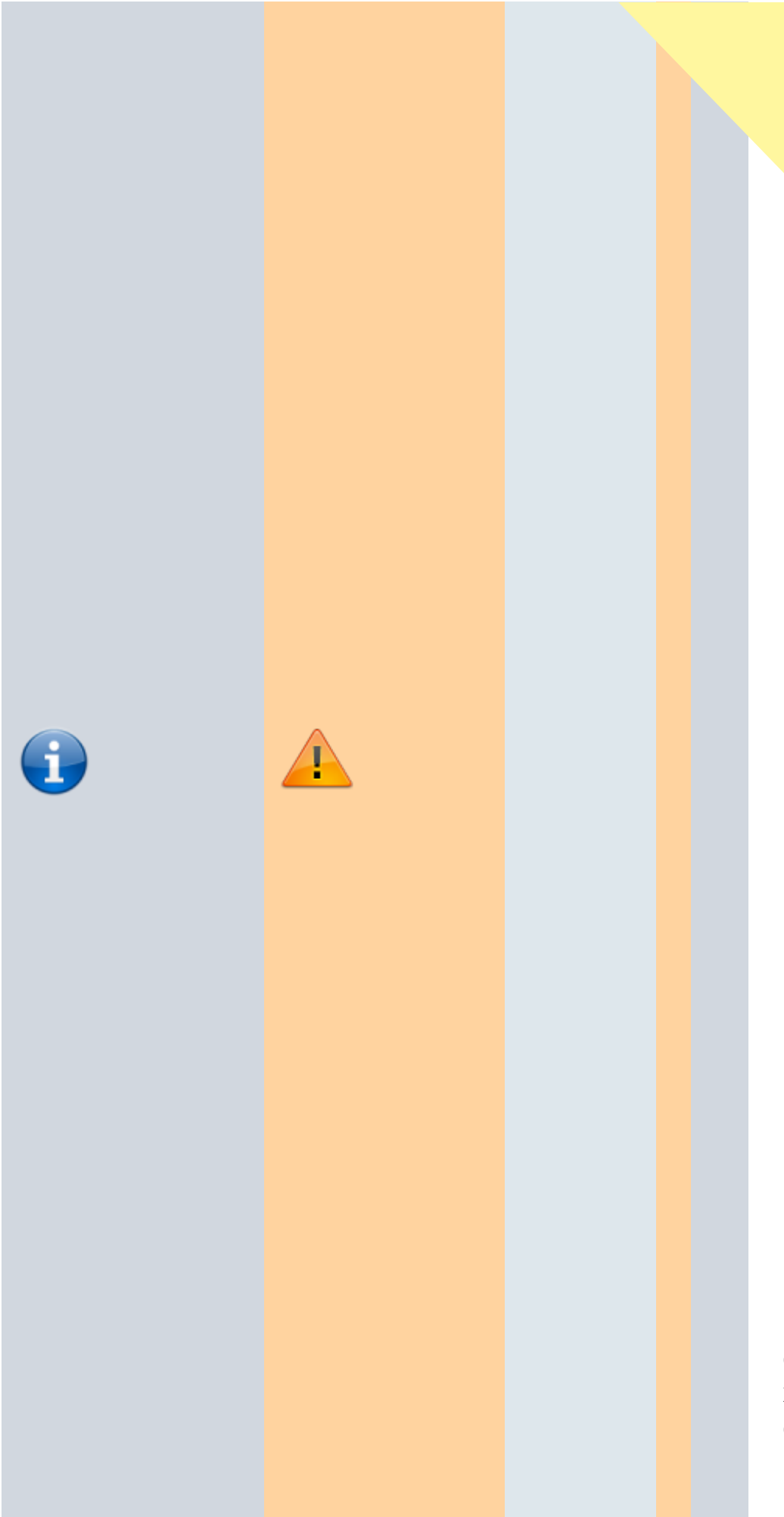
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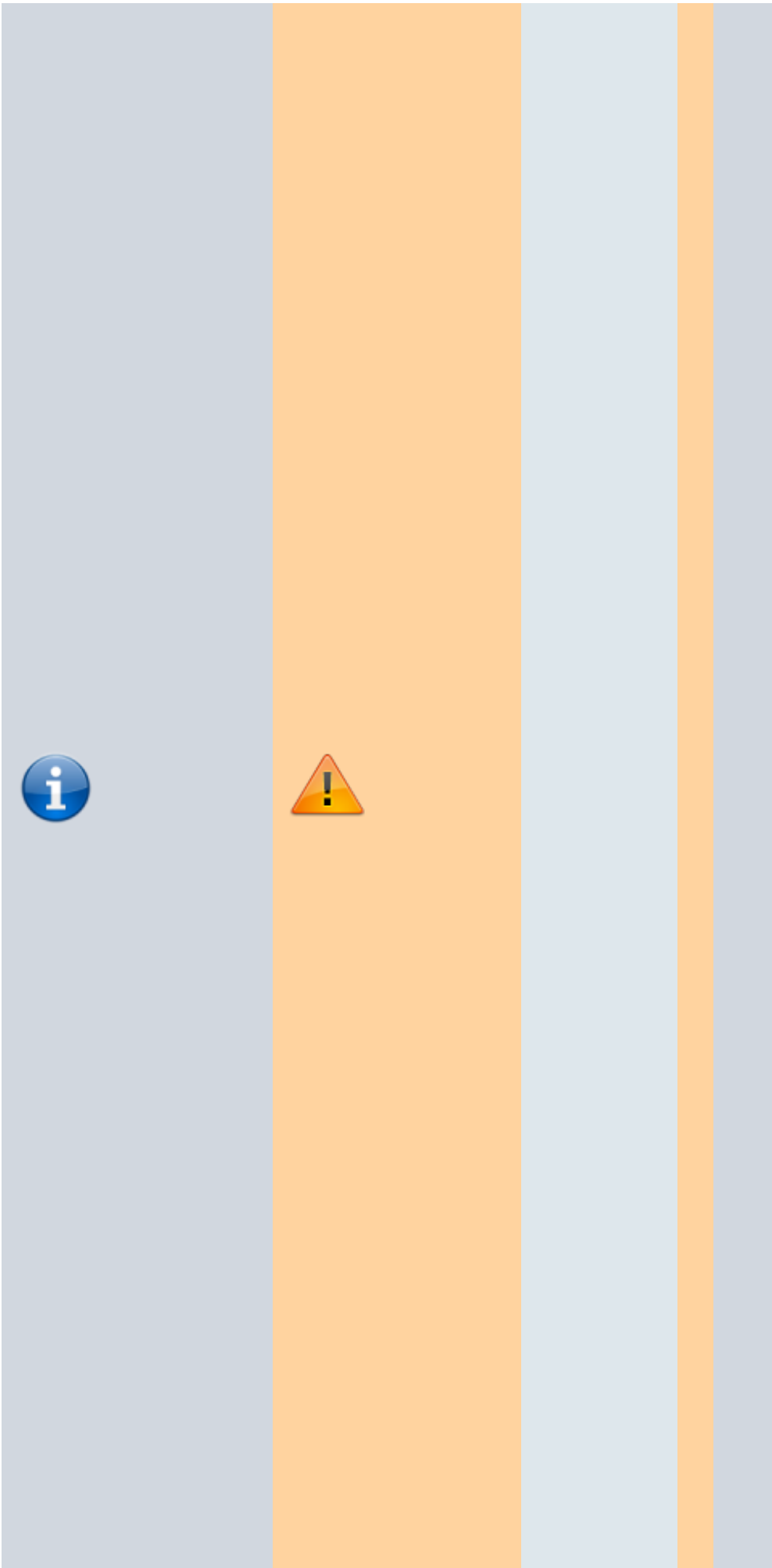
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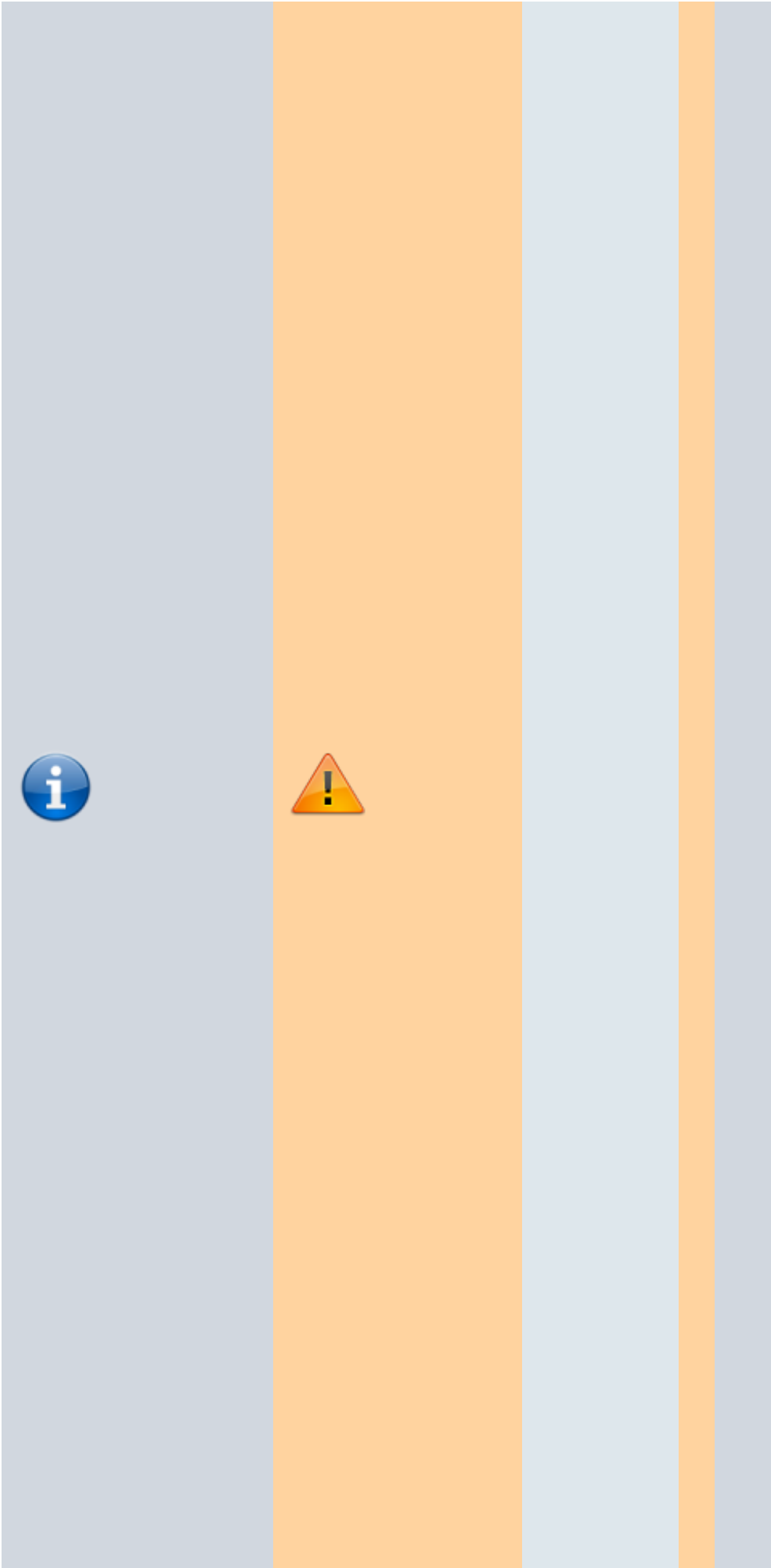
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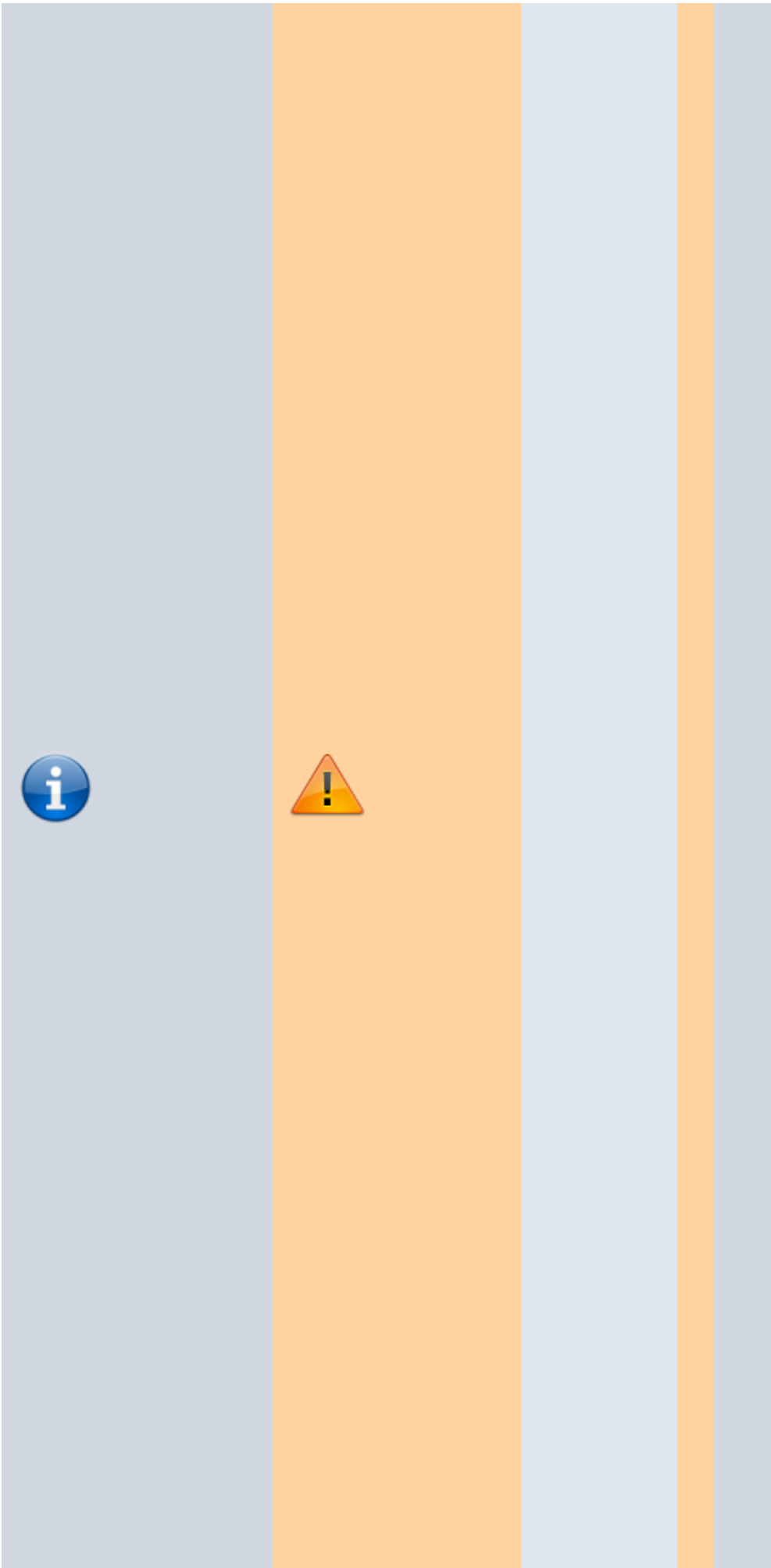
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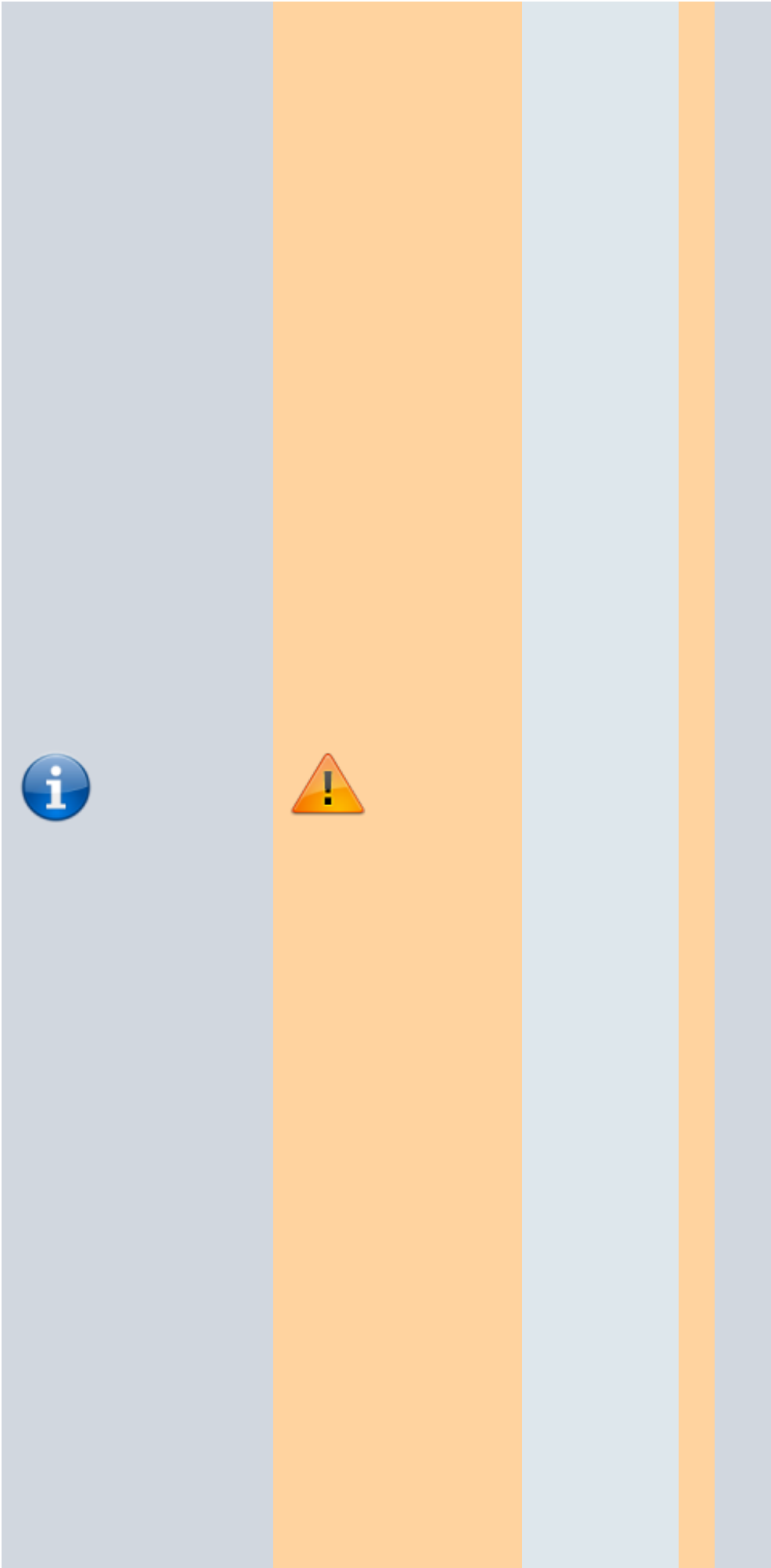
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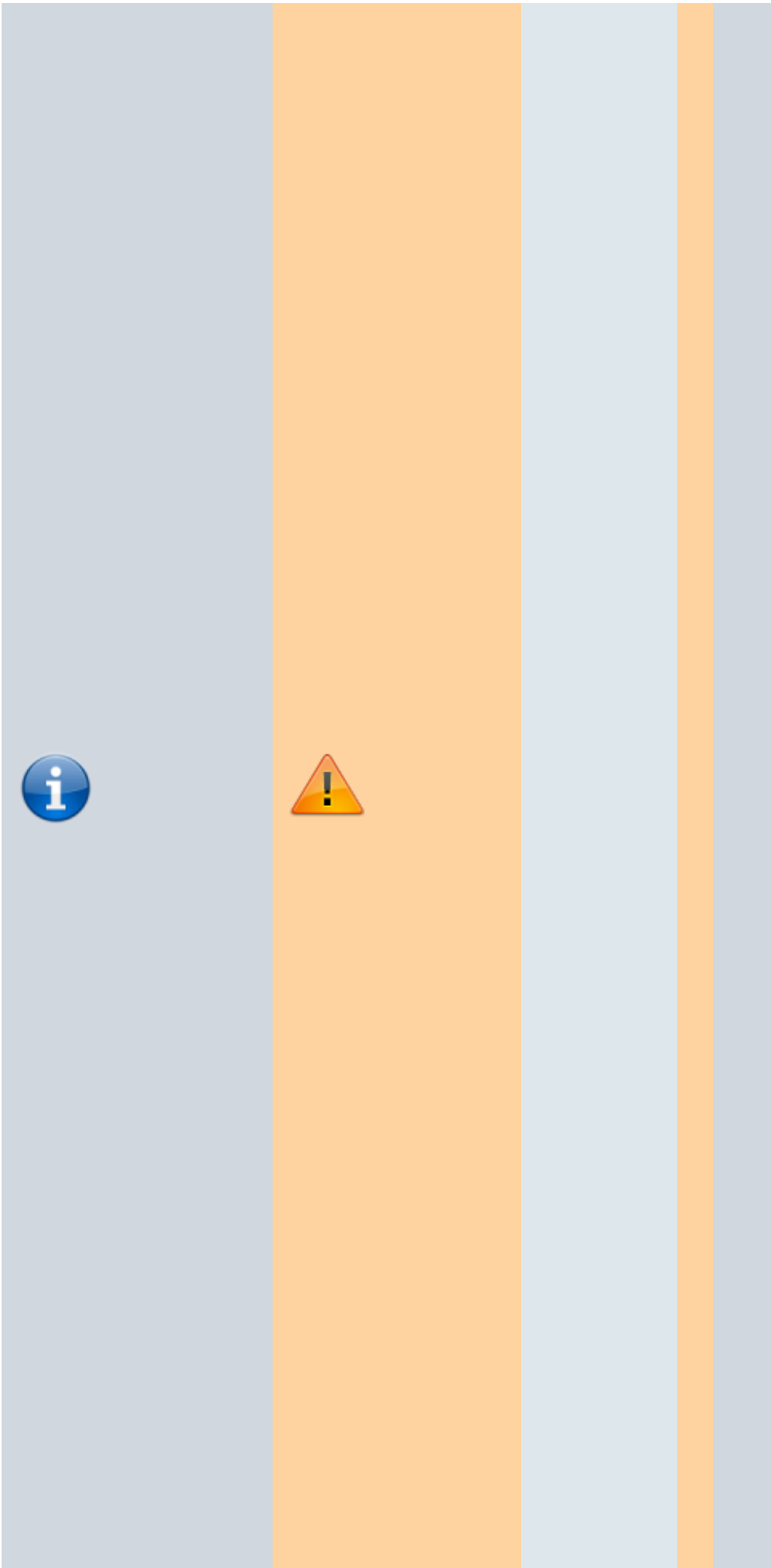


