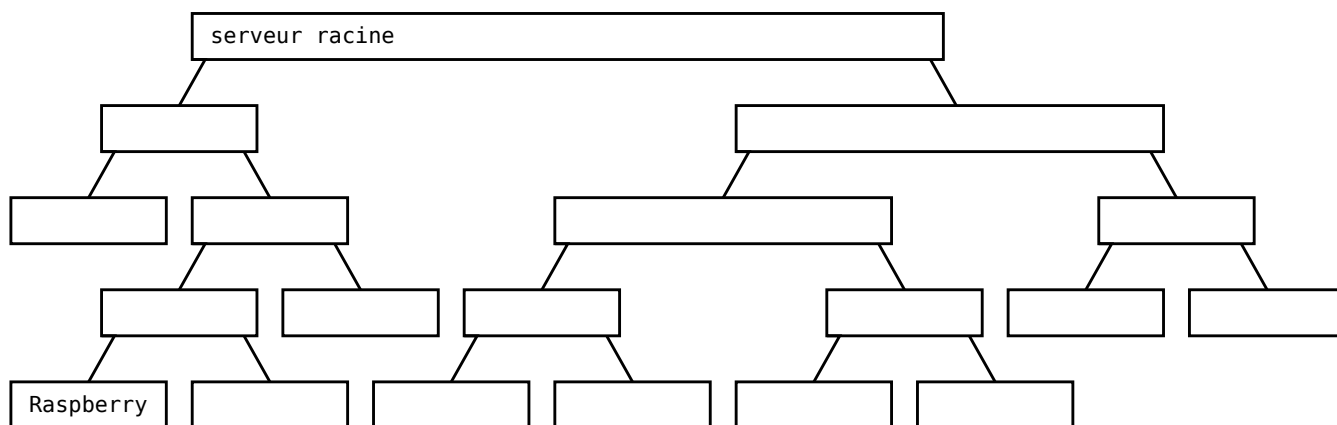
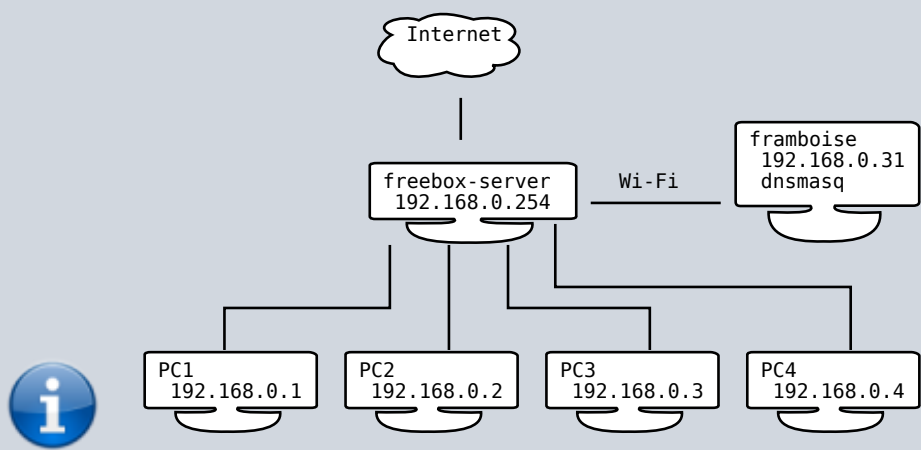


# DnsMasq : utiliser votre Raspberry Pi comme serveur DNS (et accélérer Internet)

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  
ttre  
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
.
#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  
t  
e  
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,inf
inite
#
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  
débogage,  
journal  
iser  
chaque  
requête  
DNS qui  
passe  
par  
Dnsmaq  
.log-  
queries
```

```
#  
journal  
iser  
beaucoup  
d'infor  
mations  
supplém  
entaires  
sur  
les  
transac  
tions  
DHCP.  
log-  
dhcp
```

**Fichier  
/etc/resolv.dnsmaq (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.dnsmaq](#)

```
# 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
.197.14
4

#
Google
nameserver
8.8.8.8
nameserver
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 <sup>1)</sup>

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.co  
nf](#)

```
# 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
```

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
```



```
# 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
.197.14
4

#
Google
nameserver
8.8.8.8
nameserver
4.4.4.4

#
Adresses à
forcer
address
```



```
=/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



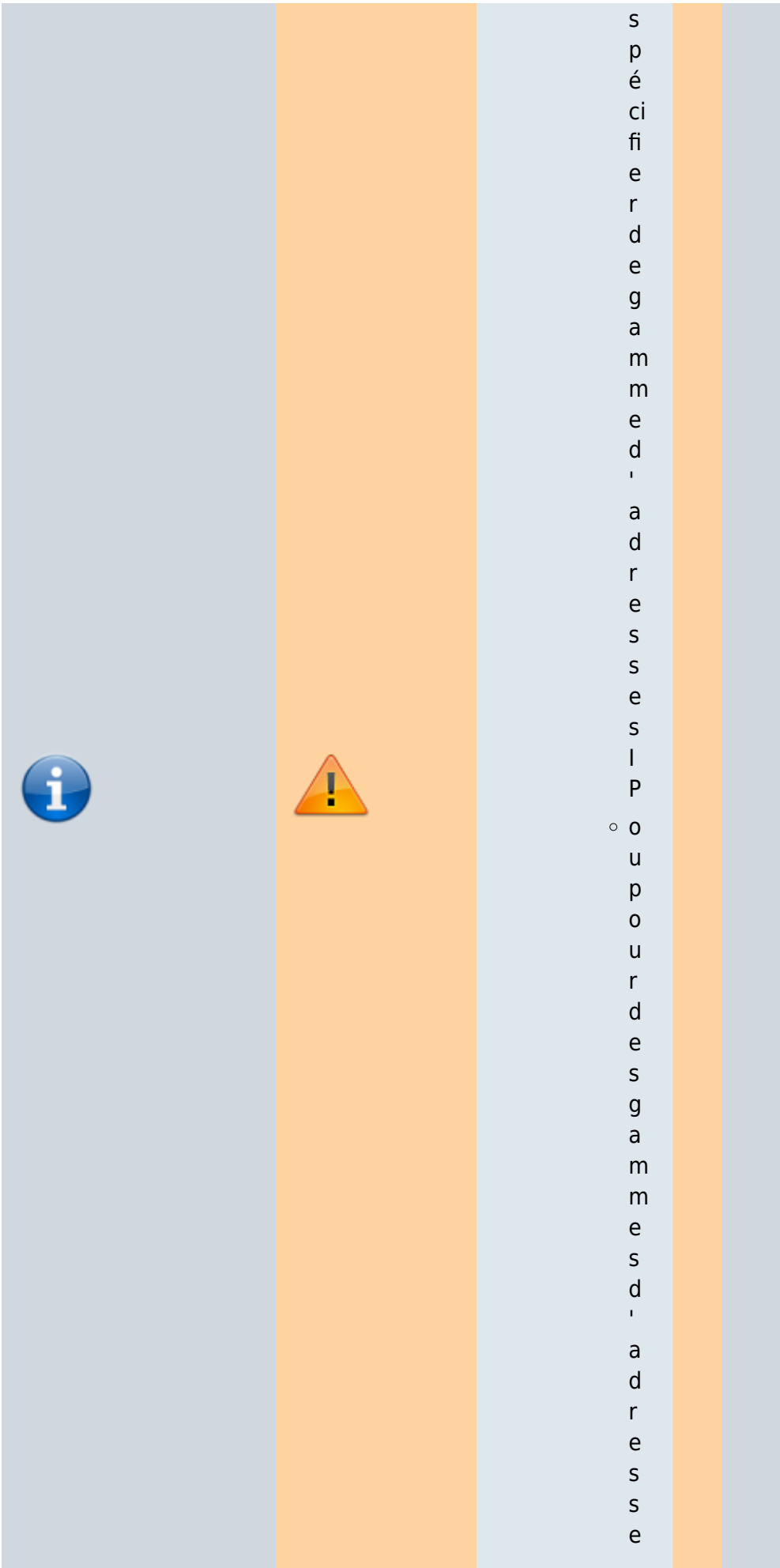
domain  
”.

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 list of DNS records, with the 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' written vertically. The text is in a monospaced font and is partially cut off on the right side.



S  
I  
P  
li  
m  
it  
é  
e  
s.