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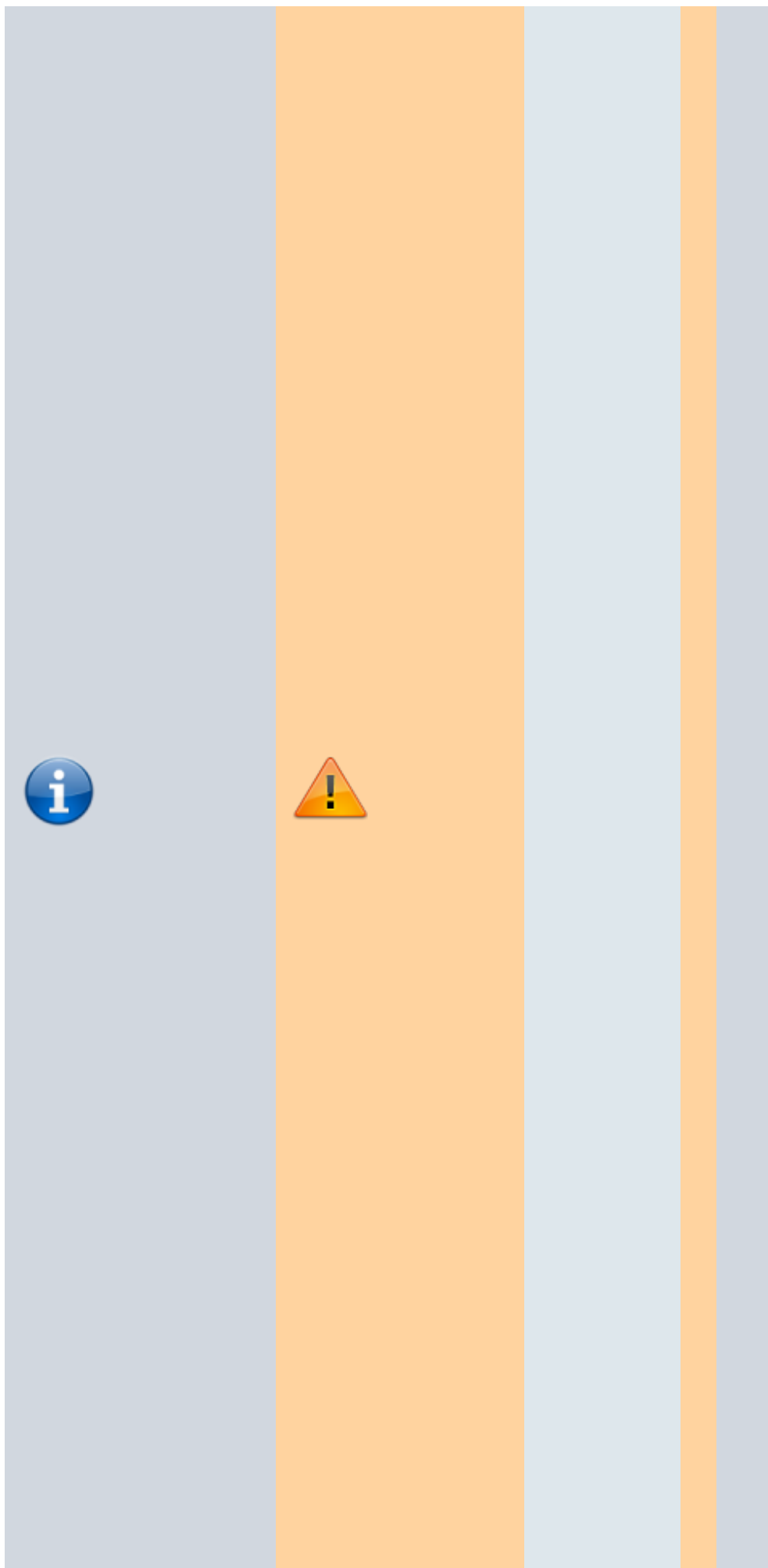


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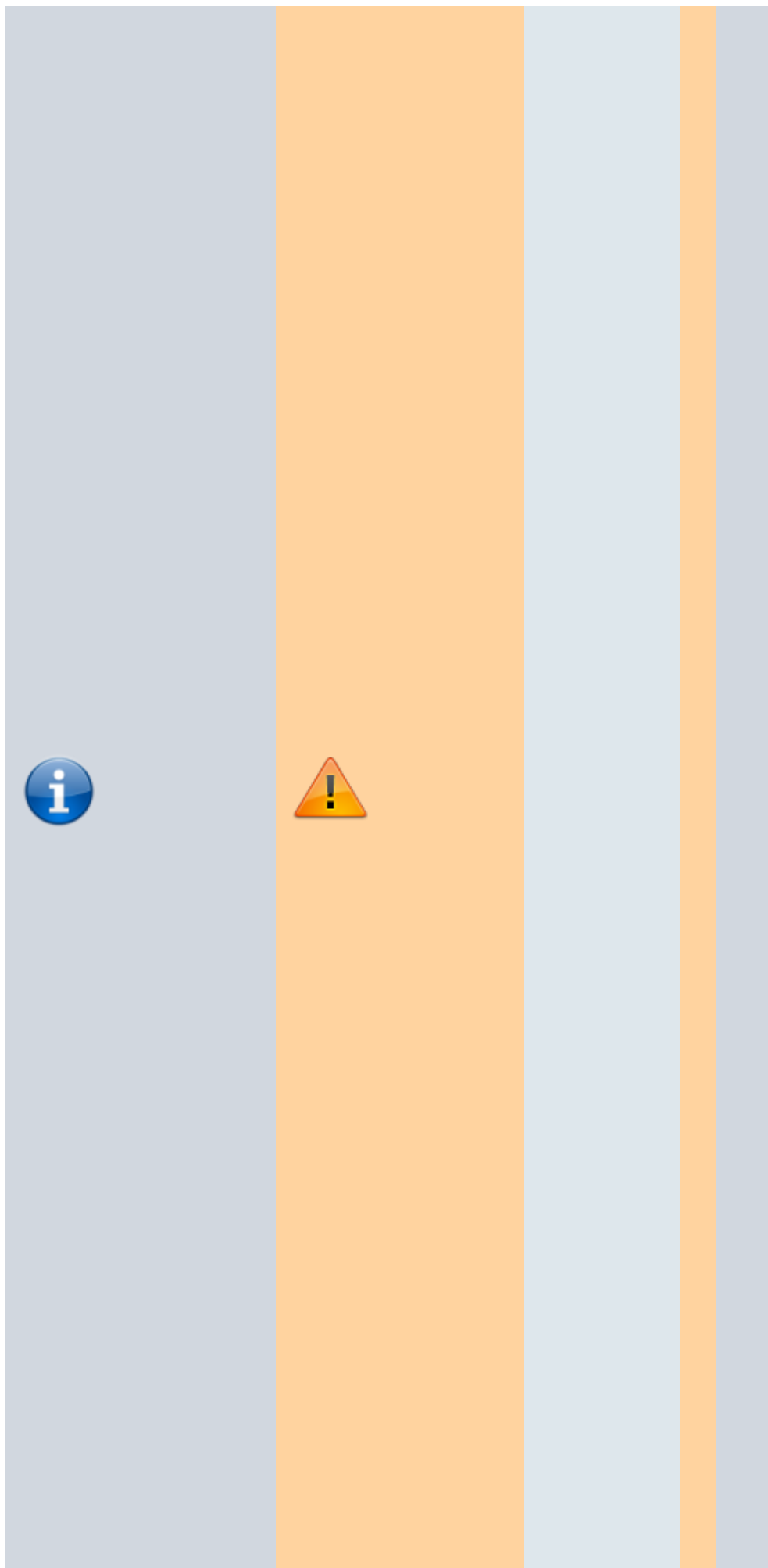
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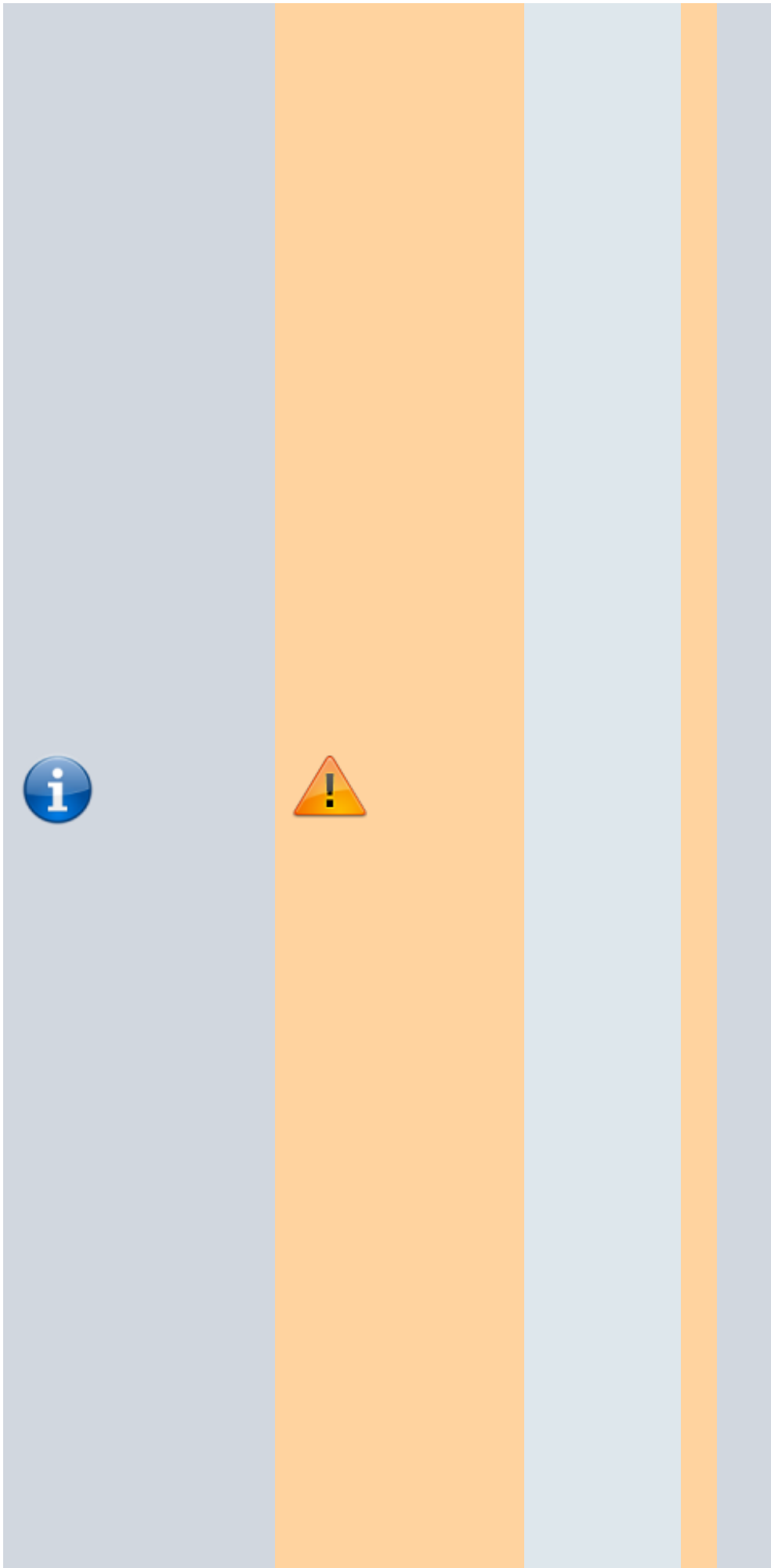
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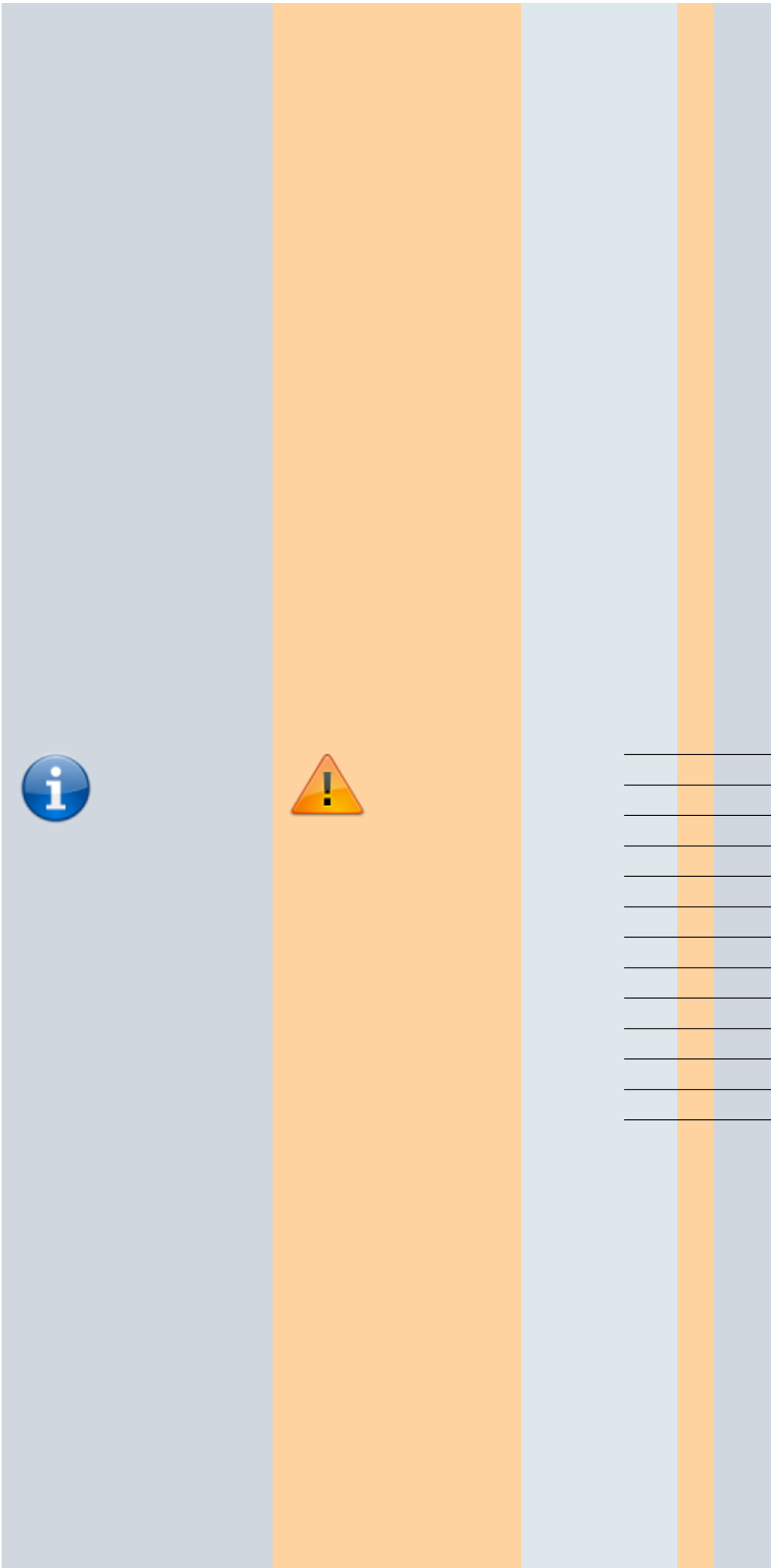
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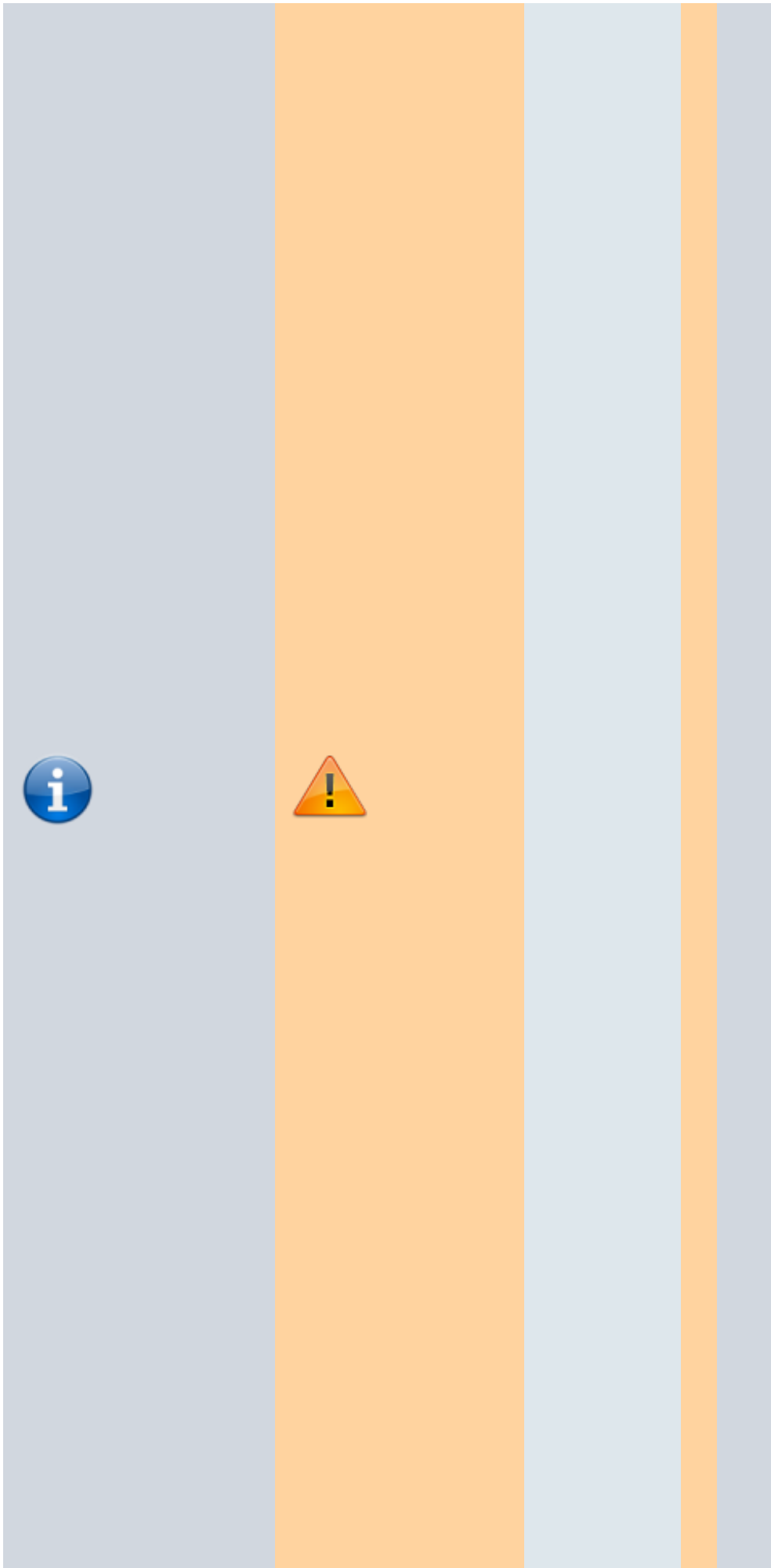


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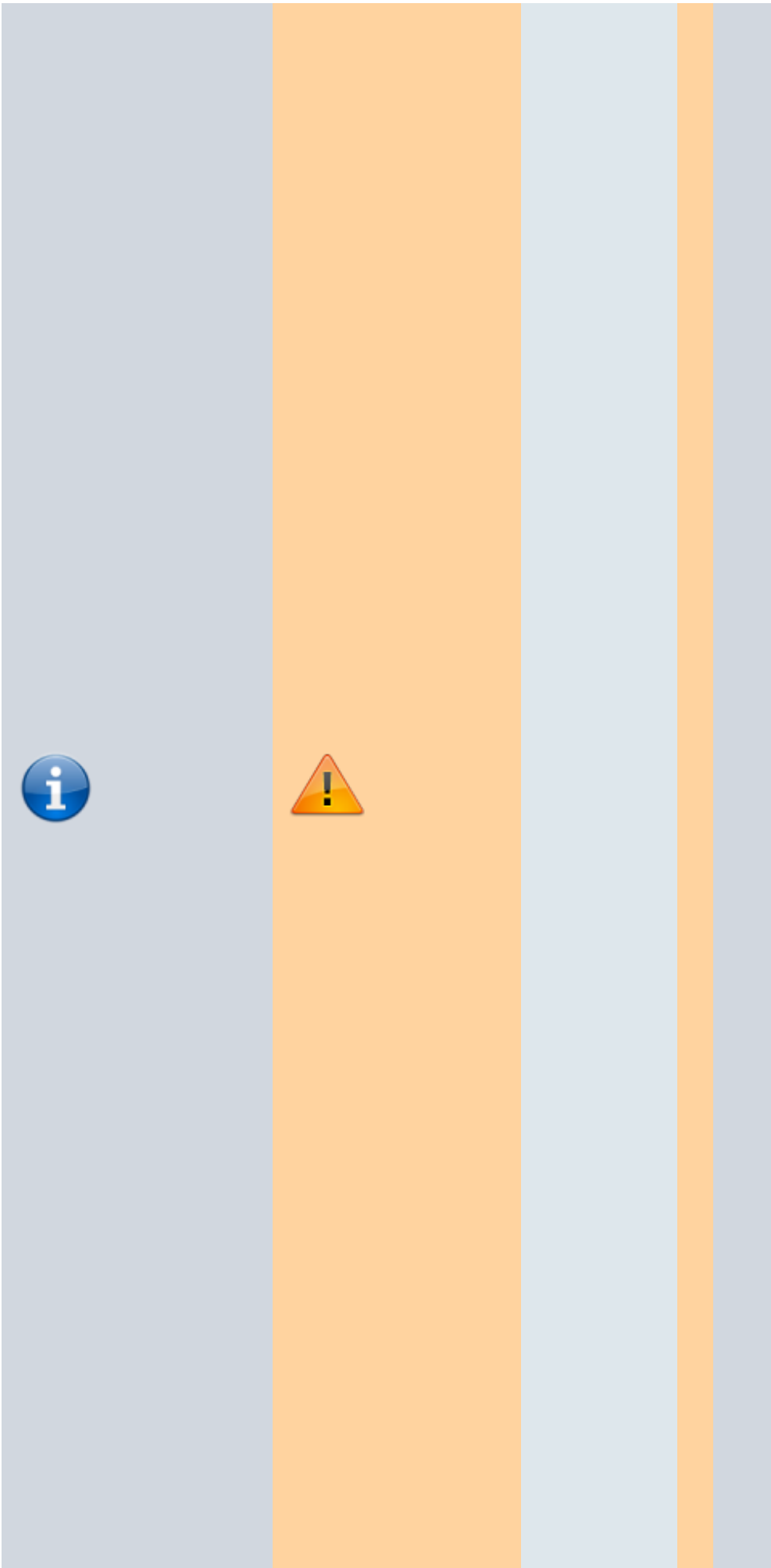
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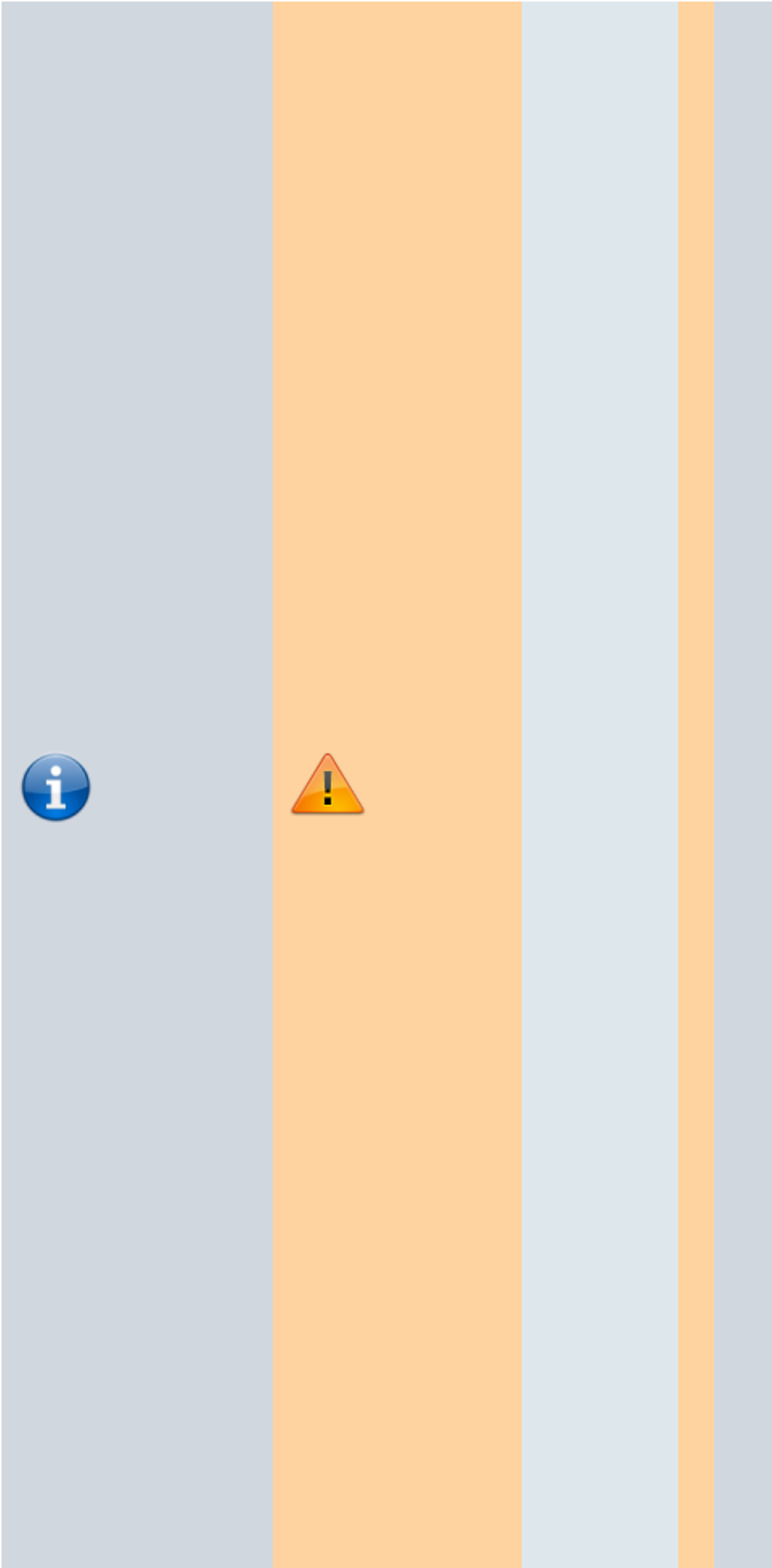