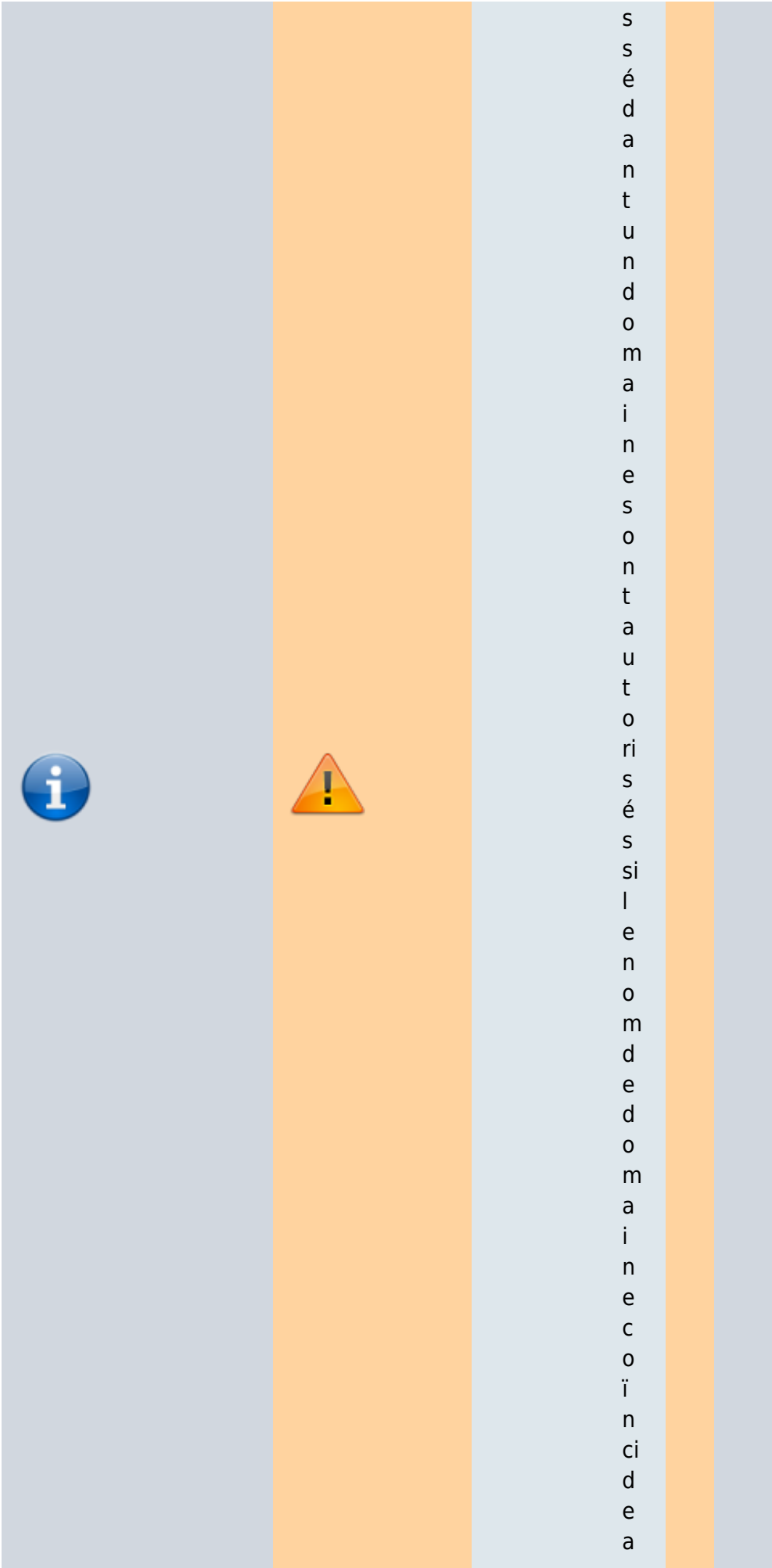
3. Cela a deux effets : le serveur DHCP retourne le domaine à tous les hôtes qui le demandent cela spécifie le domaine valide pour les hôtes DHCP configurés.

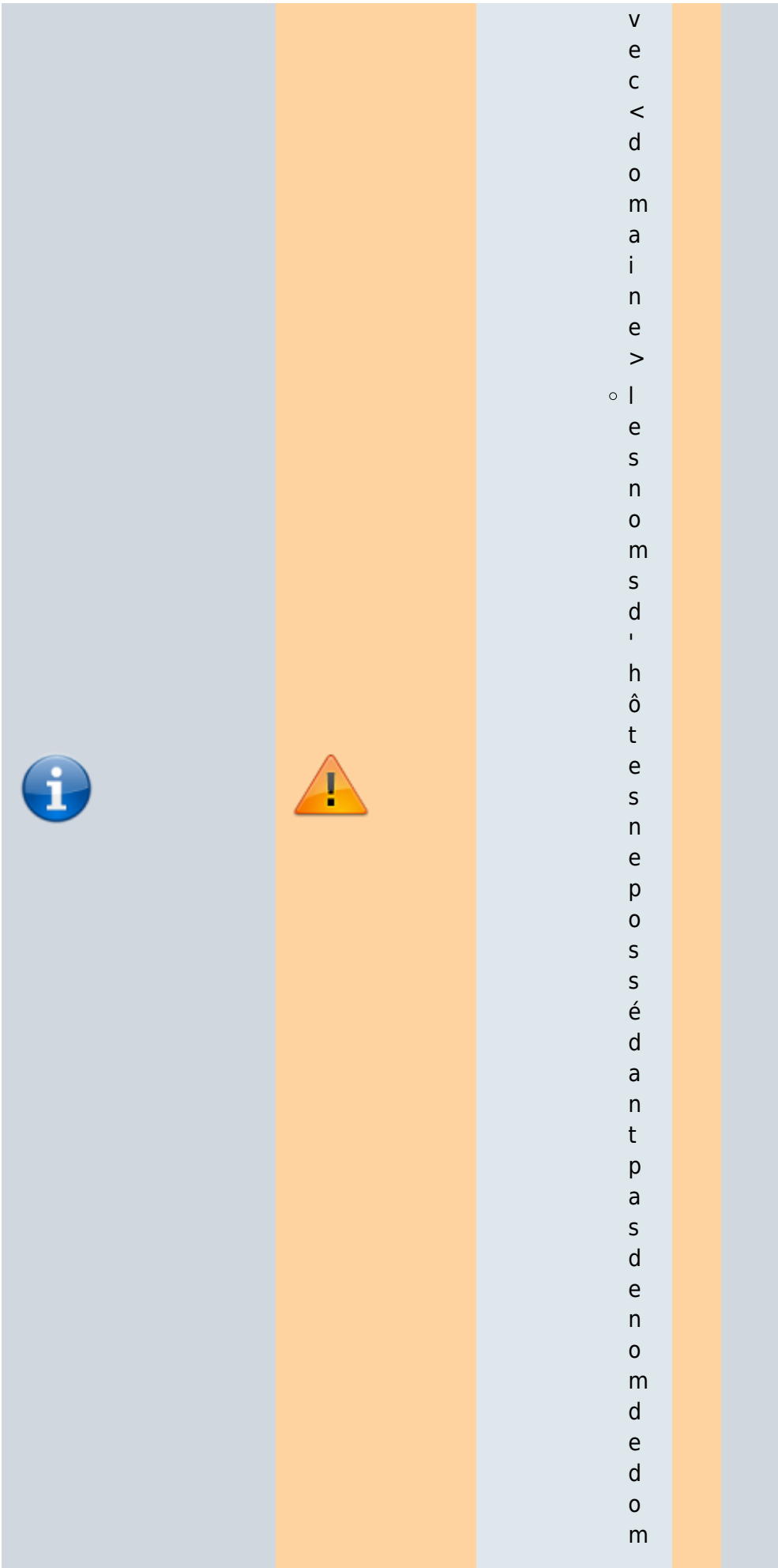
4. cela empêche un hôte sur le LAN de fournir via DHCP un nom tel que par exemple "microsoft.com"



” et capture r illégitimement du trafic.