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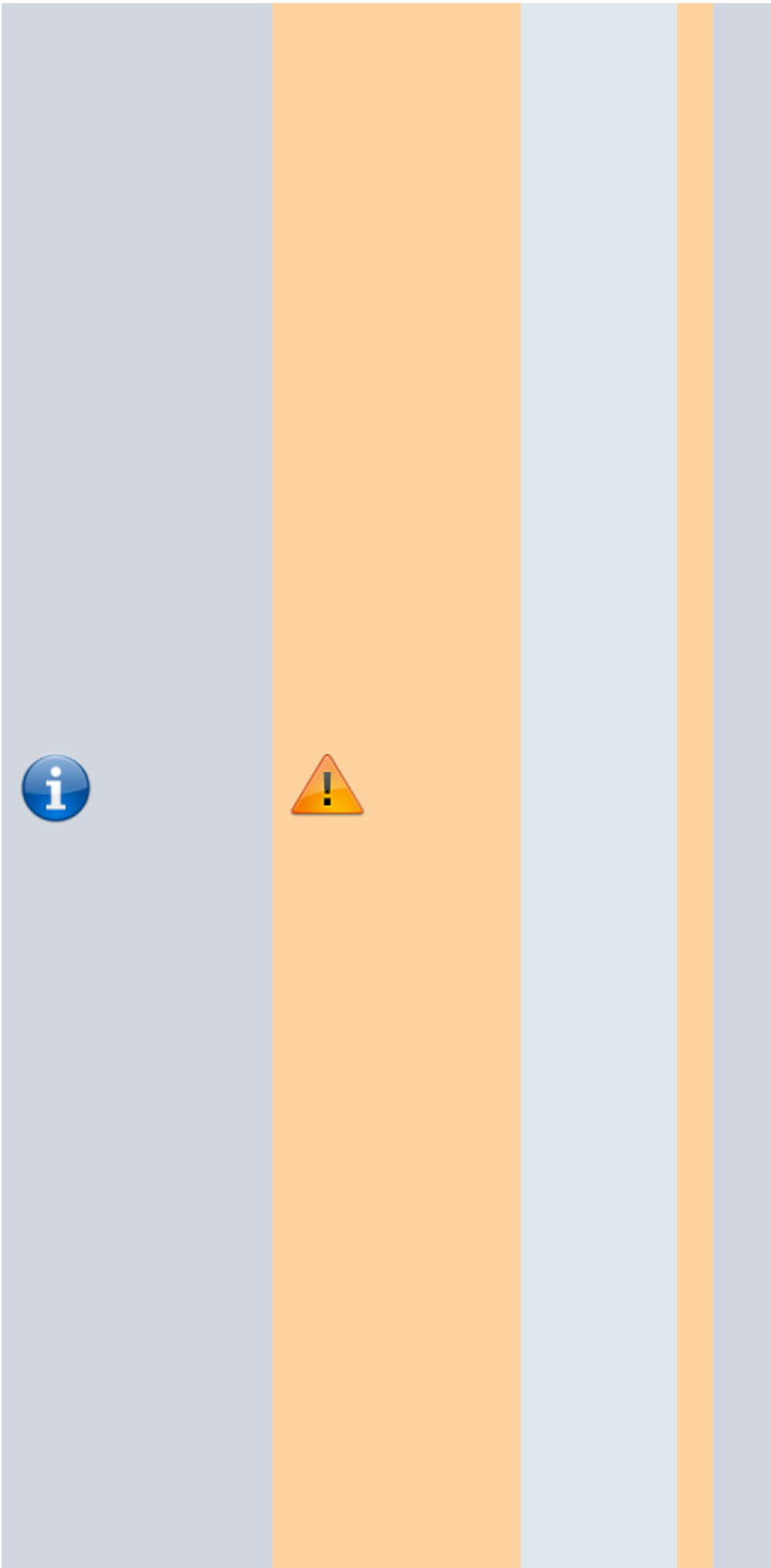
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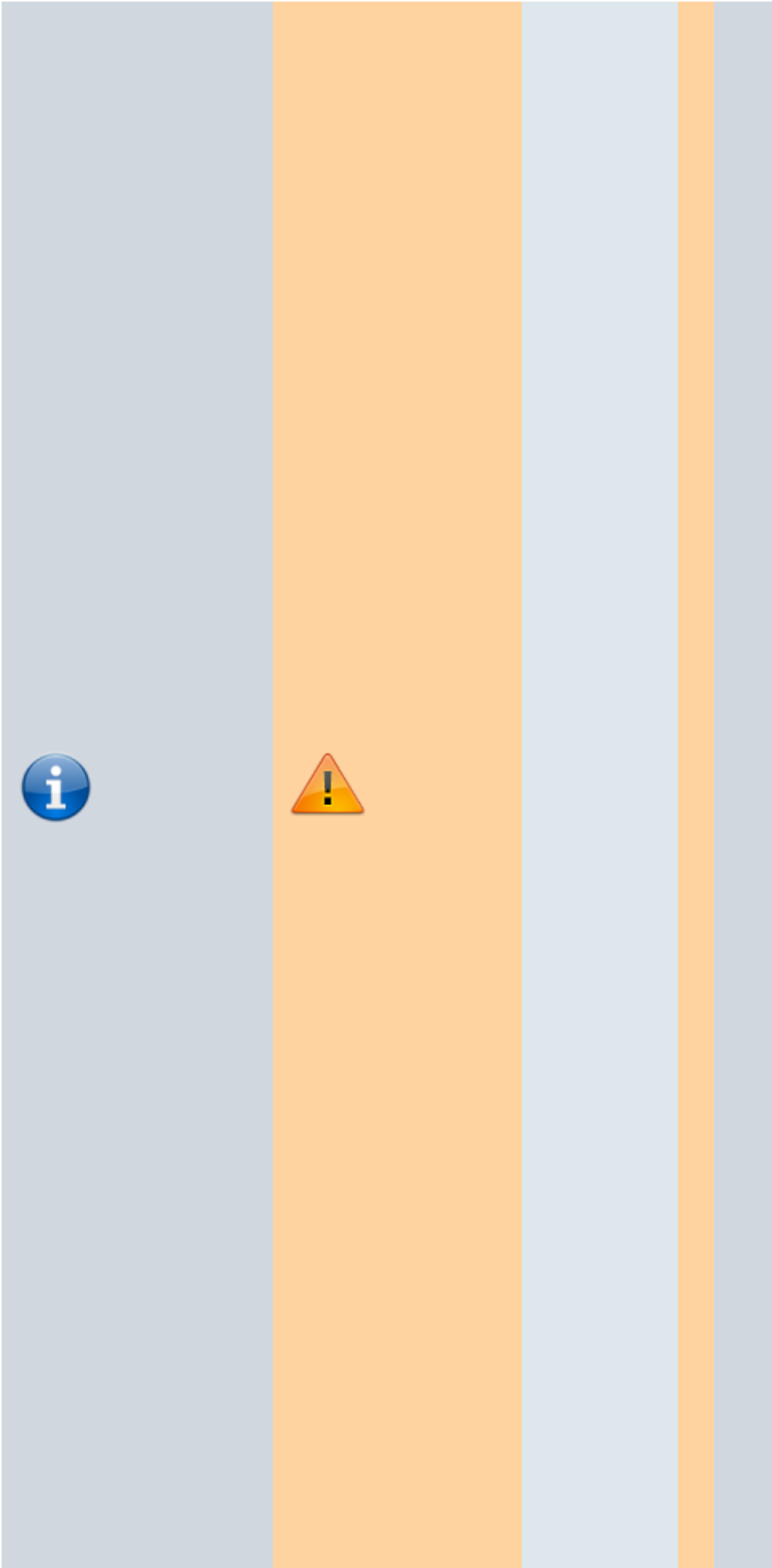
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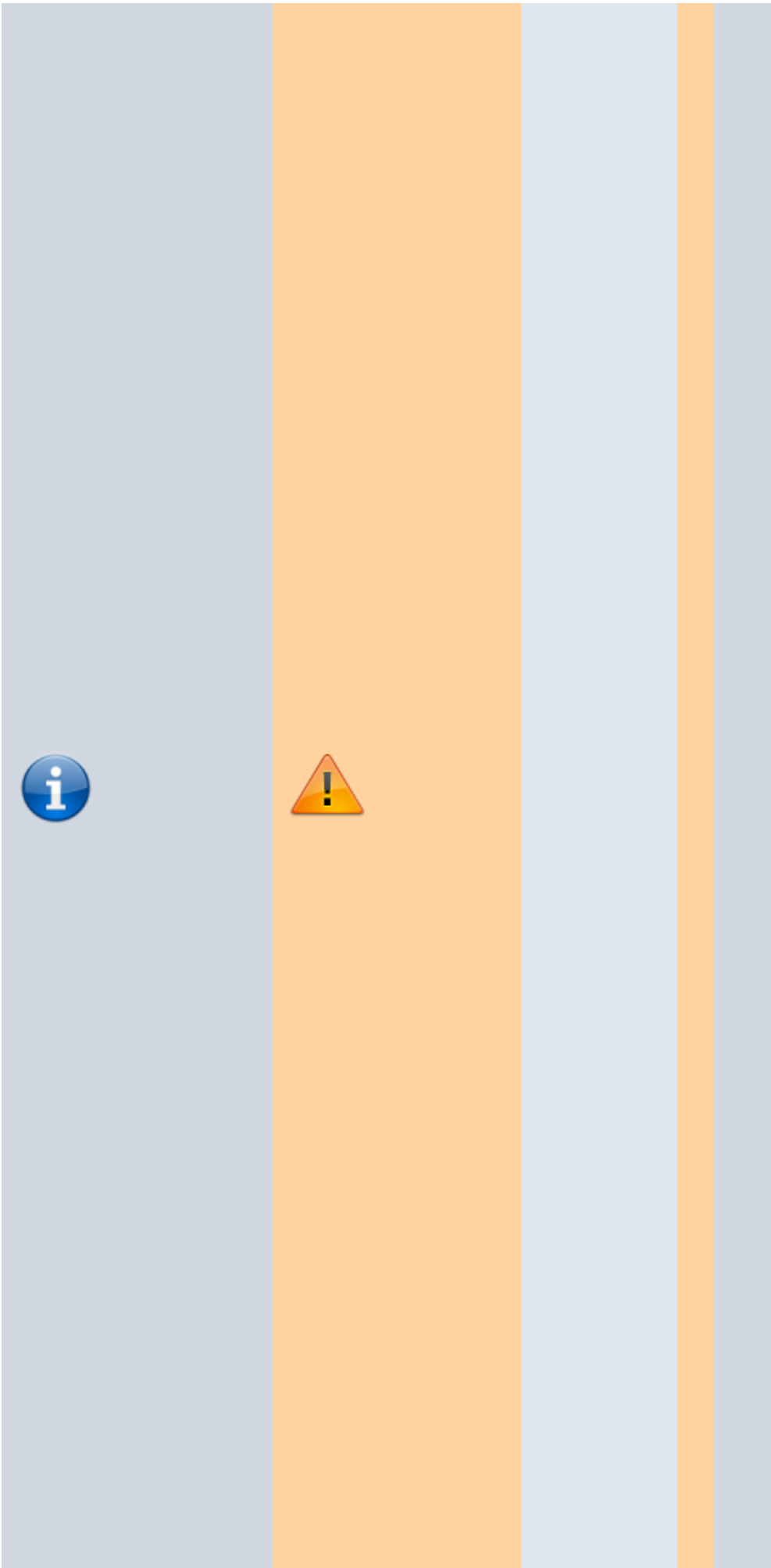
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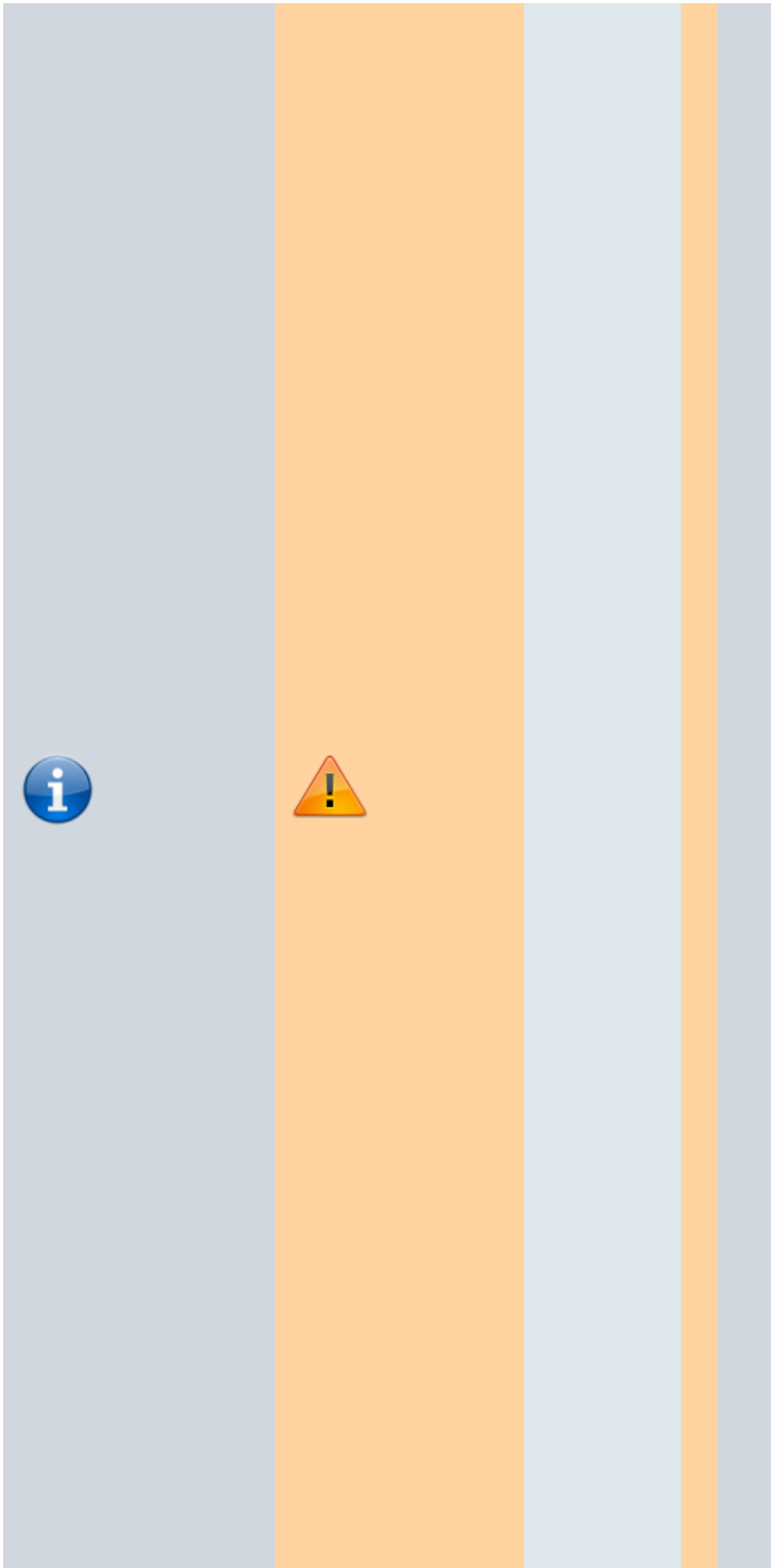
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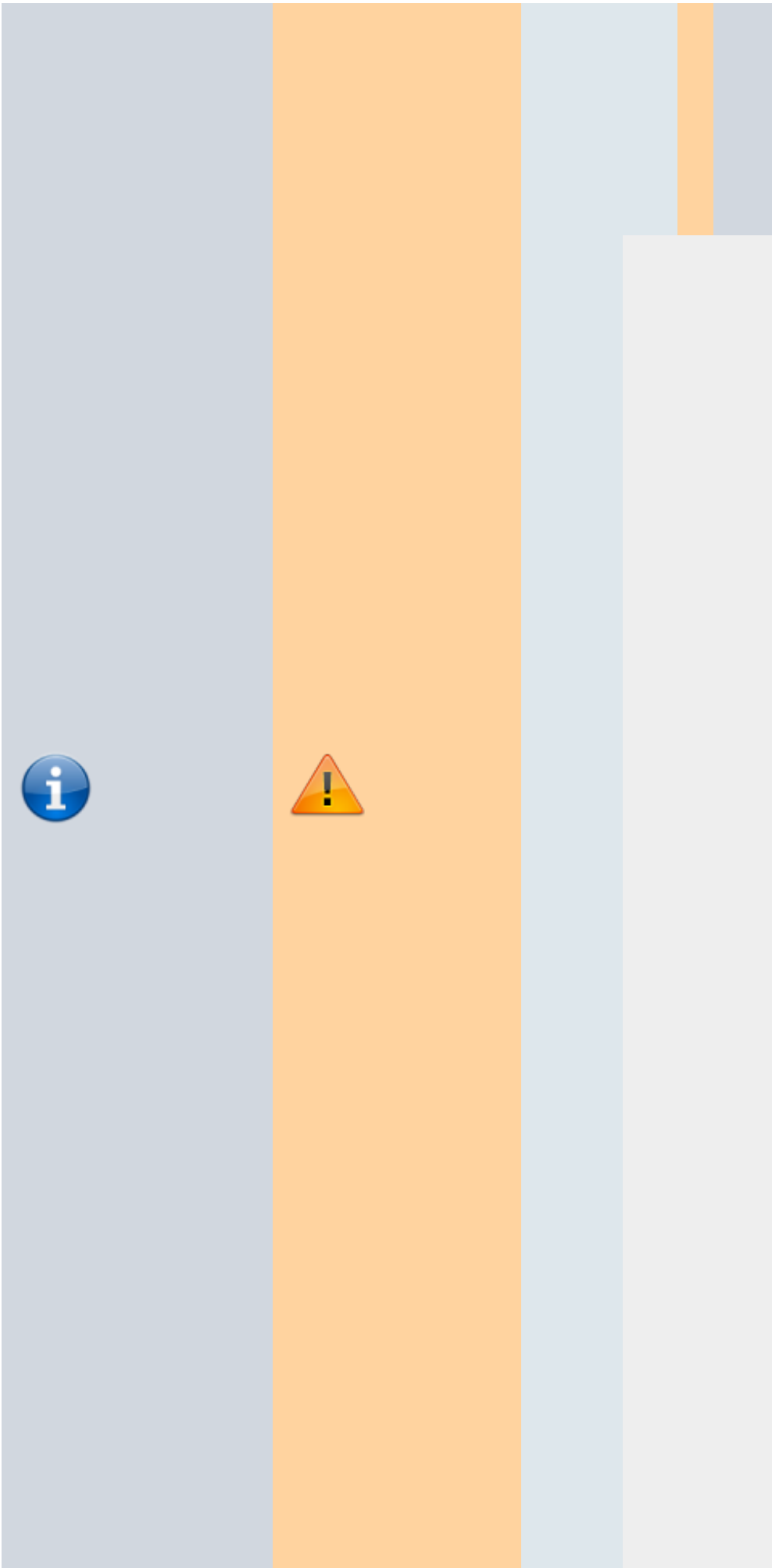
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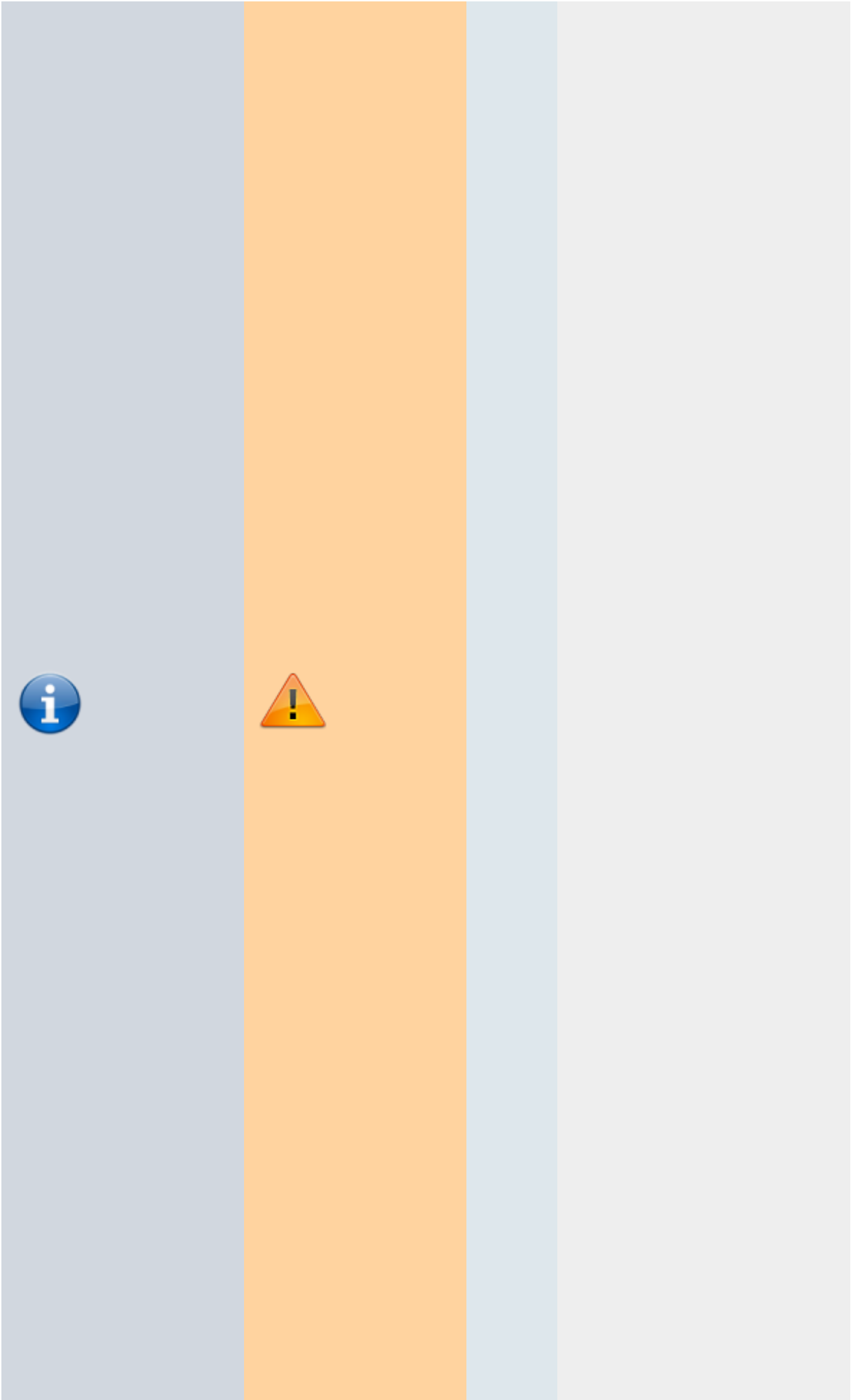