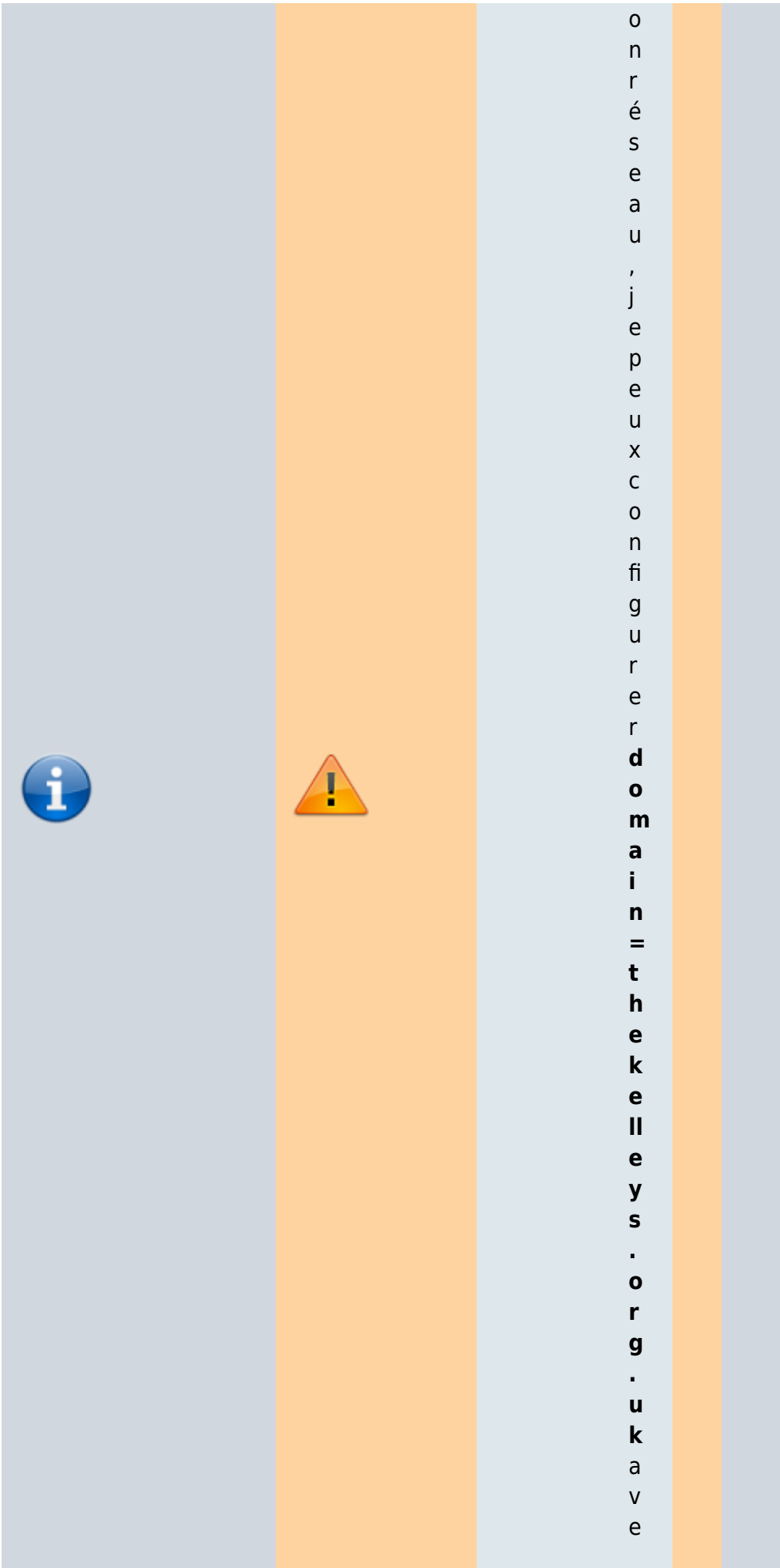
5. Si aucun nom de domaine n'est spécifié, les noms d'hôtes avec un nom de domaine (avec un point) seront interdits et enregistrés dans le journal (logs).
6. Si un suffixe est fourni,
  - l e s n o m s d ' h ô t e s p o



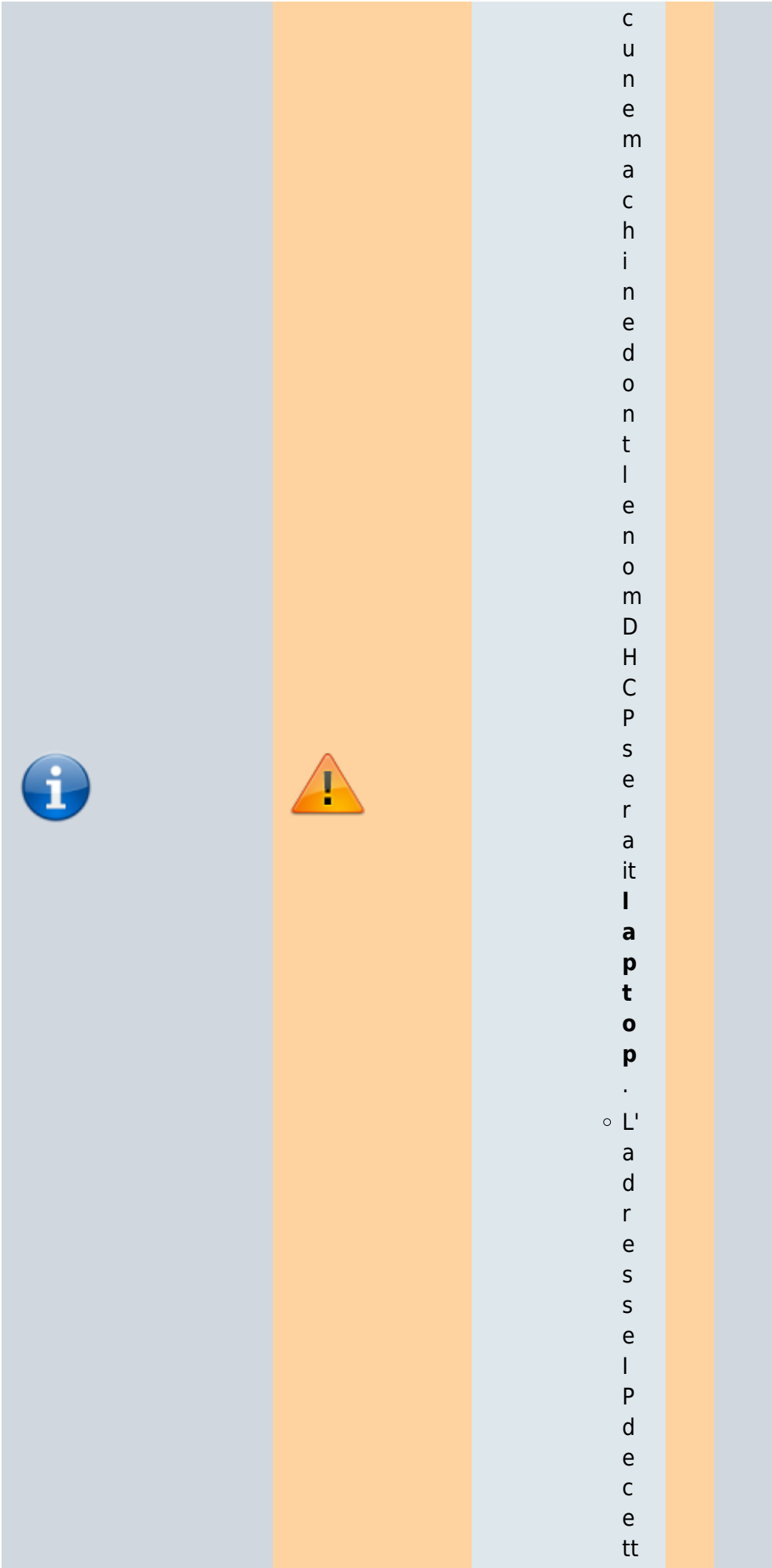


- ve
- c
- <
- d
- o
- m
- a
- i
- n
- e
- >
- l
- e
- s
- n
- o
- m
- s
- d
- '
- h
- ô
- t
- e
- s
- n
- e
- p
- o
- s
- s
- é
- d
- a
- n
- t
- p
- a
- s
- d
- e
- n
- o
- m
- d
- e
- d
- o
- m

a  
i  
n  
e  
s  
e  
v  
o  
i  
e  
n  
t  
r  
a  
j  
o  
u  
t  
e  
r  
l  
e  
s  
u  
f  
f  
i  
x  
e  
<  
d  
o  
m  
a  
i  
n  
e  
>  
o  
p  
a  
r  
e  
x  
e  
m  
p  
l  
e  
,  
s  
u  
r  
m