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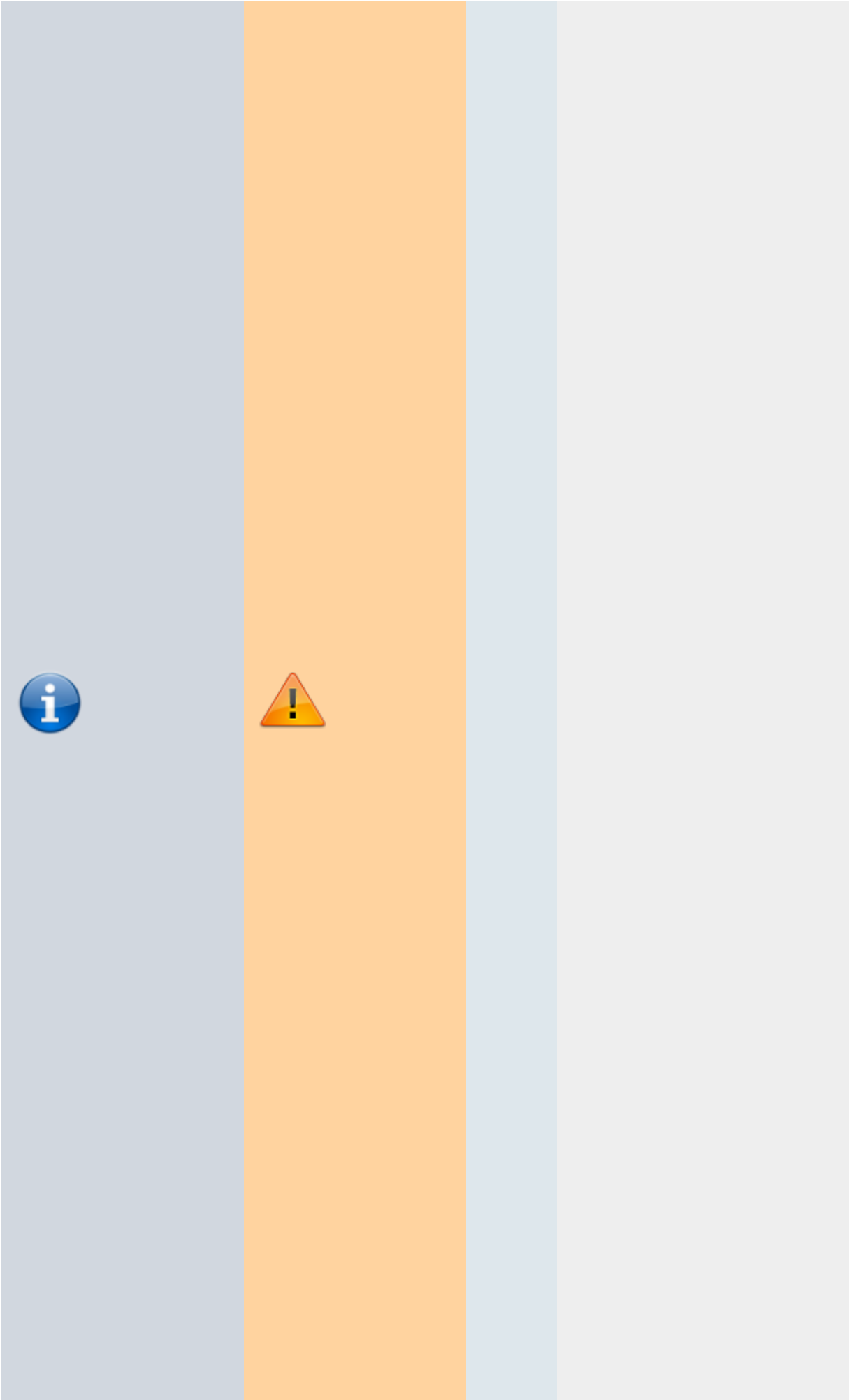
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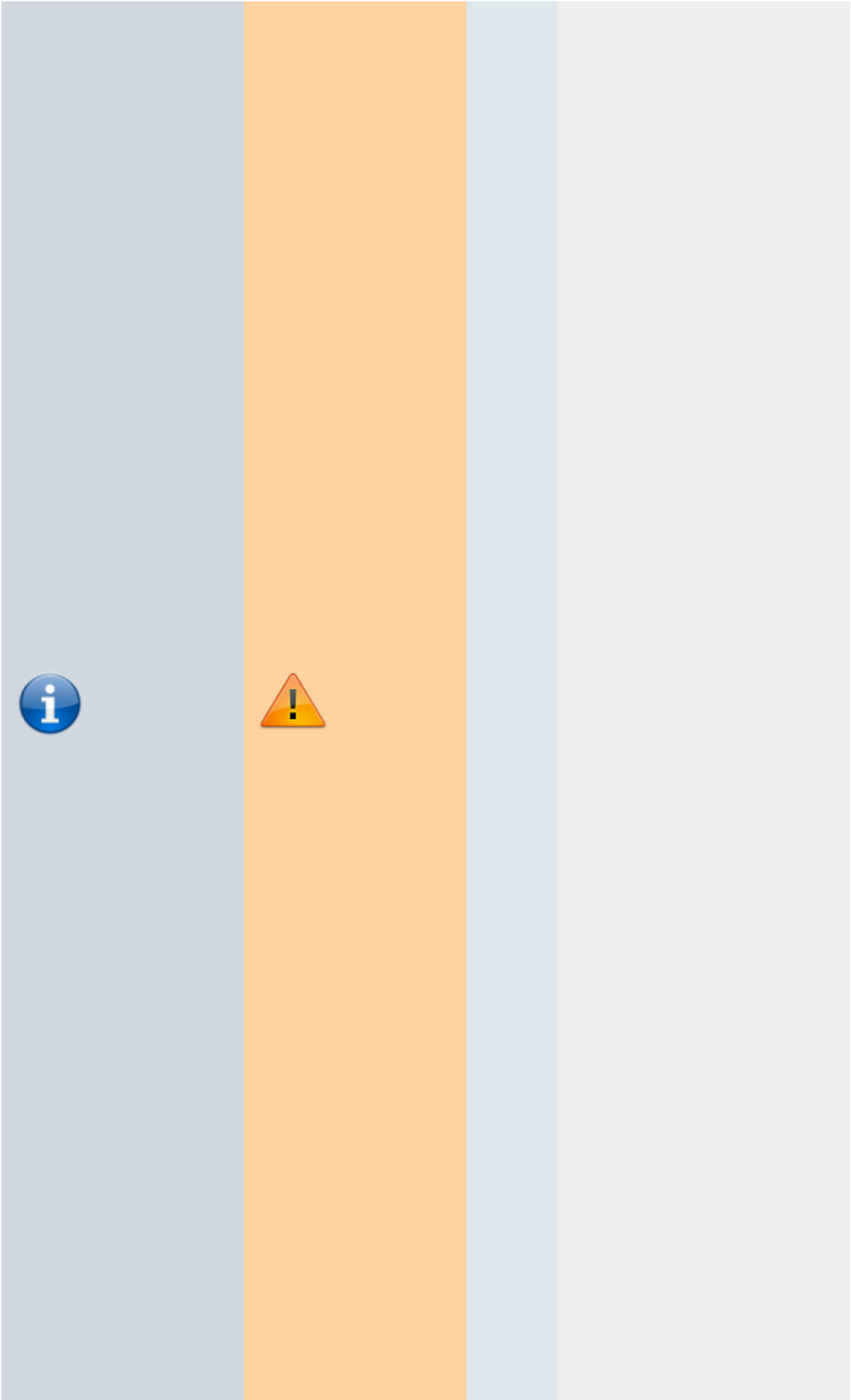




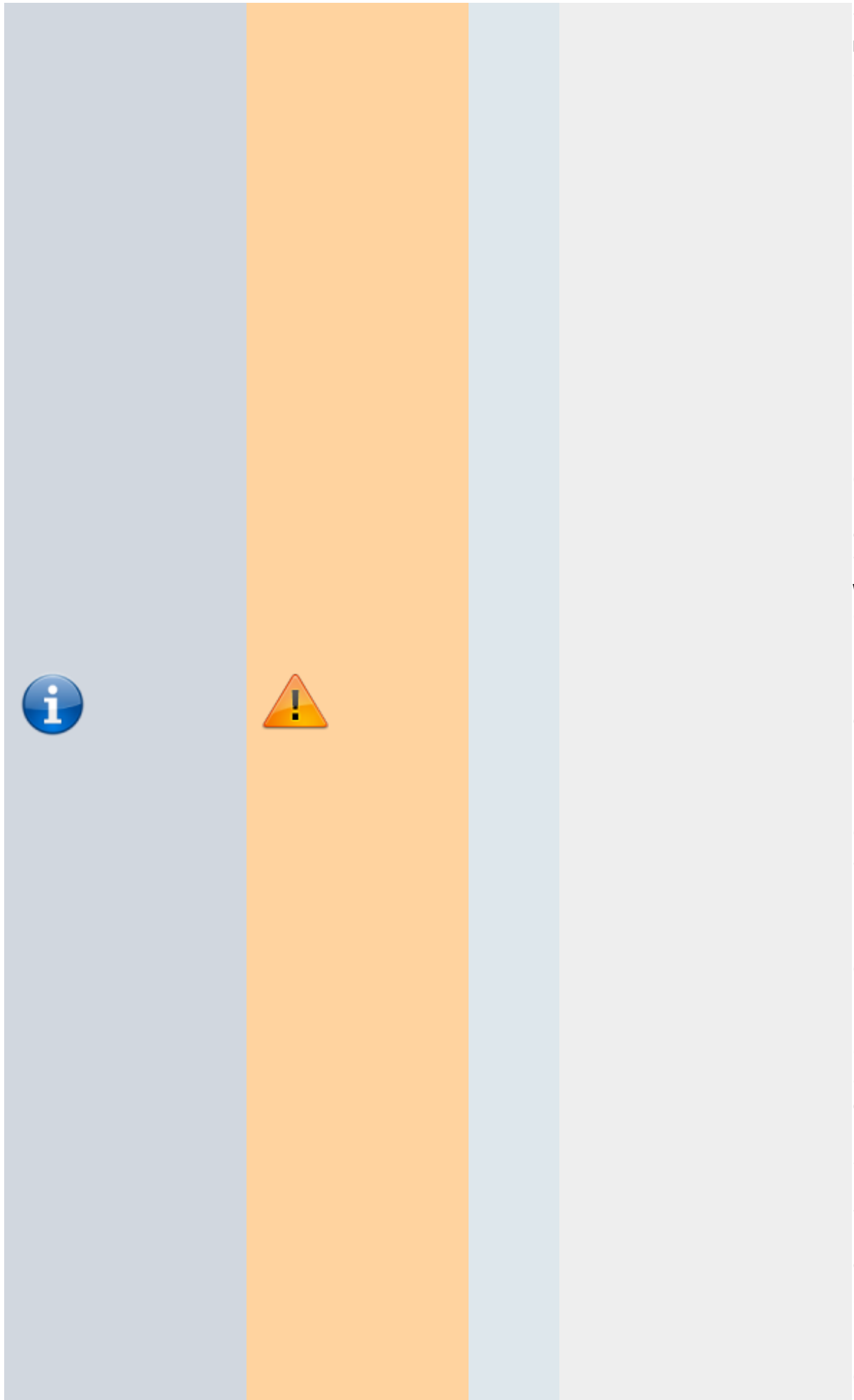
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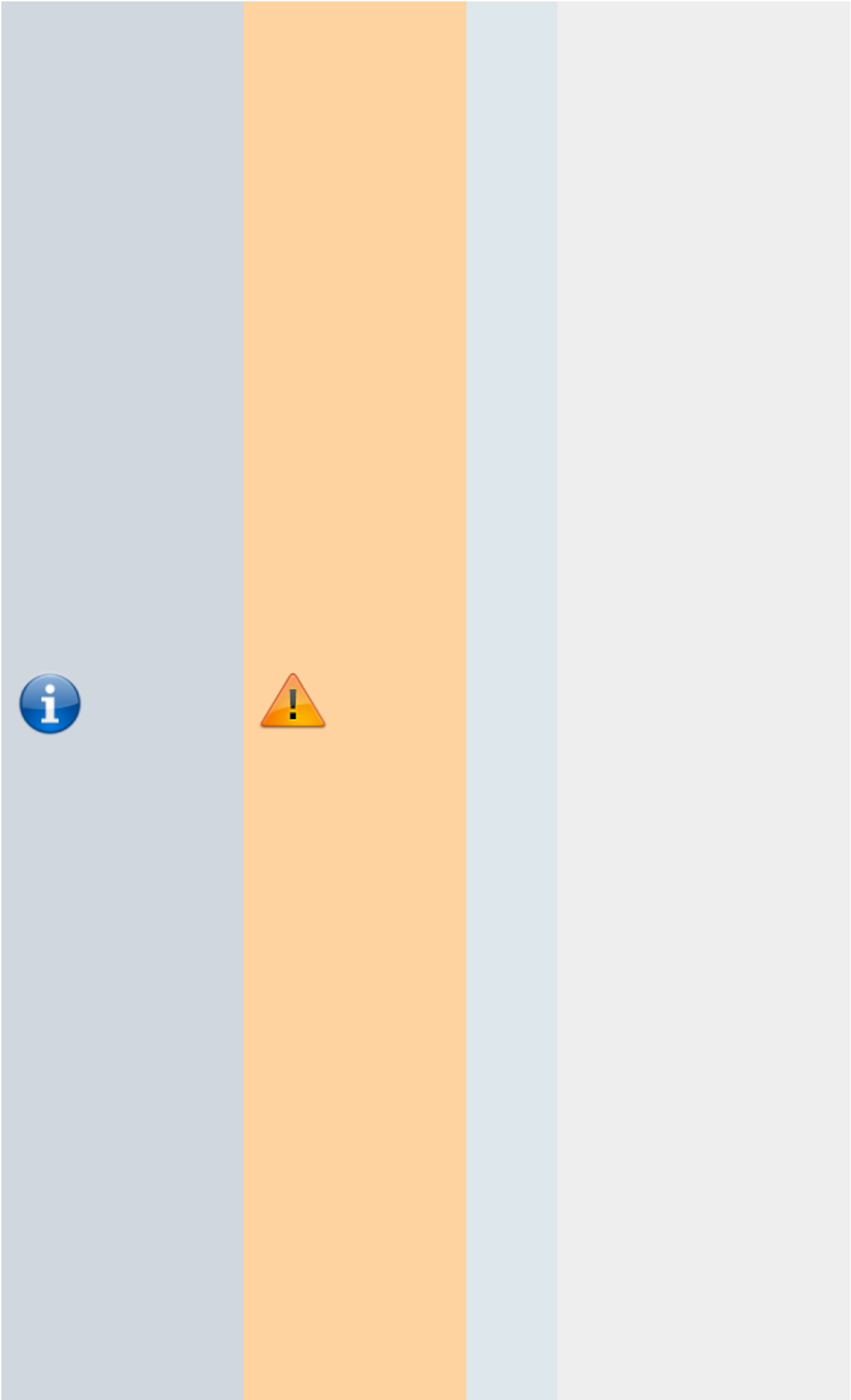


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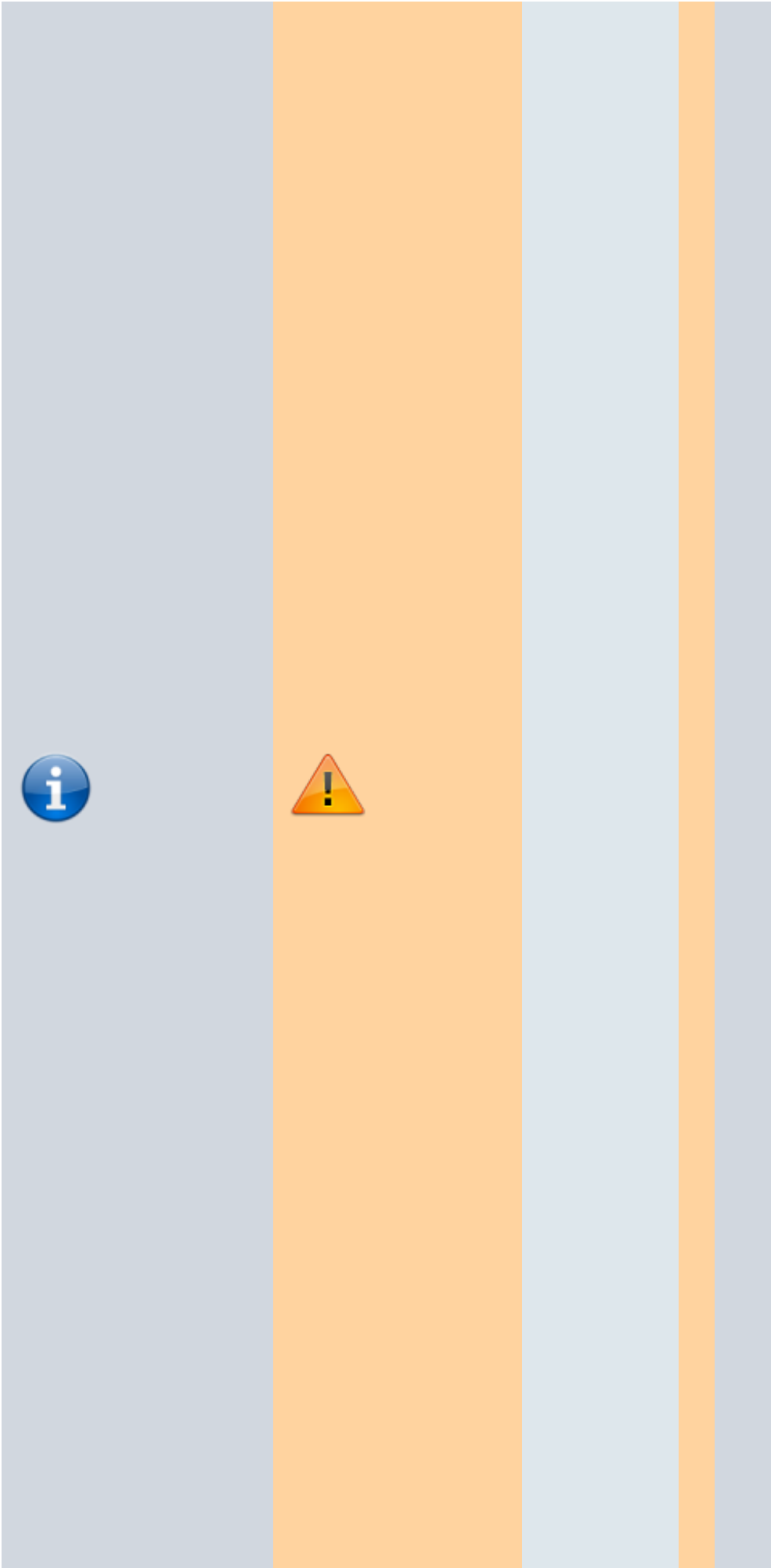
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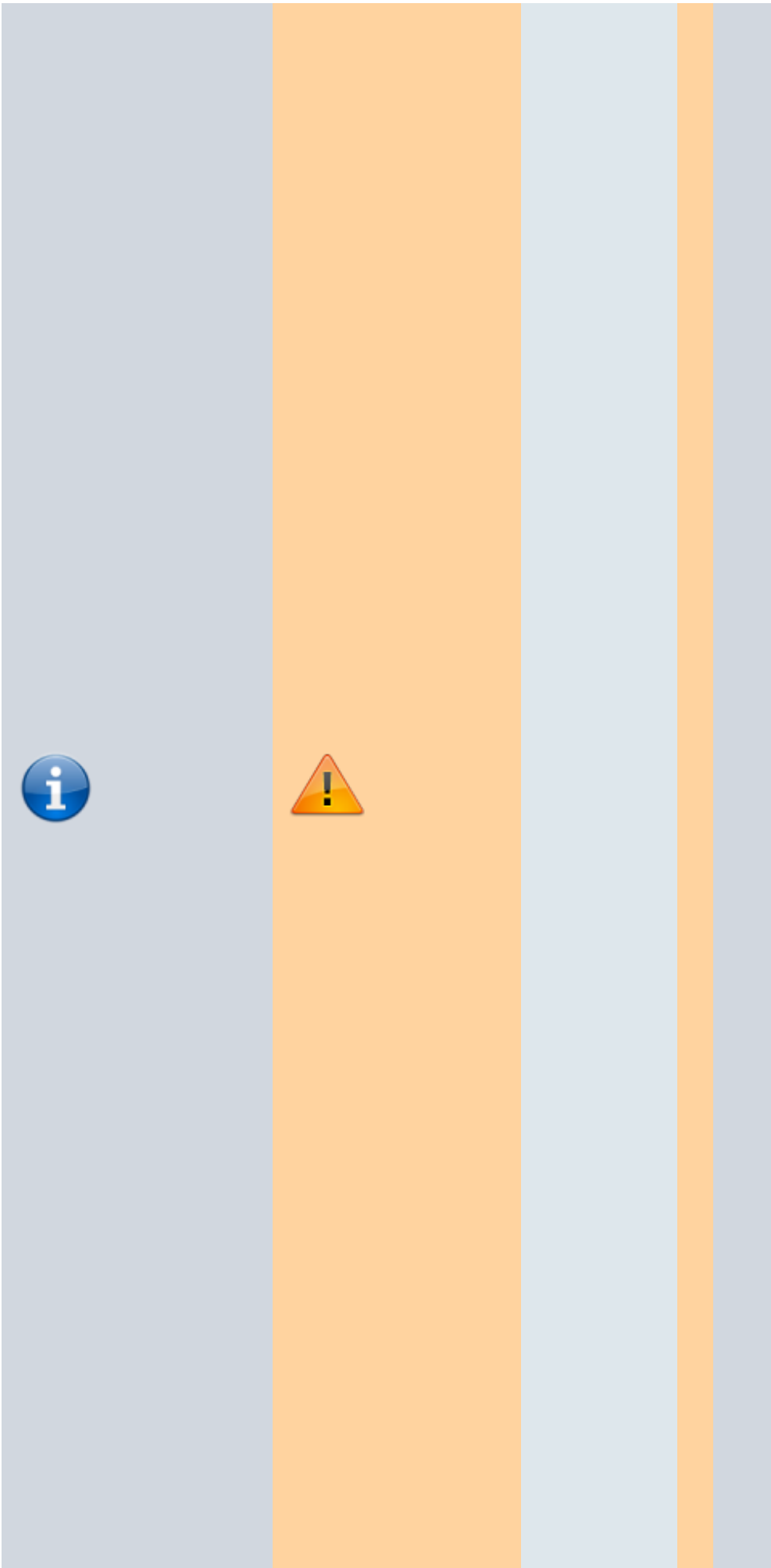
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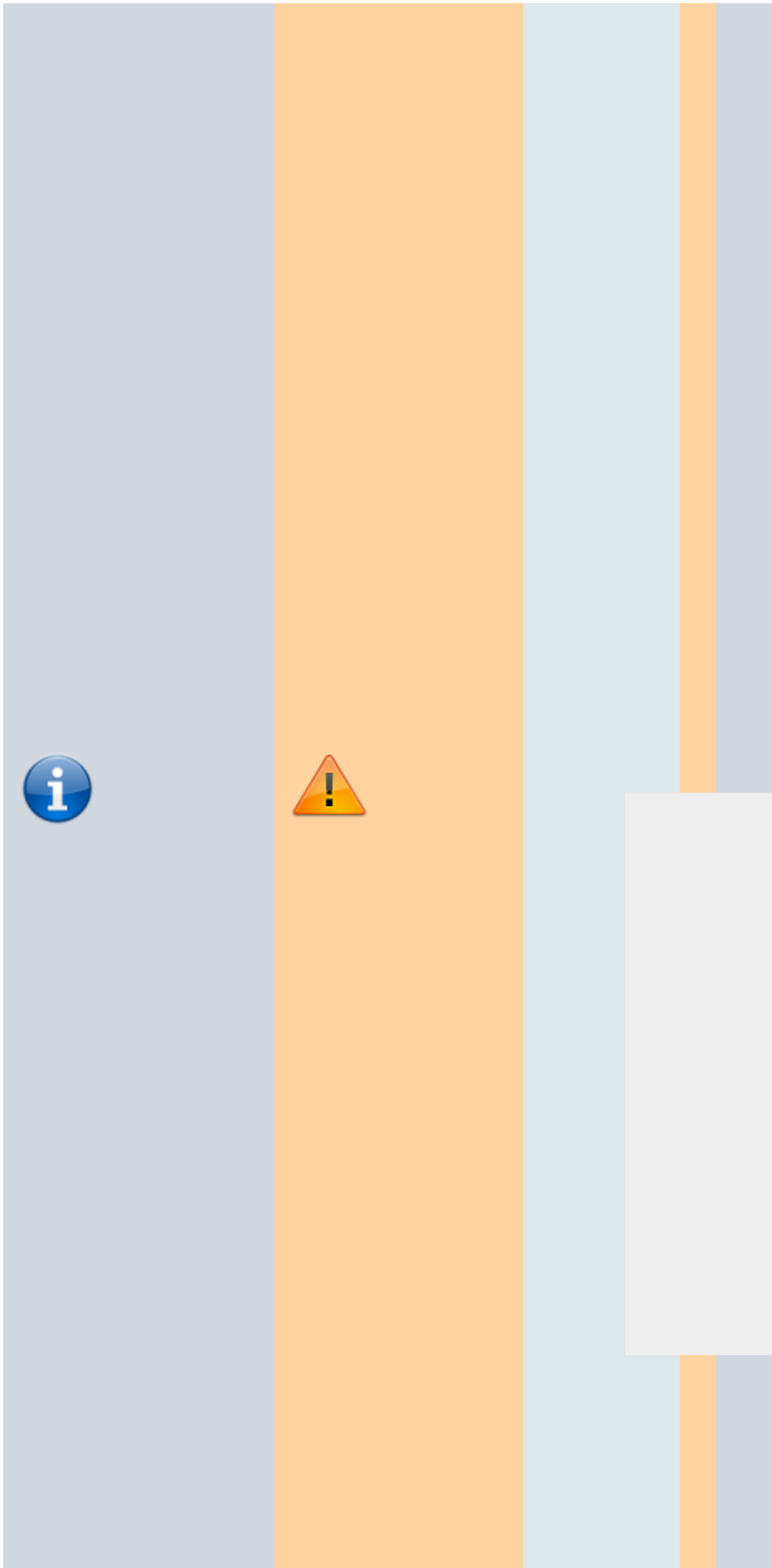