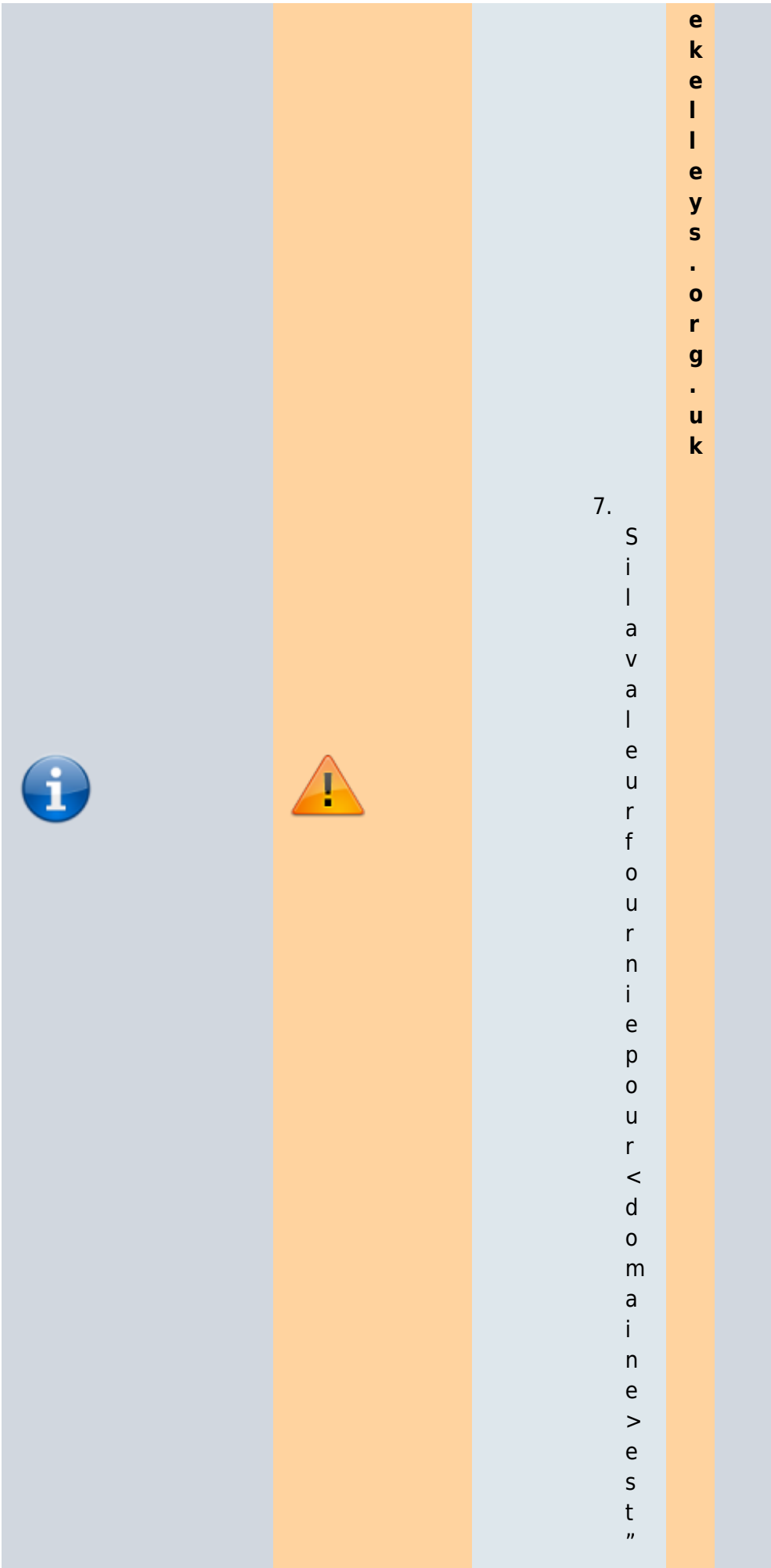
o  
n  
r  
é  
s  
e  
a  
u  
,  
j  
e  
p  
e  
u  
x  
c  
o  
n  
f  
i  
g  
u  
r  
e  
r  
**d**  
**o**  
**m**  
**a**  
**i**  
**n**  
**=**  
**t**  
**h**  
**e**  
**k**  
**e**  
**l**  
**l**  
**e**  
**y**  
**s**  
**.**  
**o**  
**r**  
**g**  
**.**  
**u**  
**k**  
**a**  
**v**  
**e**