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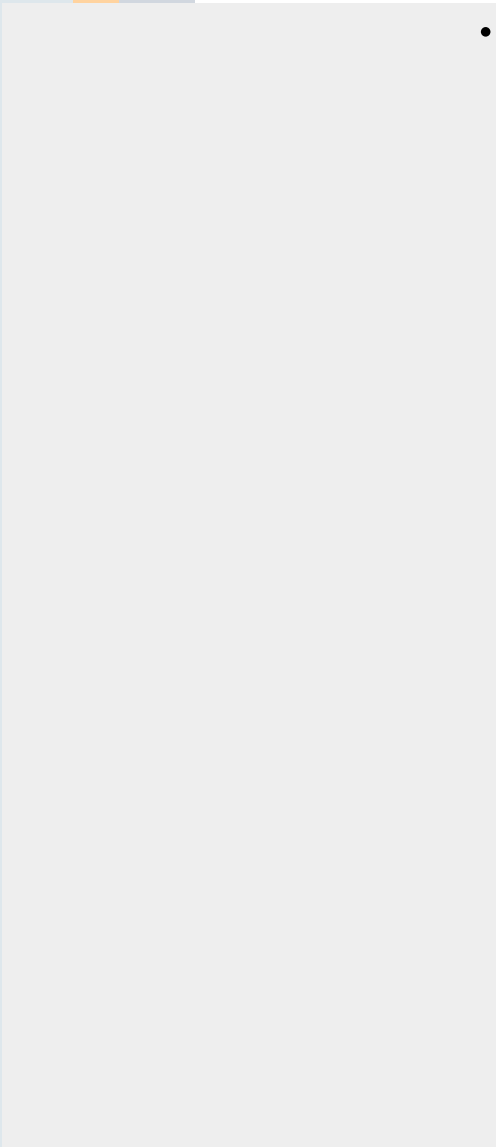
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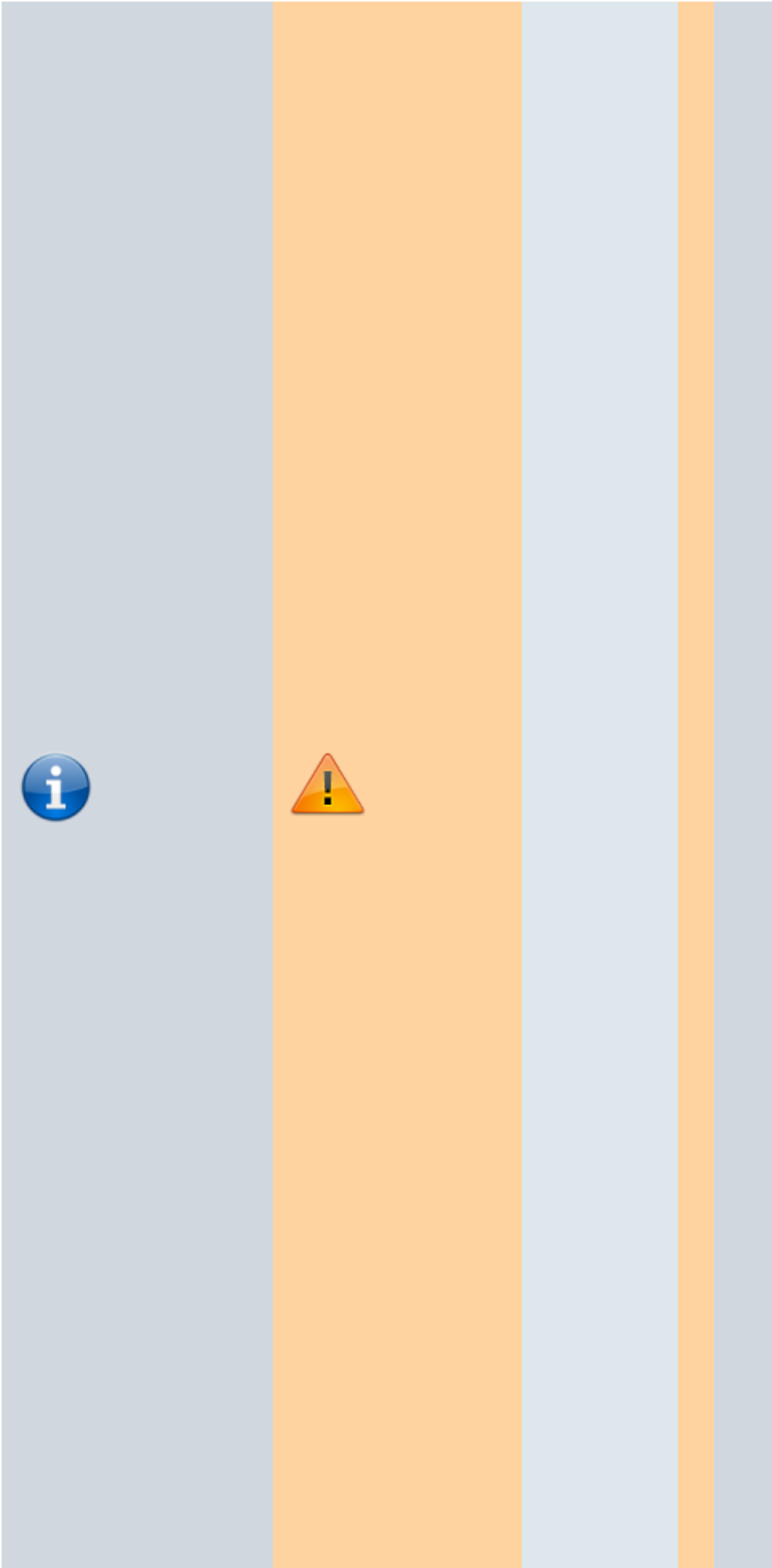
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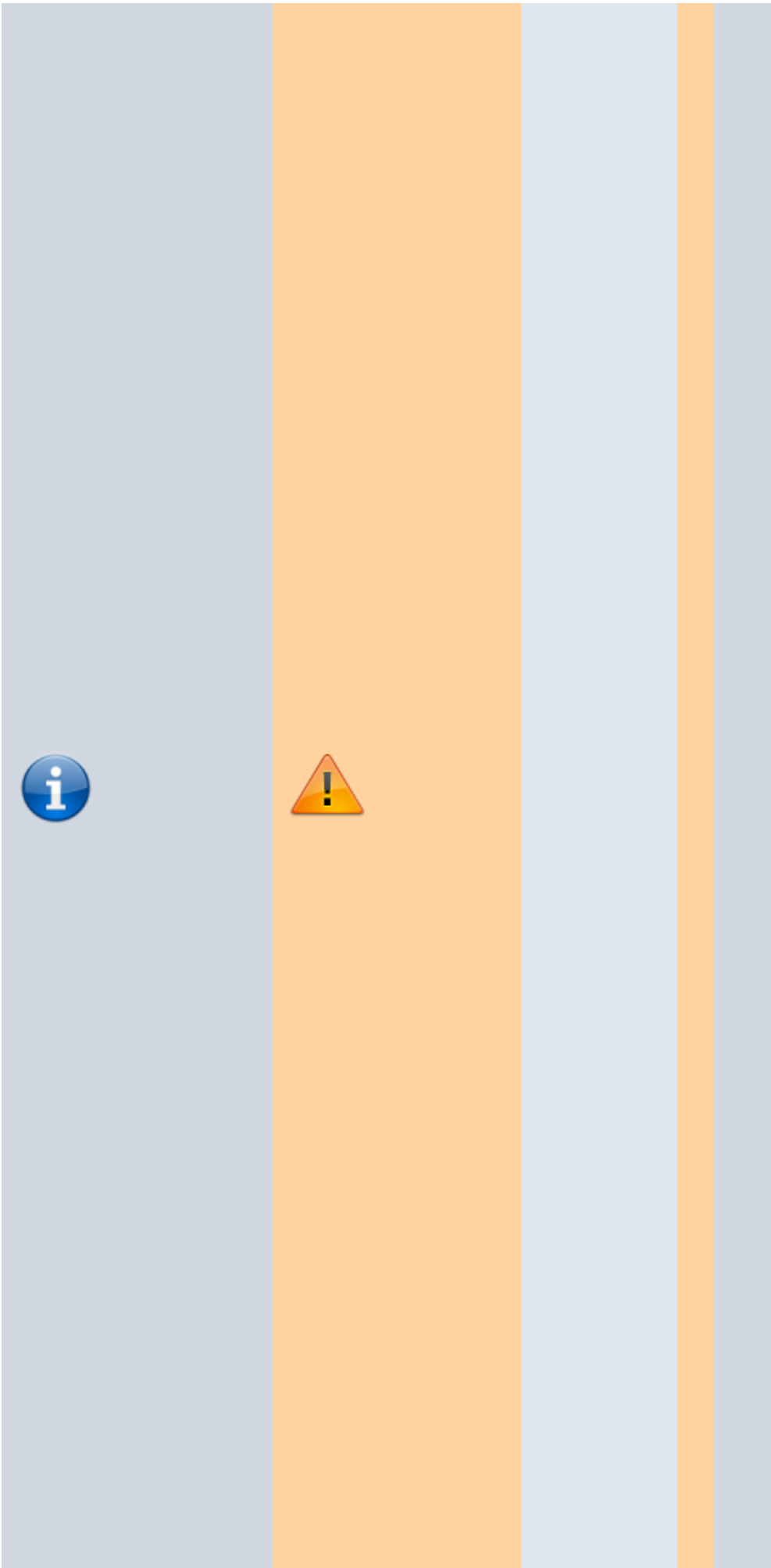


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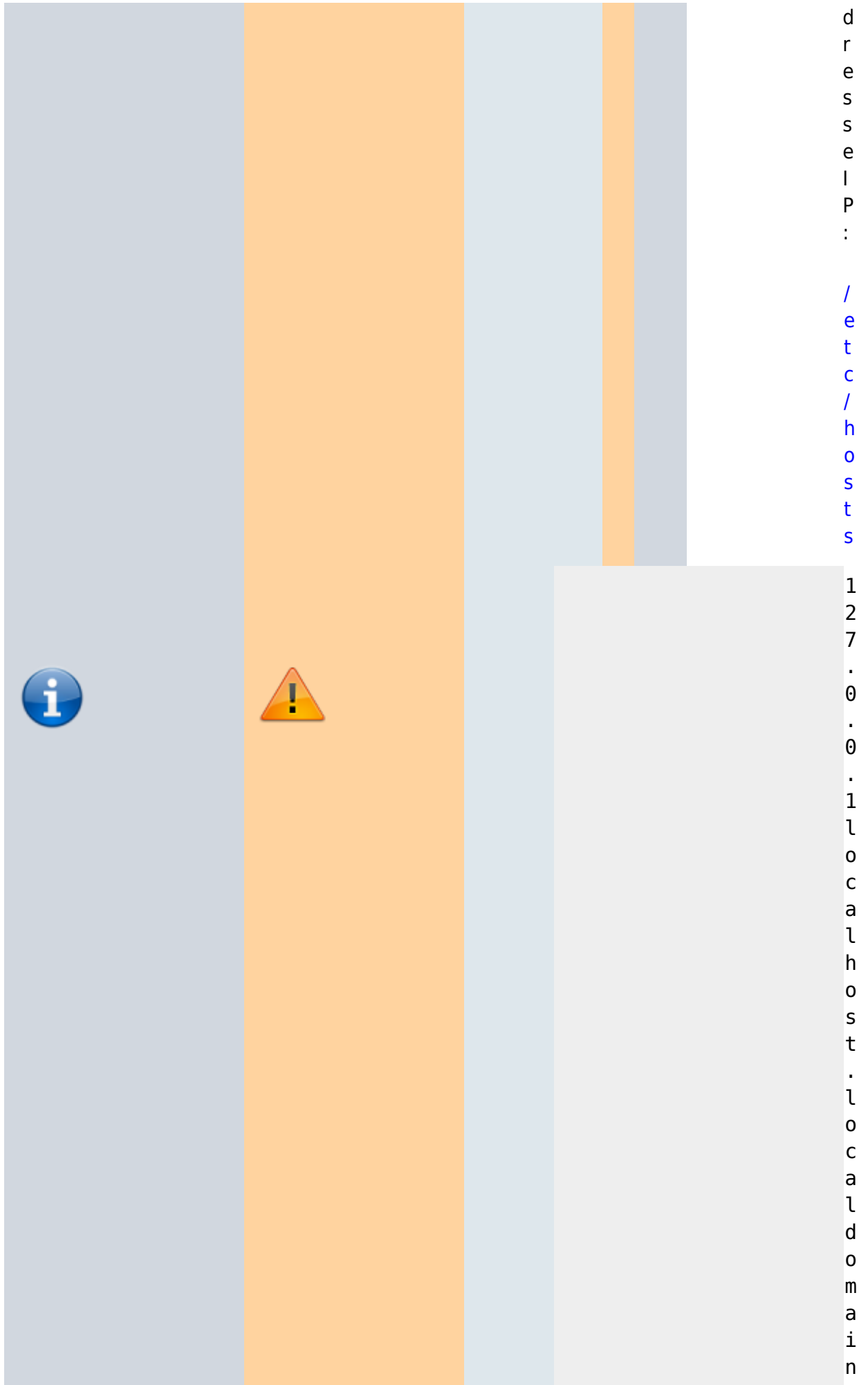


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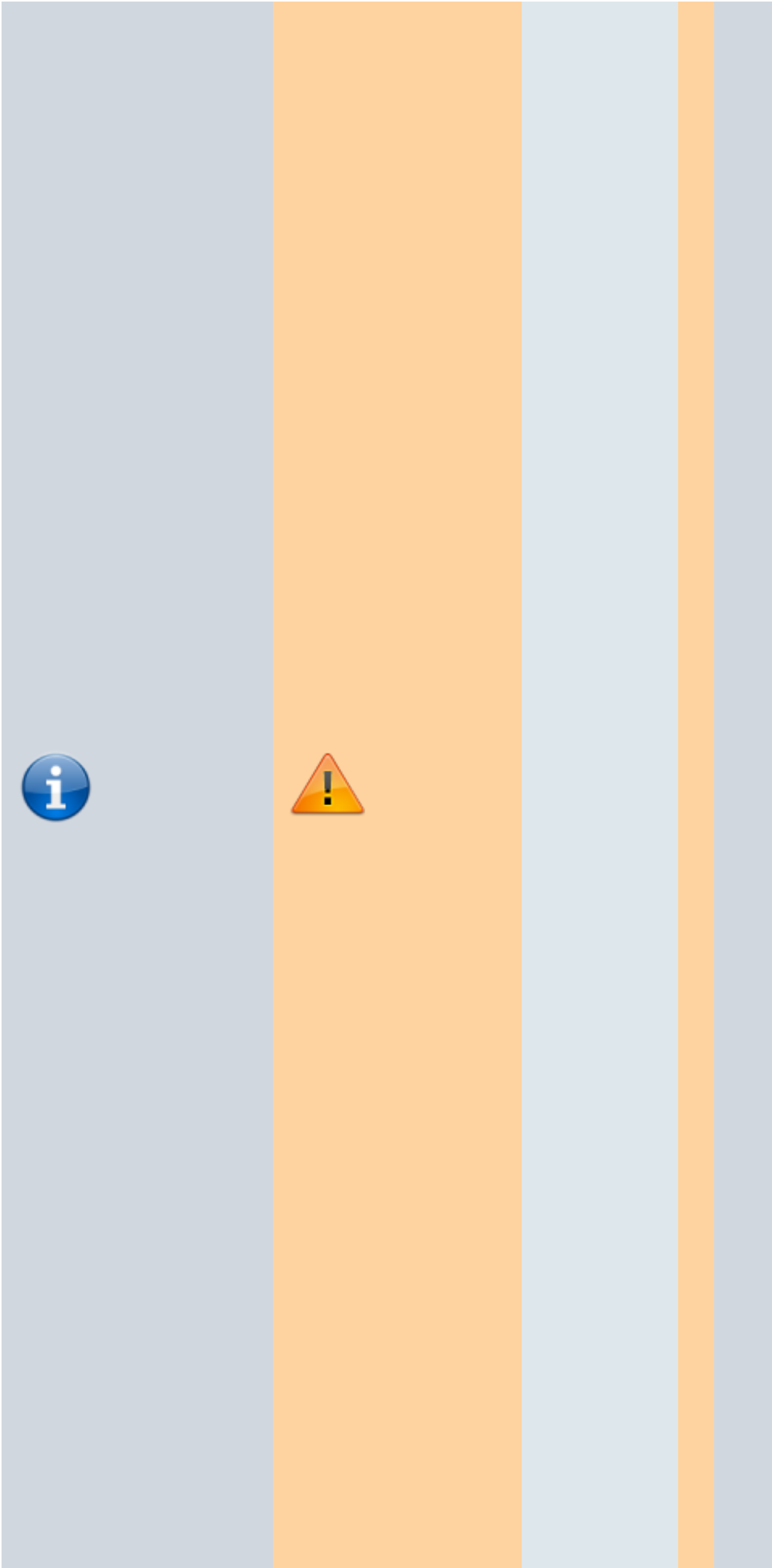


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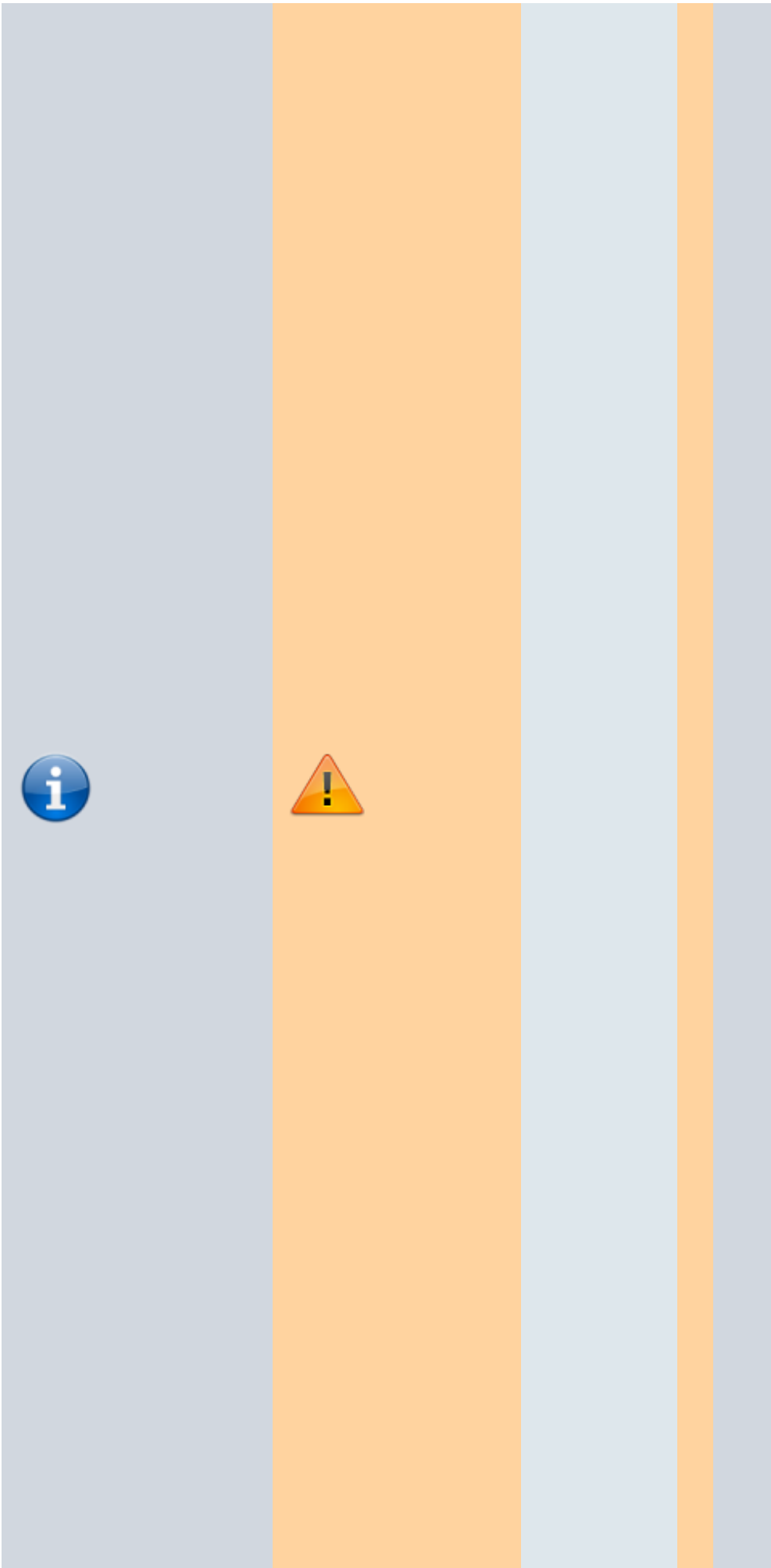


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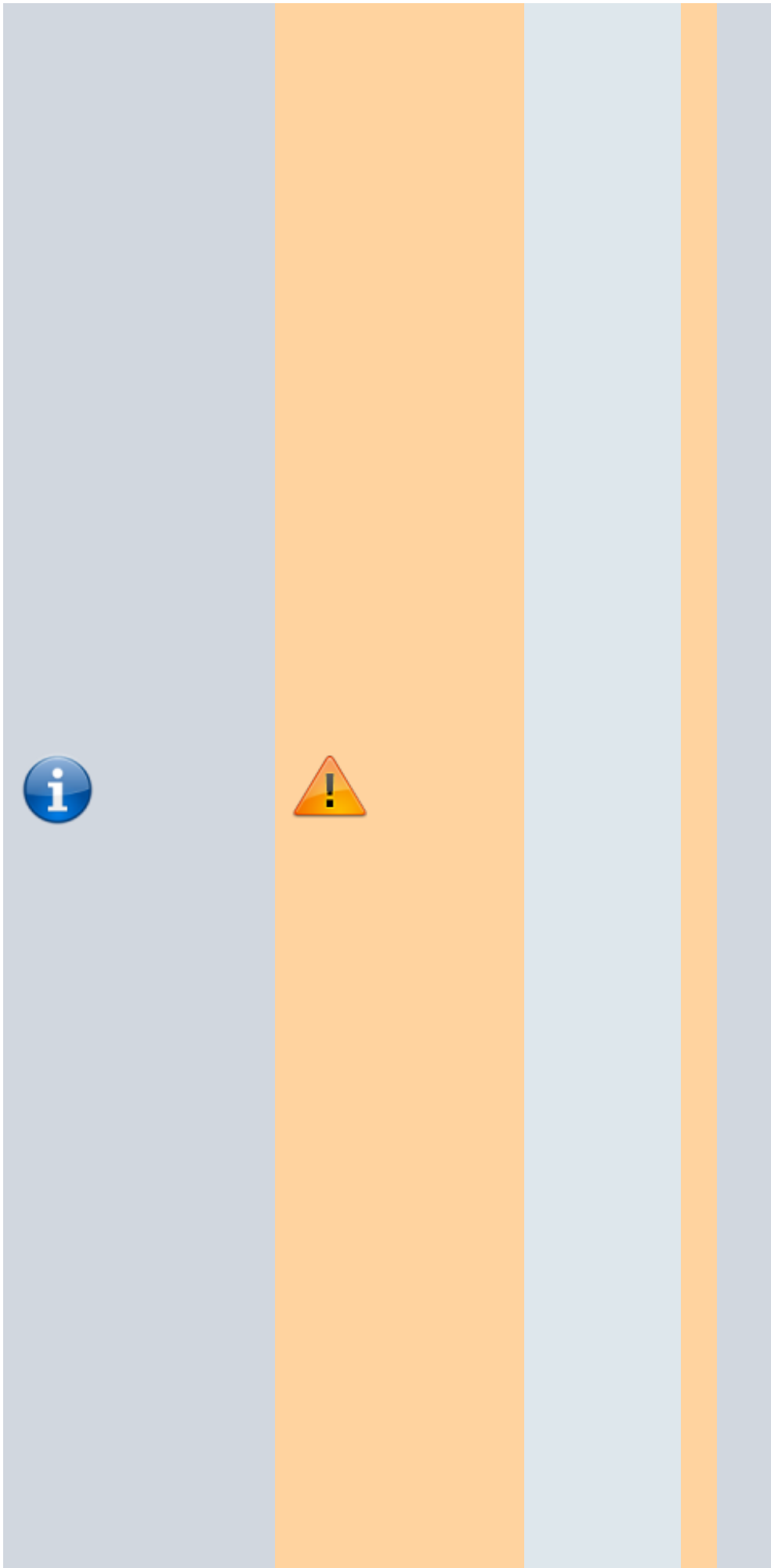
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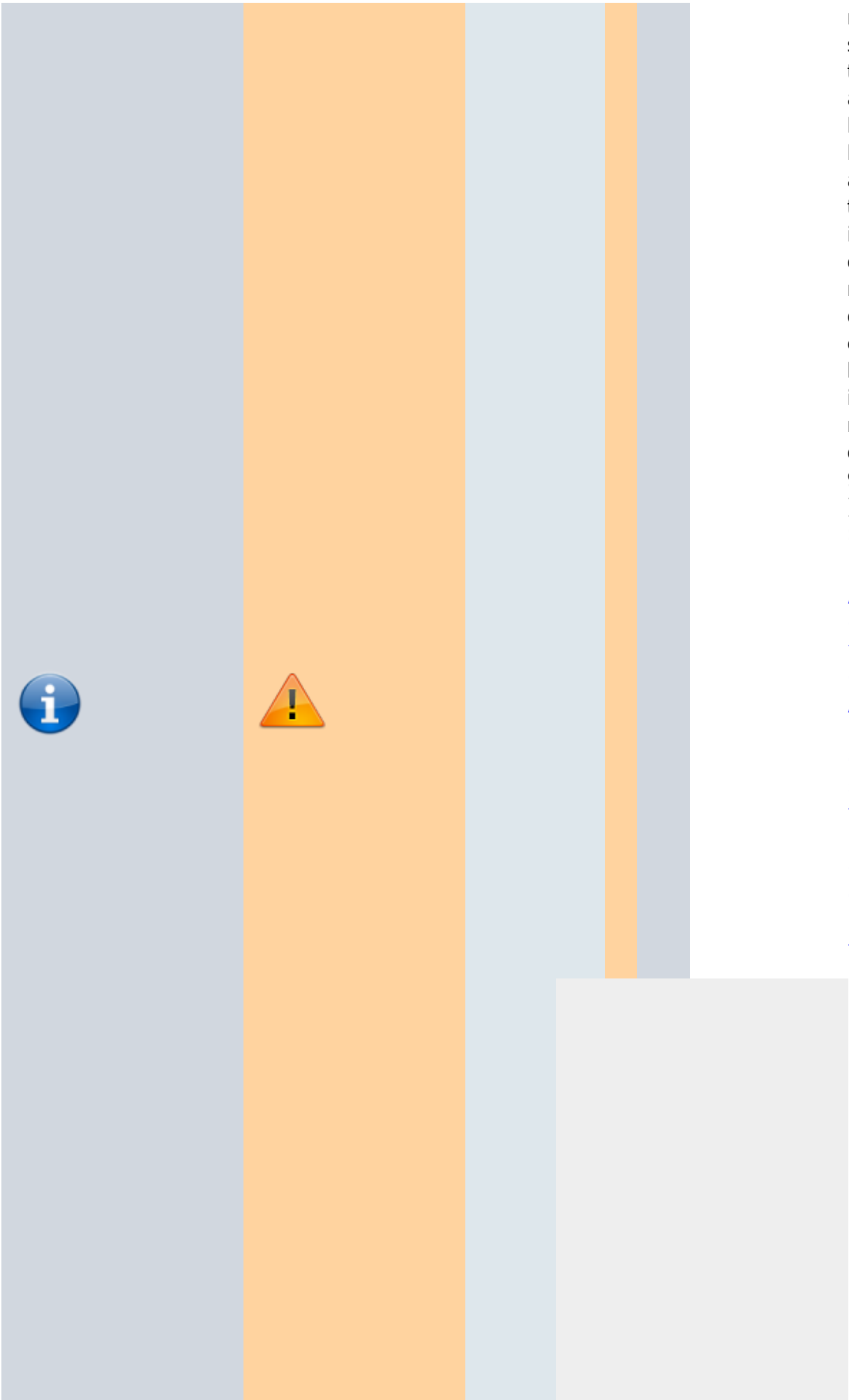
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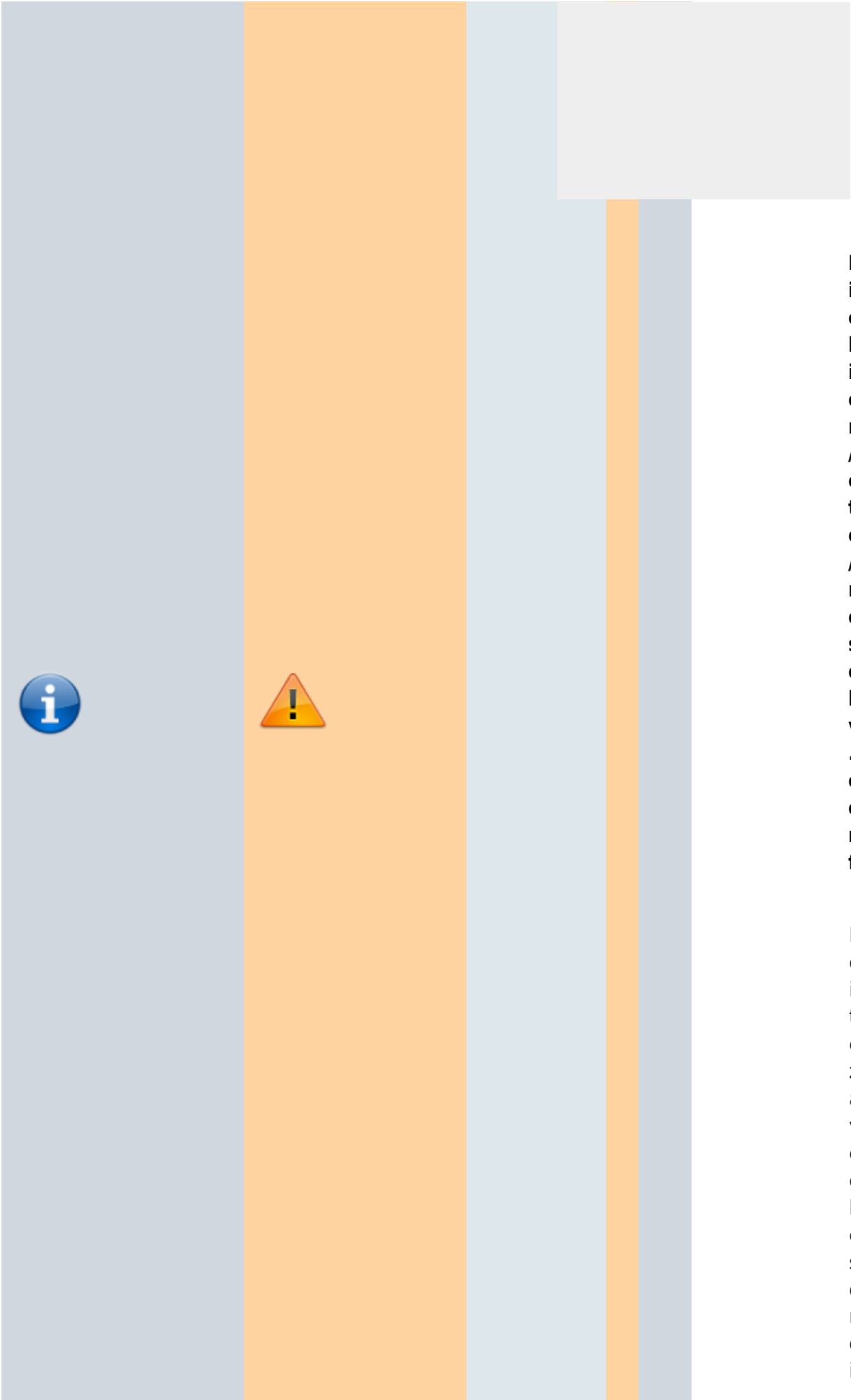
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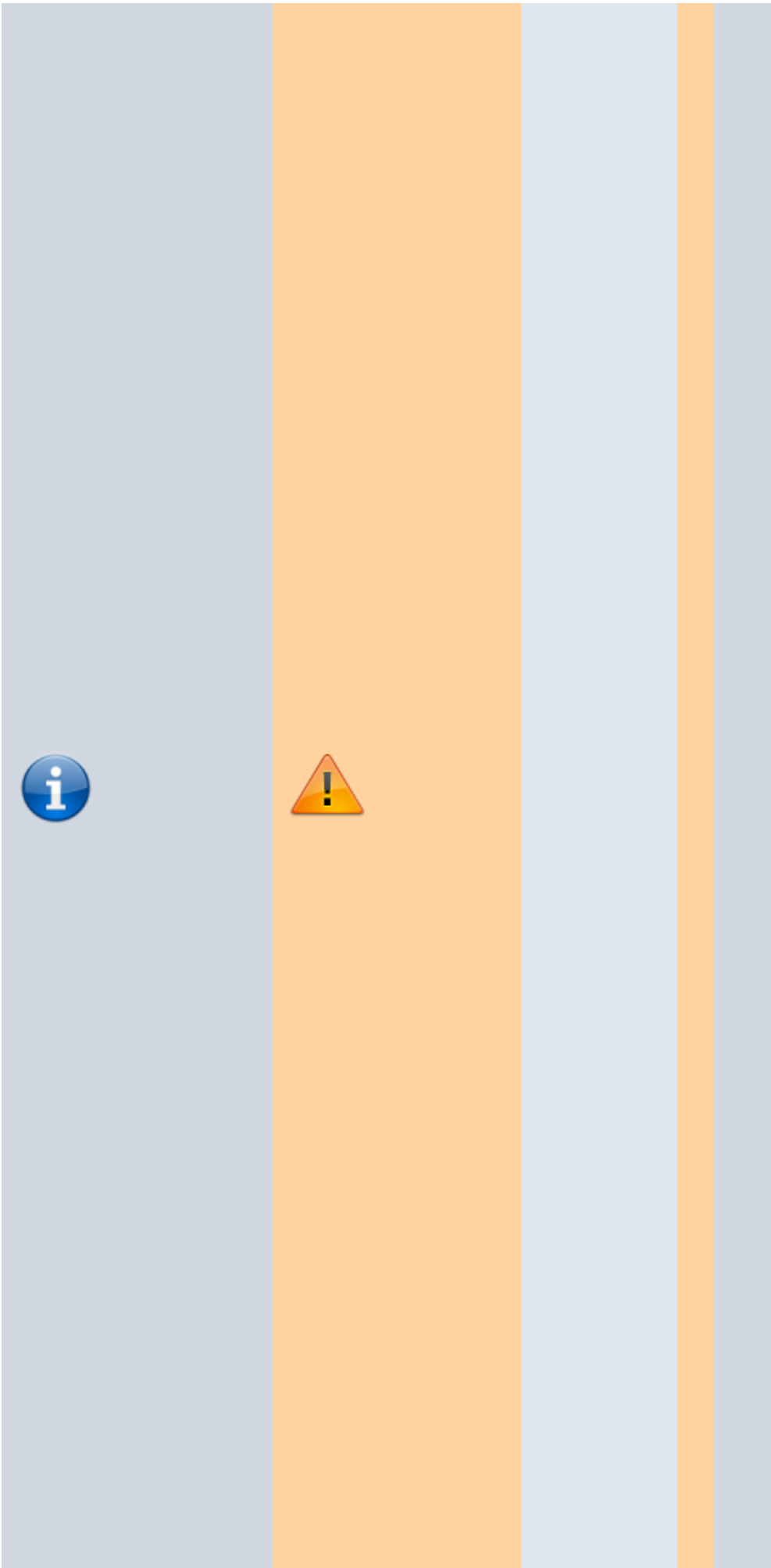


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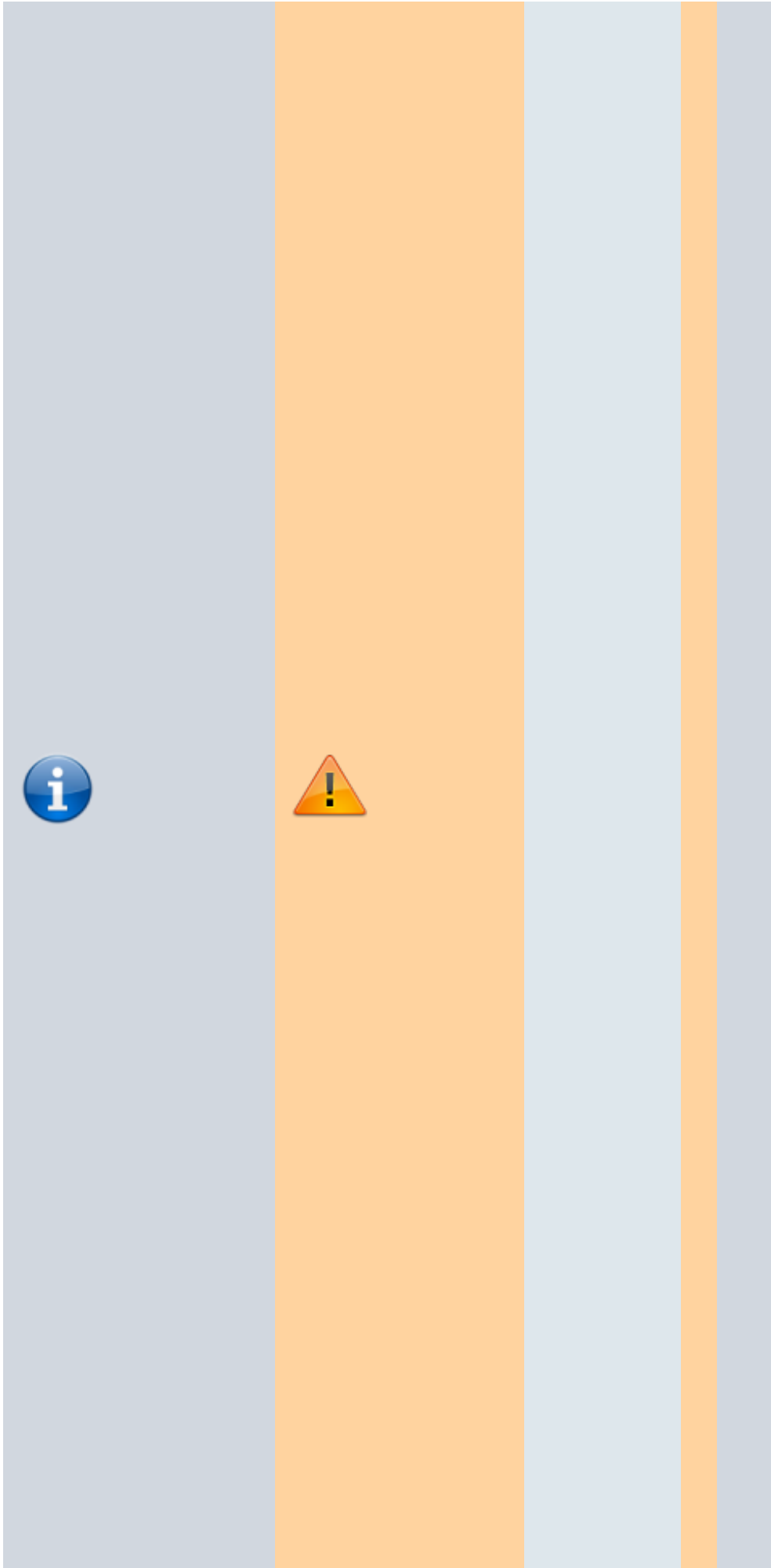


Installation on deb (9) :
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order hosts, bind





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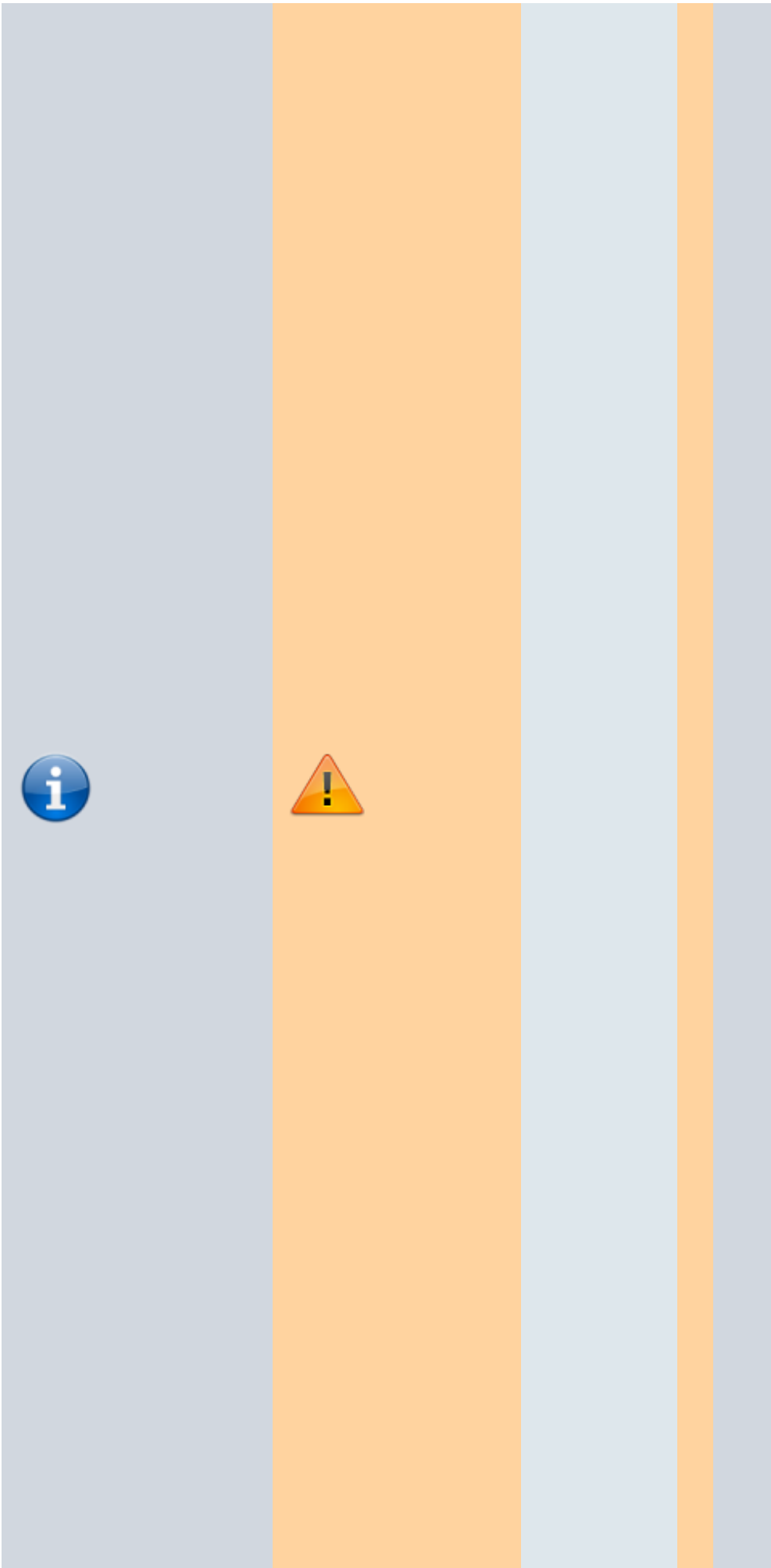
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The image shows a large rectangular area with a light blue background. A vertical orange bar is positioned in the center. To the left of the orange bar, there is a blue circular icon with a white lowercase letter 'i'. To the right of the orange bar, there is a yellow triangular warning icon with a black exclamation mark. A white rectangular box is partially visible on the right side of the image, overlapping the light blue background.

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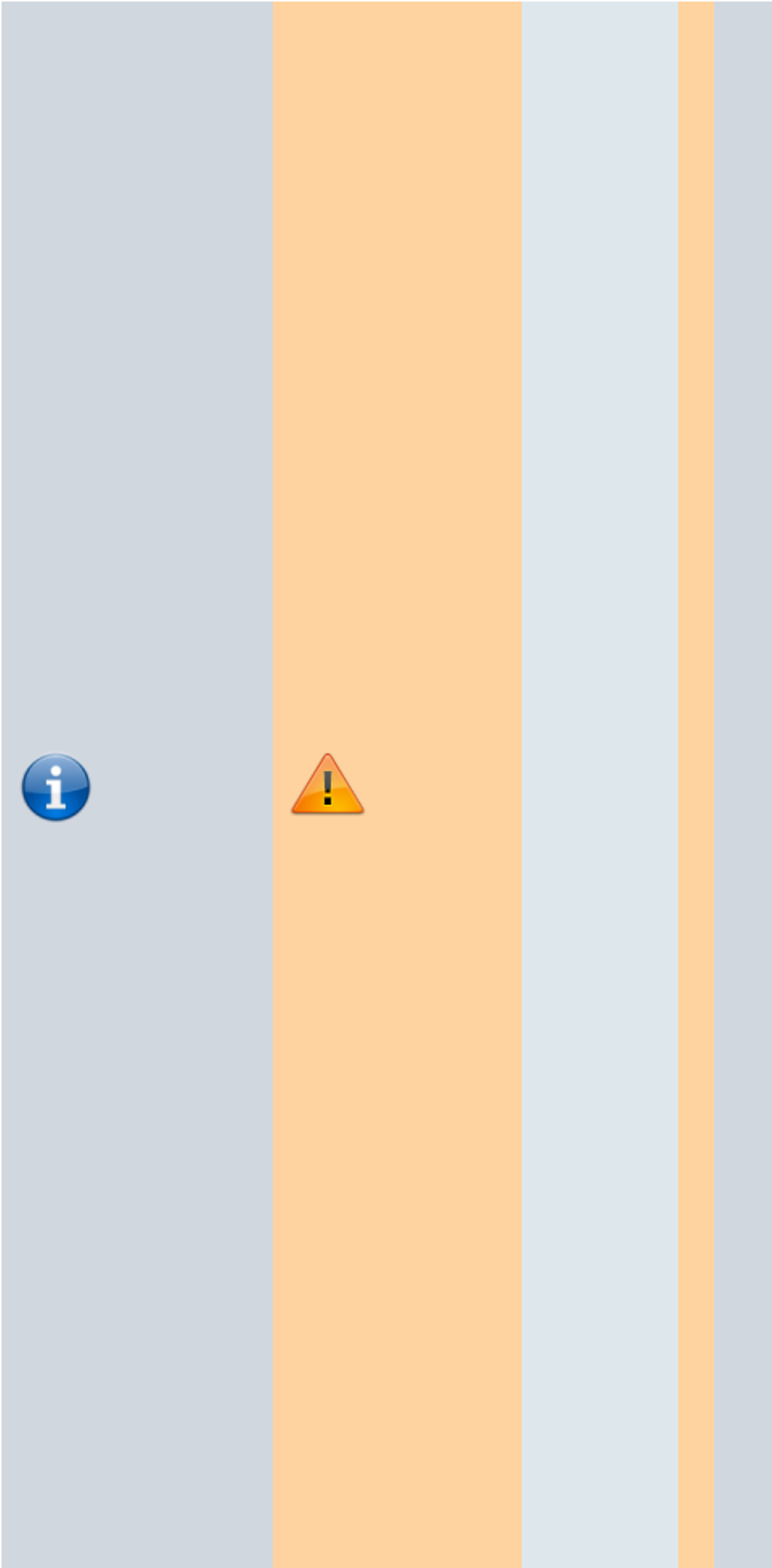
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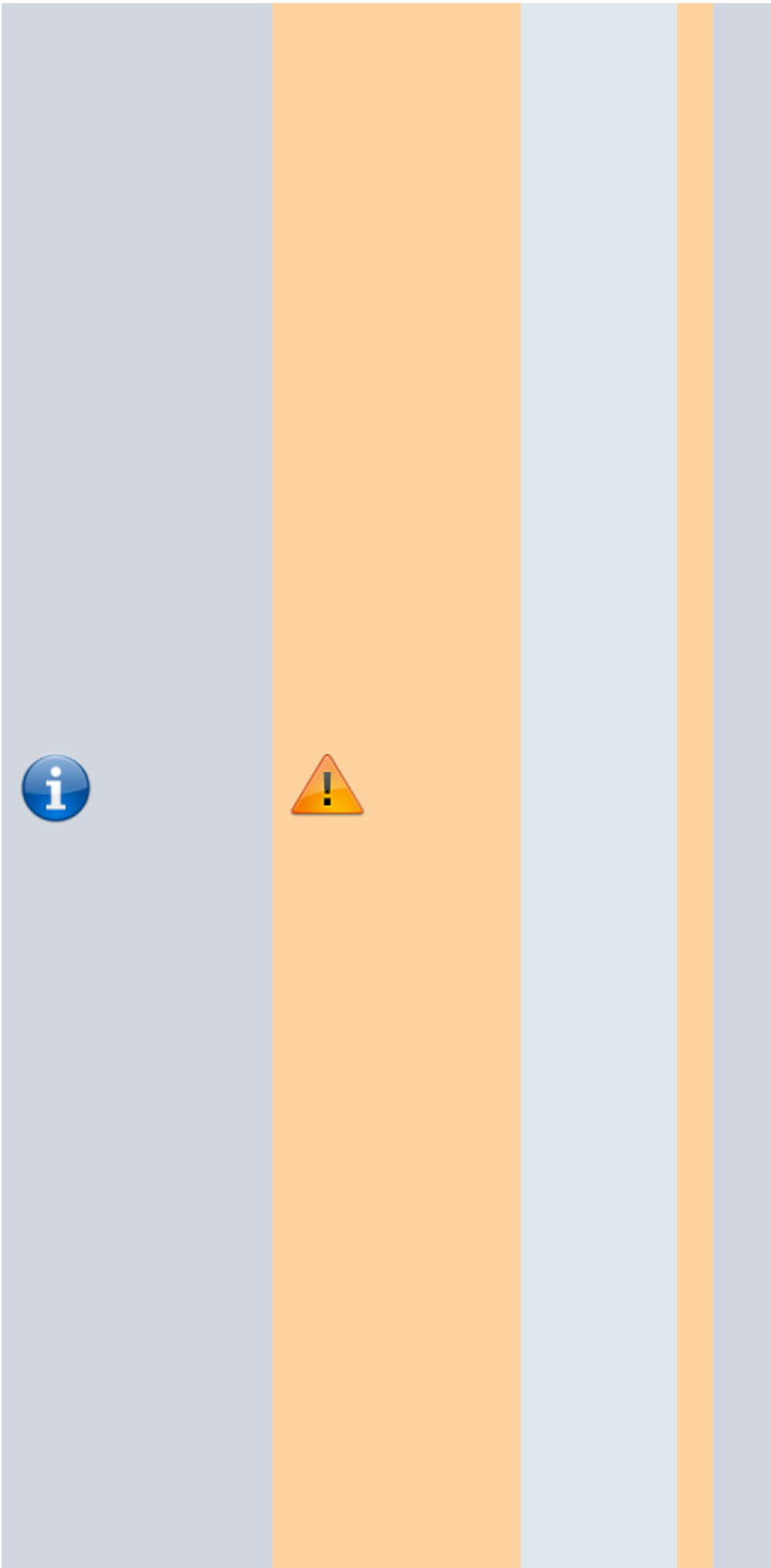


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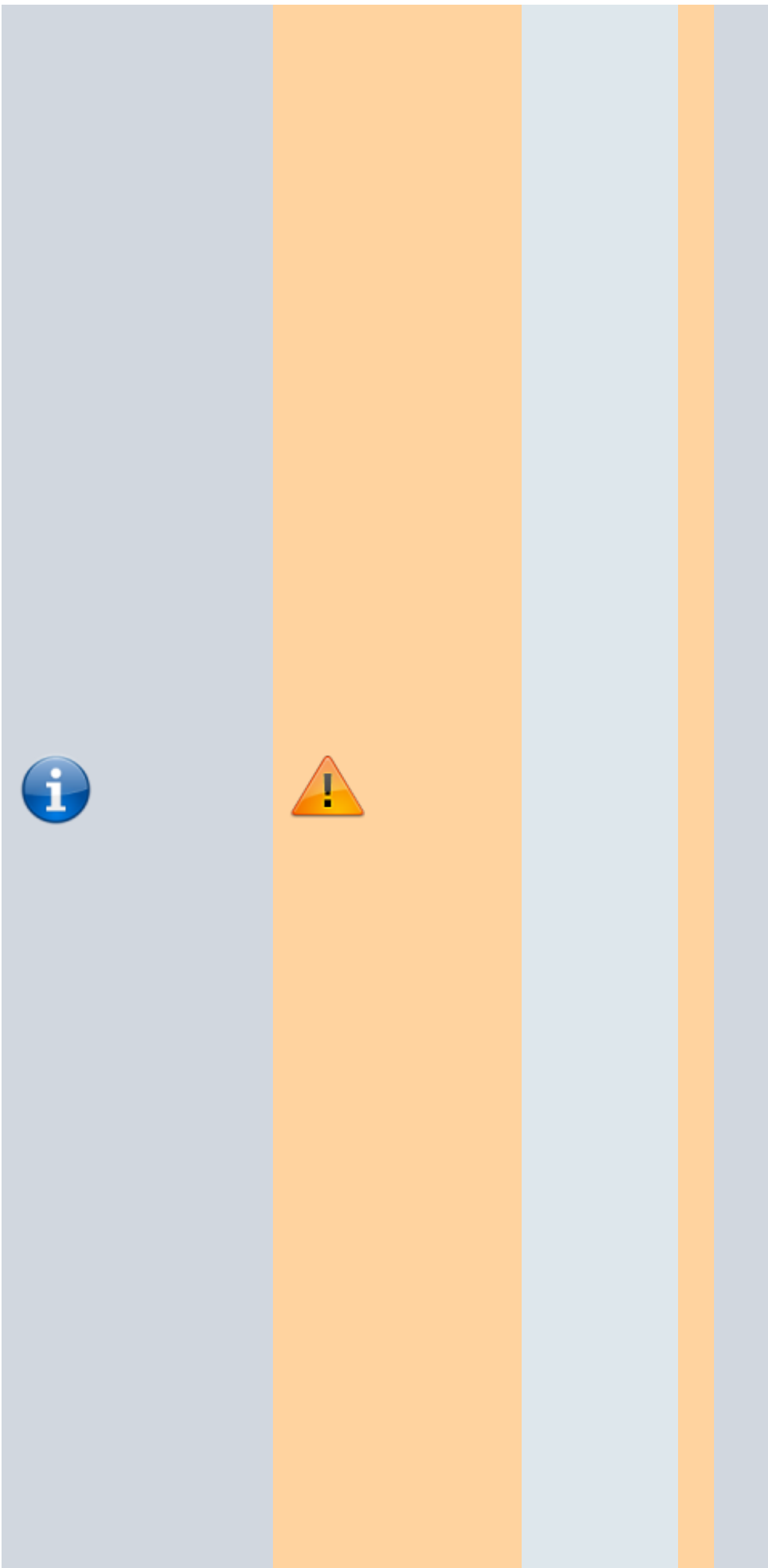


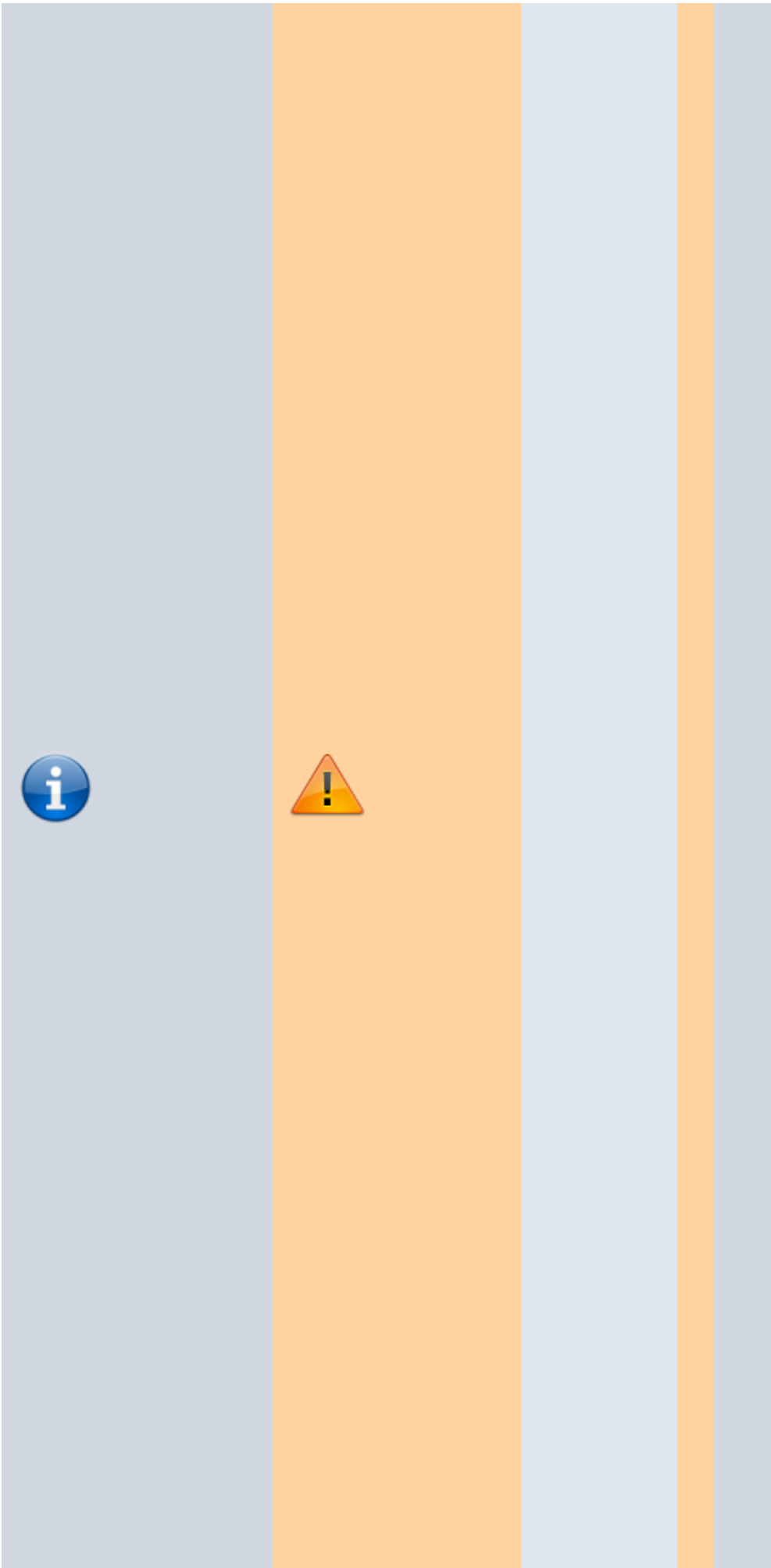
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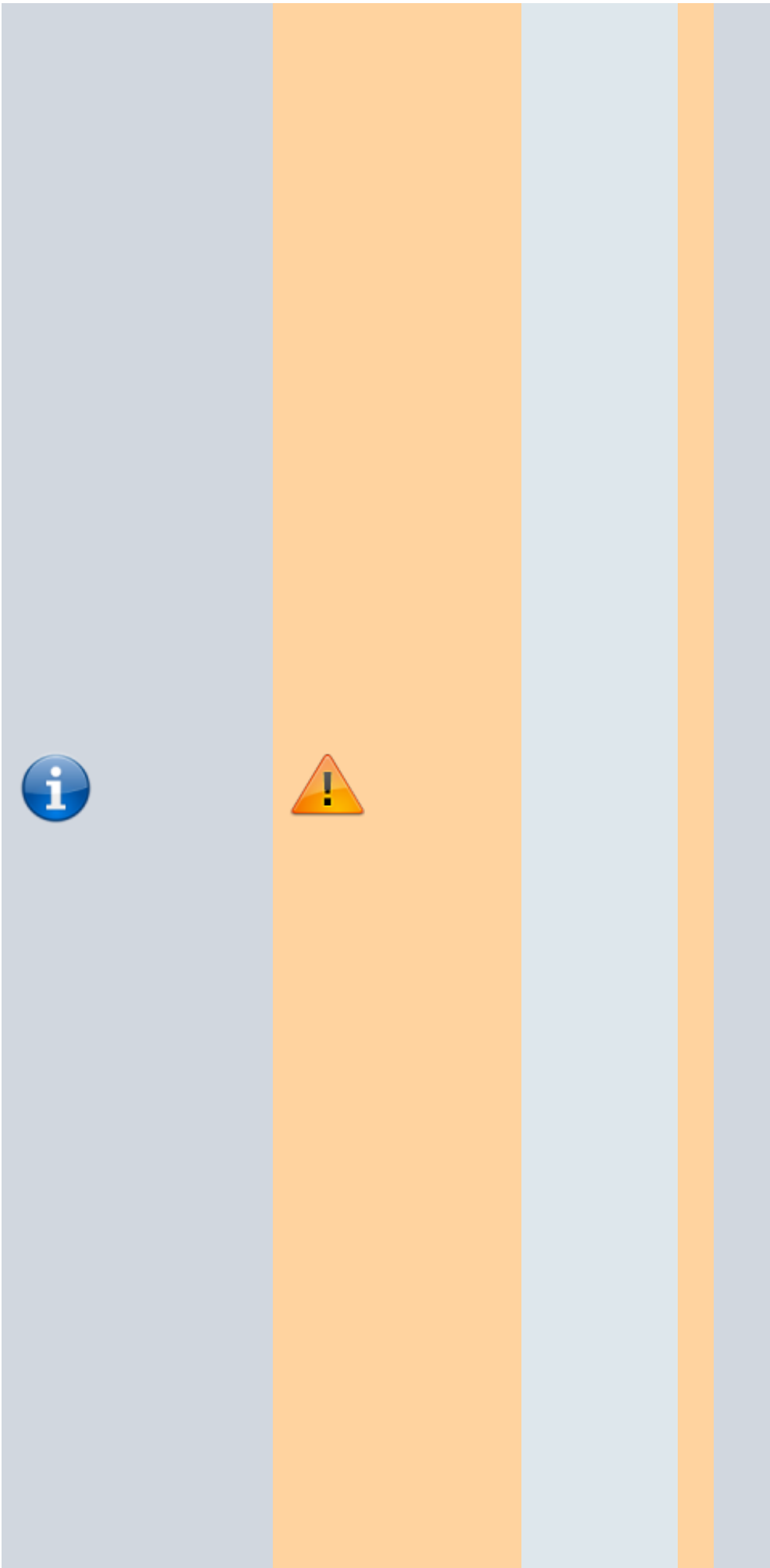


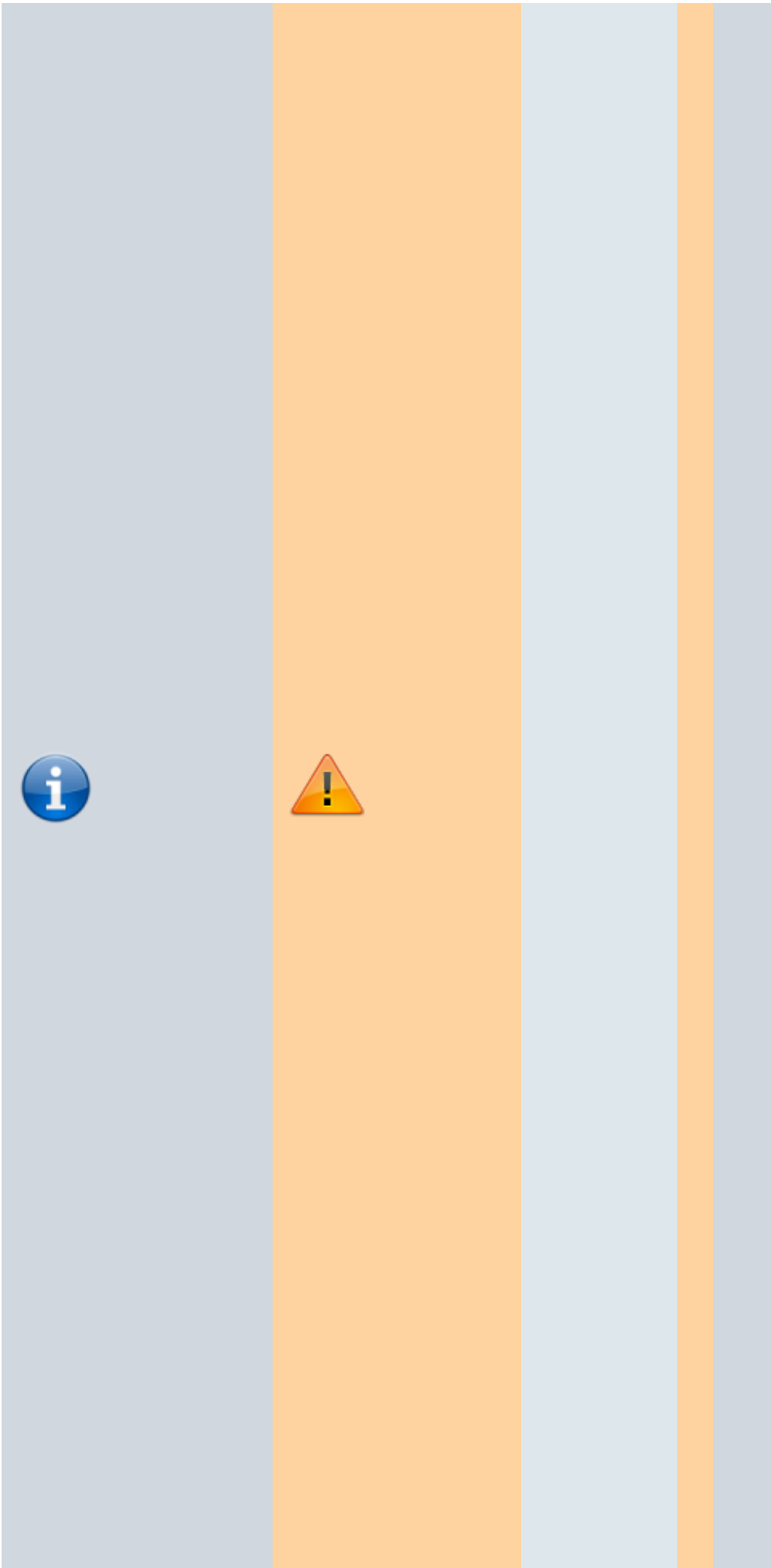
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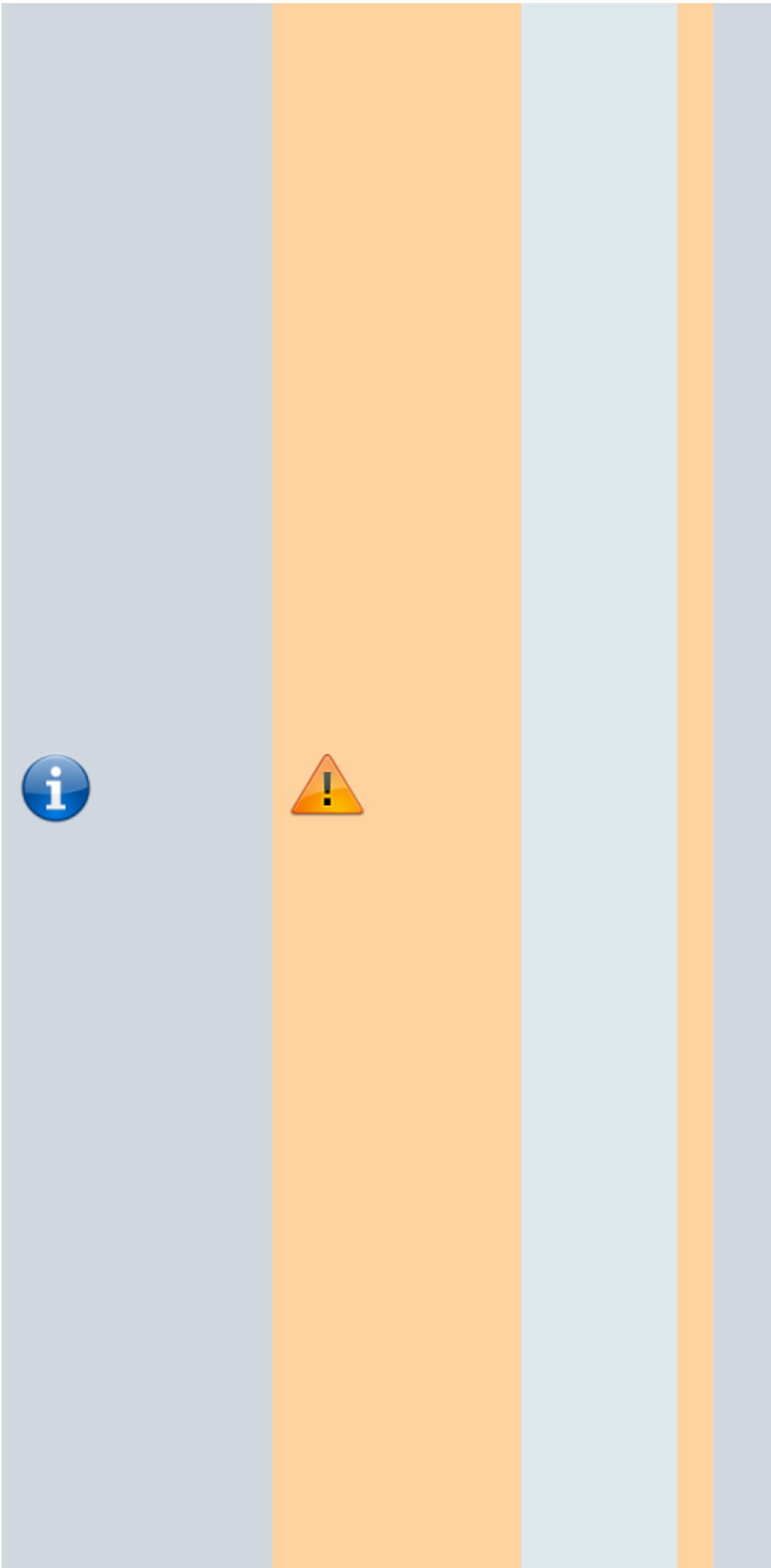
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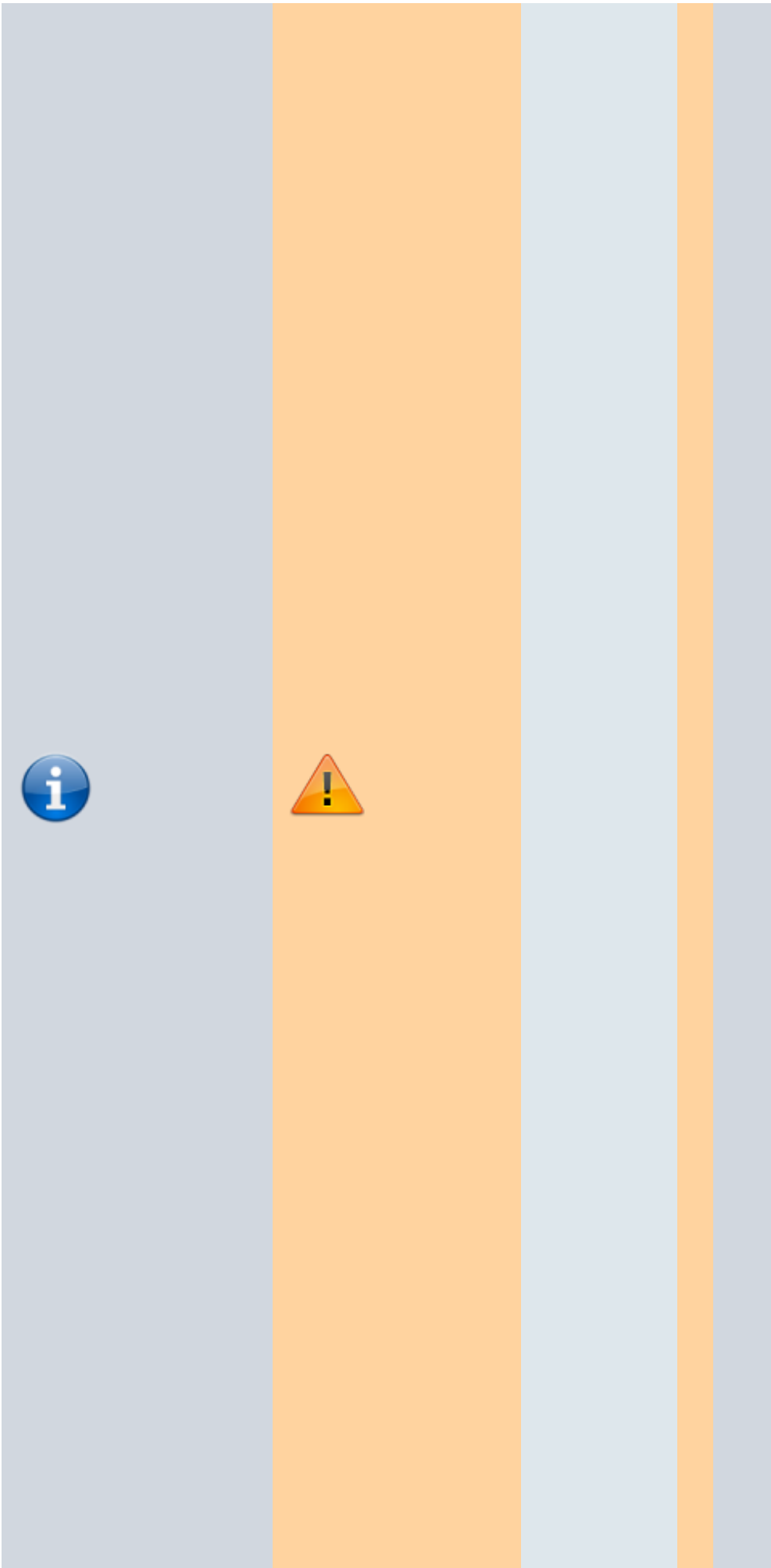


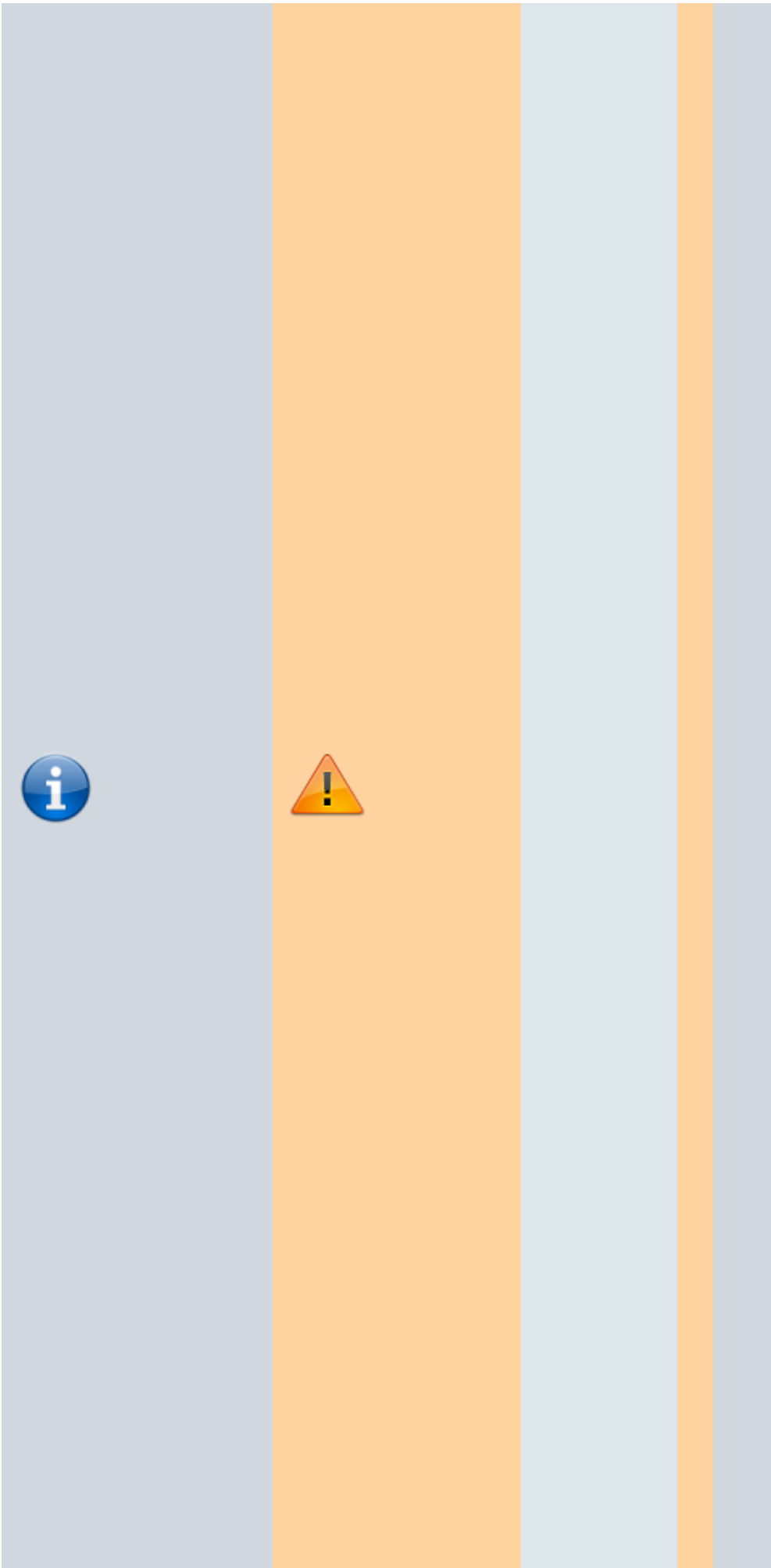


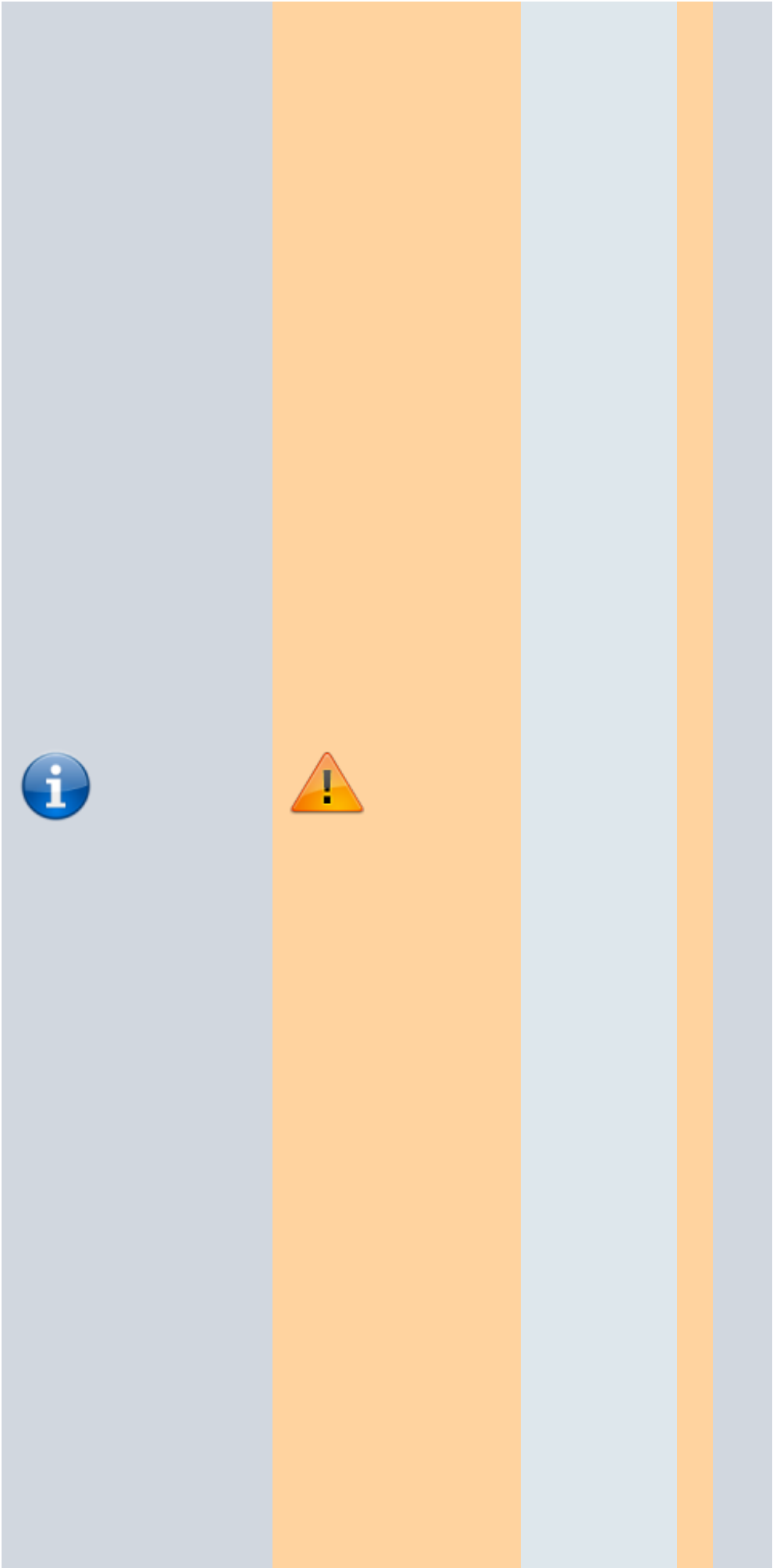


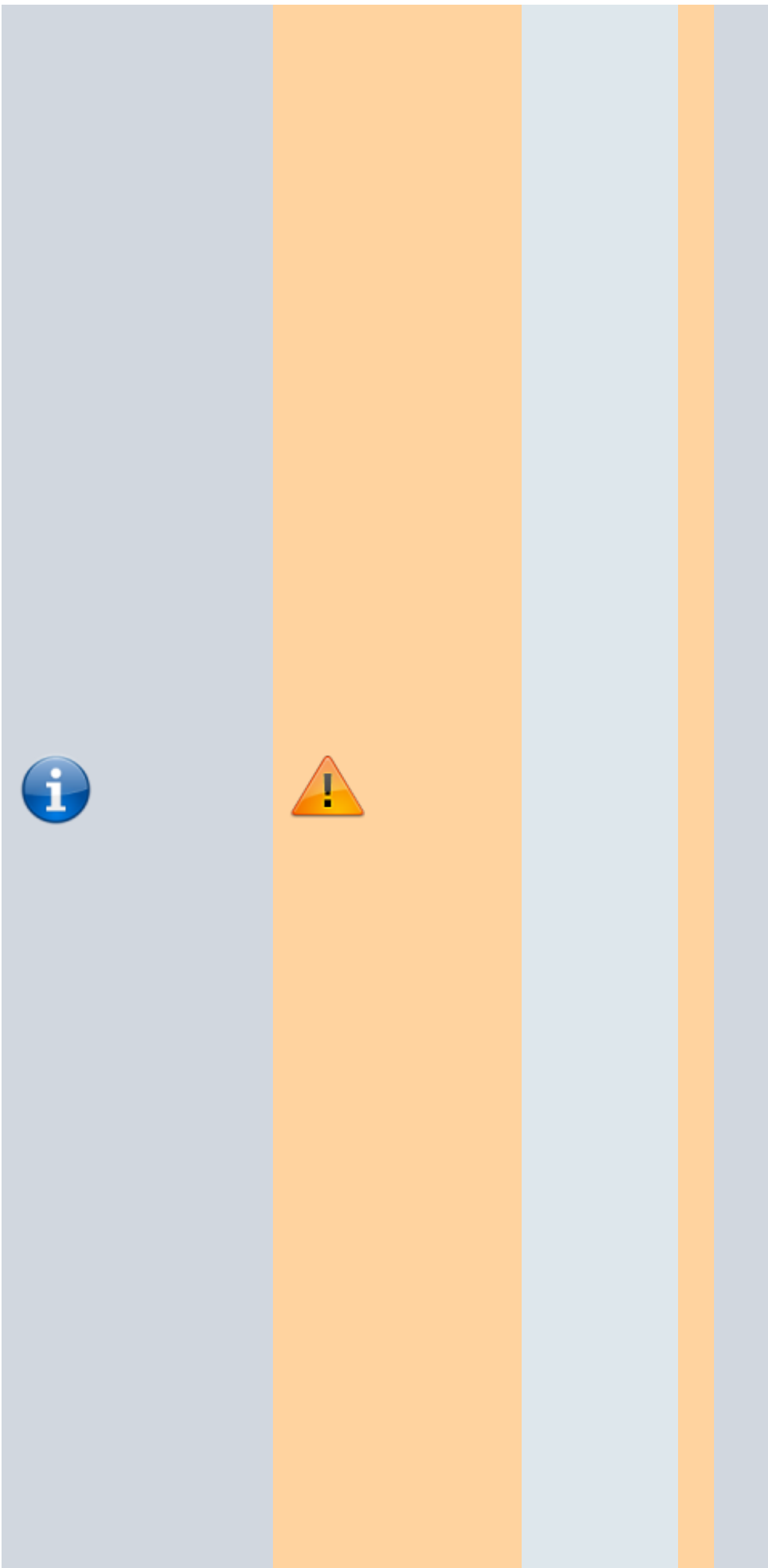


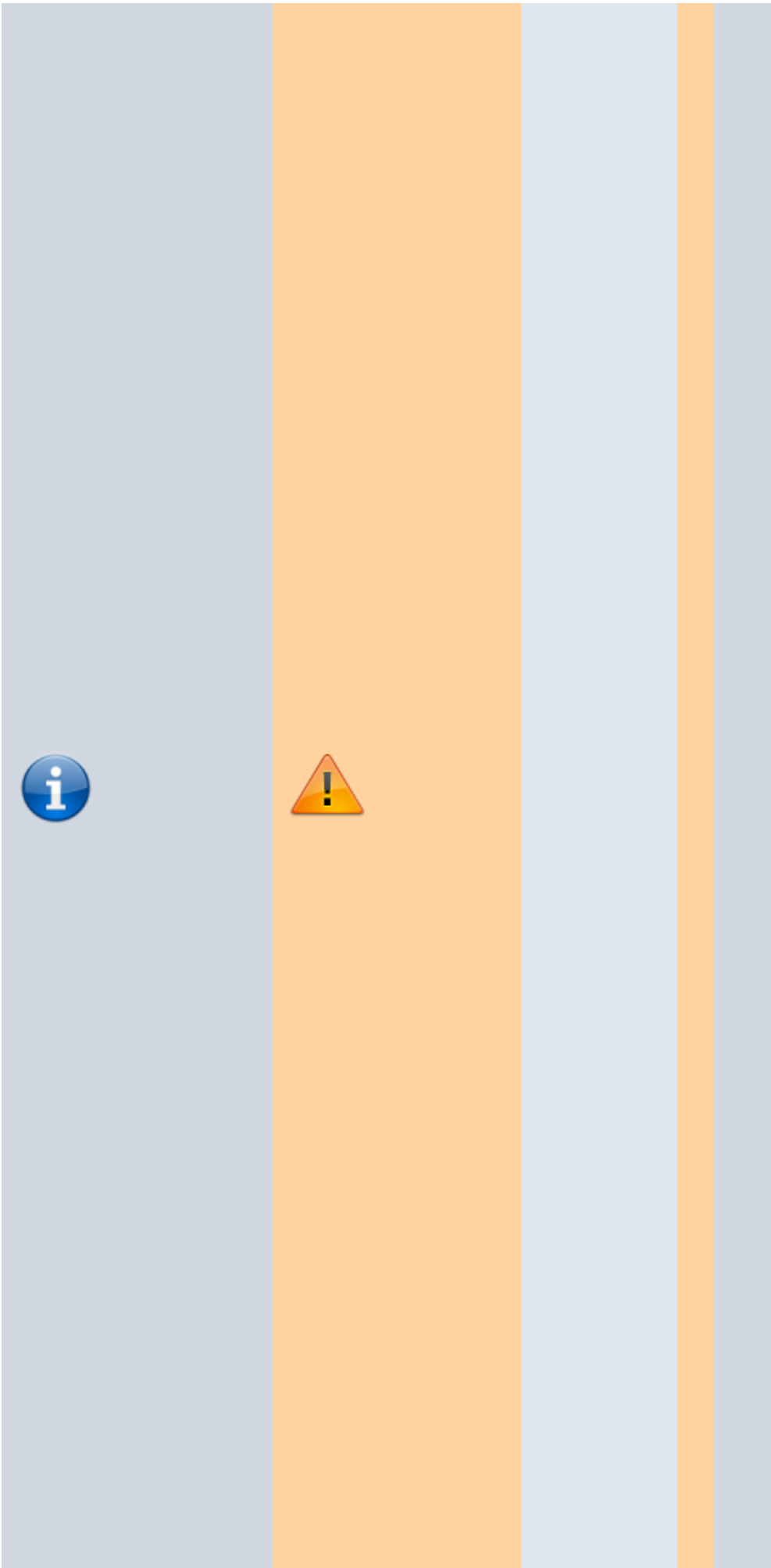


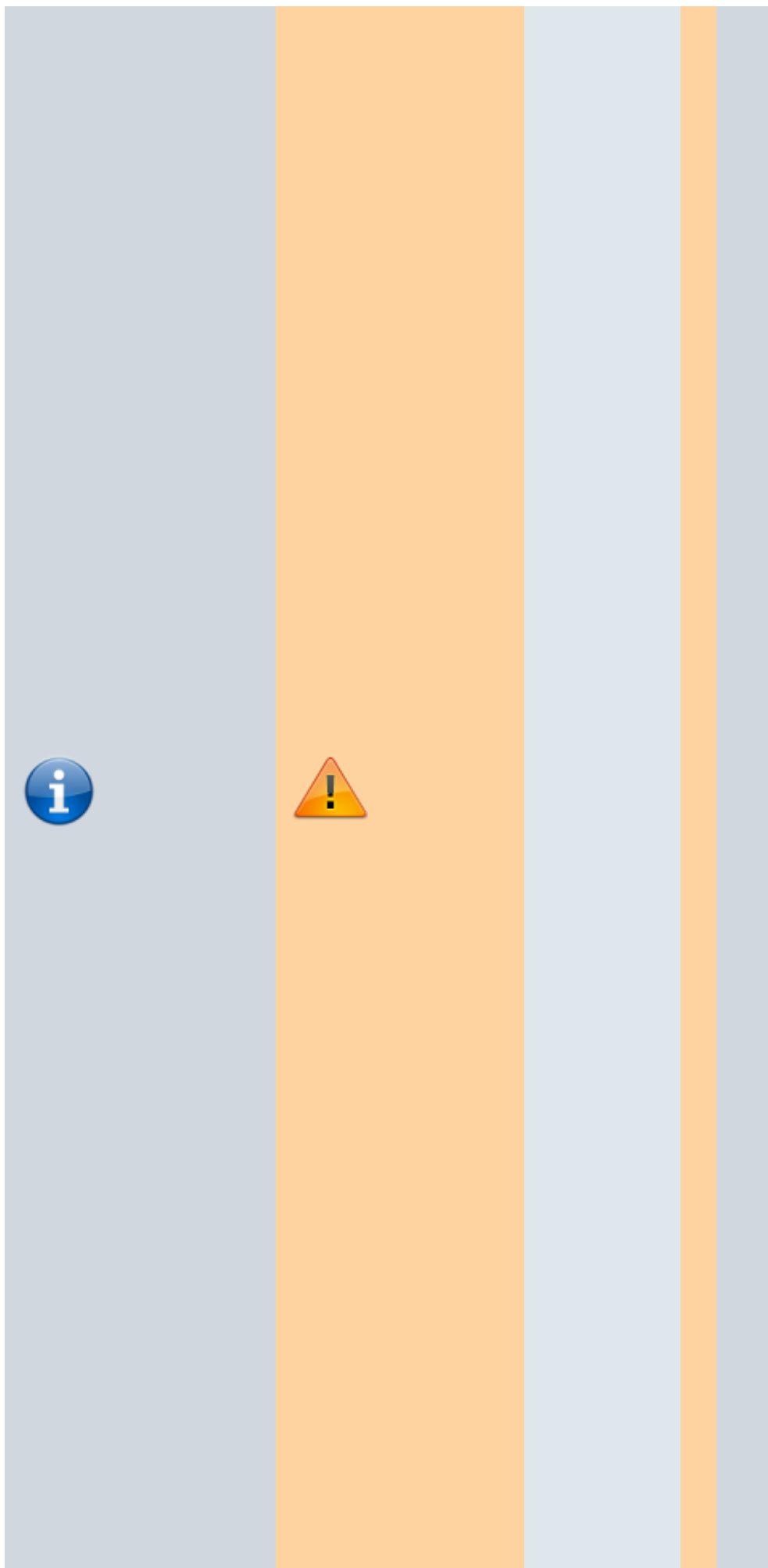












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