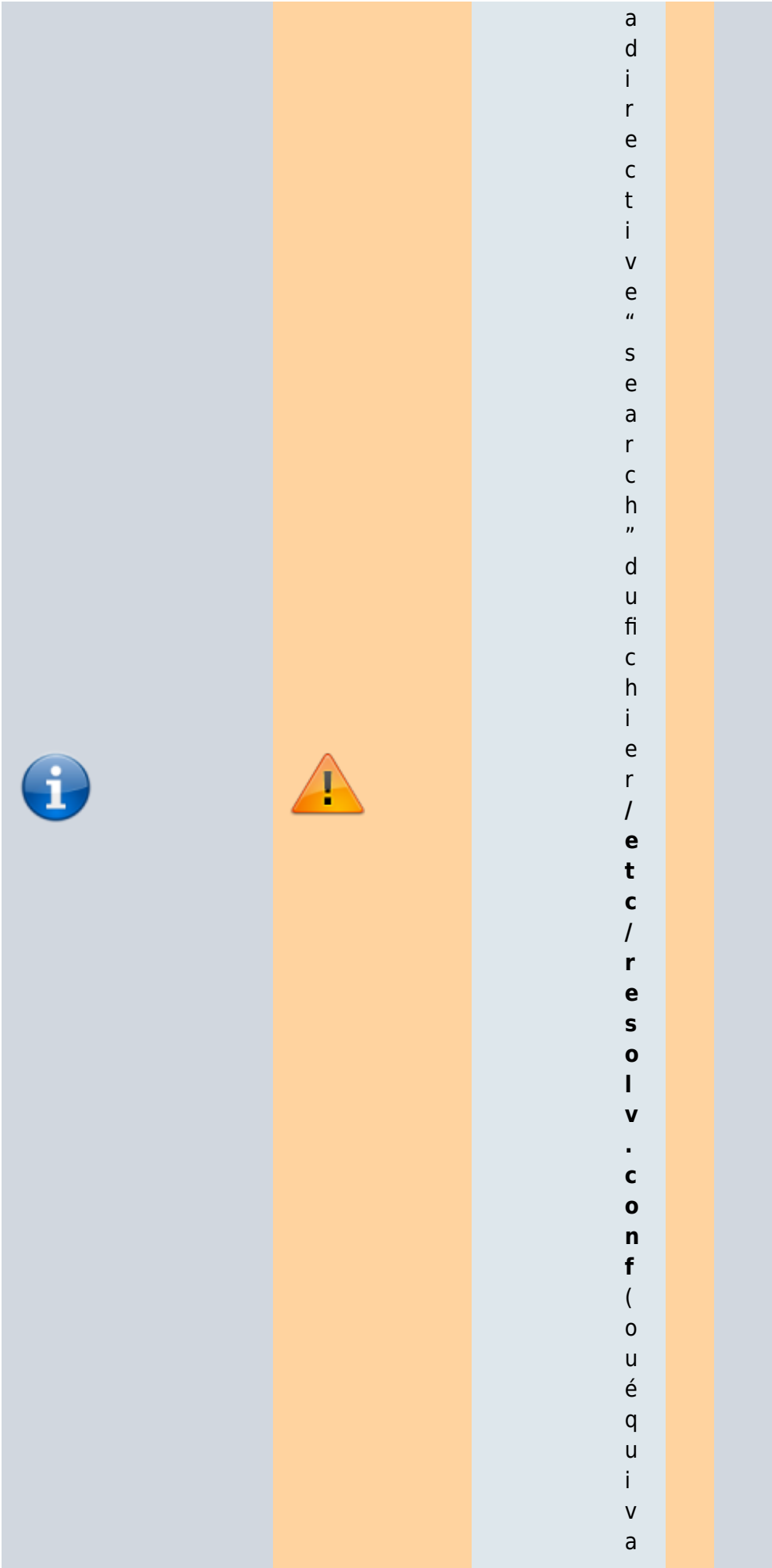


e  
m  
a  
c  
h  
i  
n  
e  
s  
e  
r  
a  
d  
i  
s  
p  
o  
n  
i  
b  
l  
e  
à  
l  
a  
f  
o  
i  
s

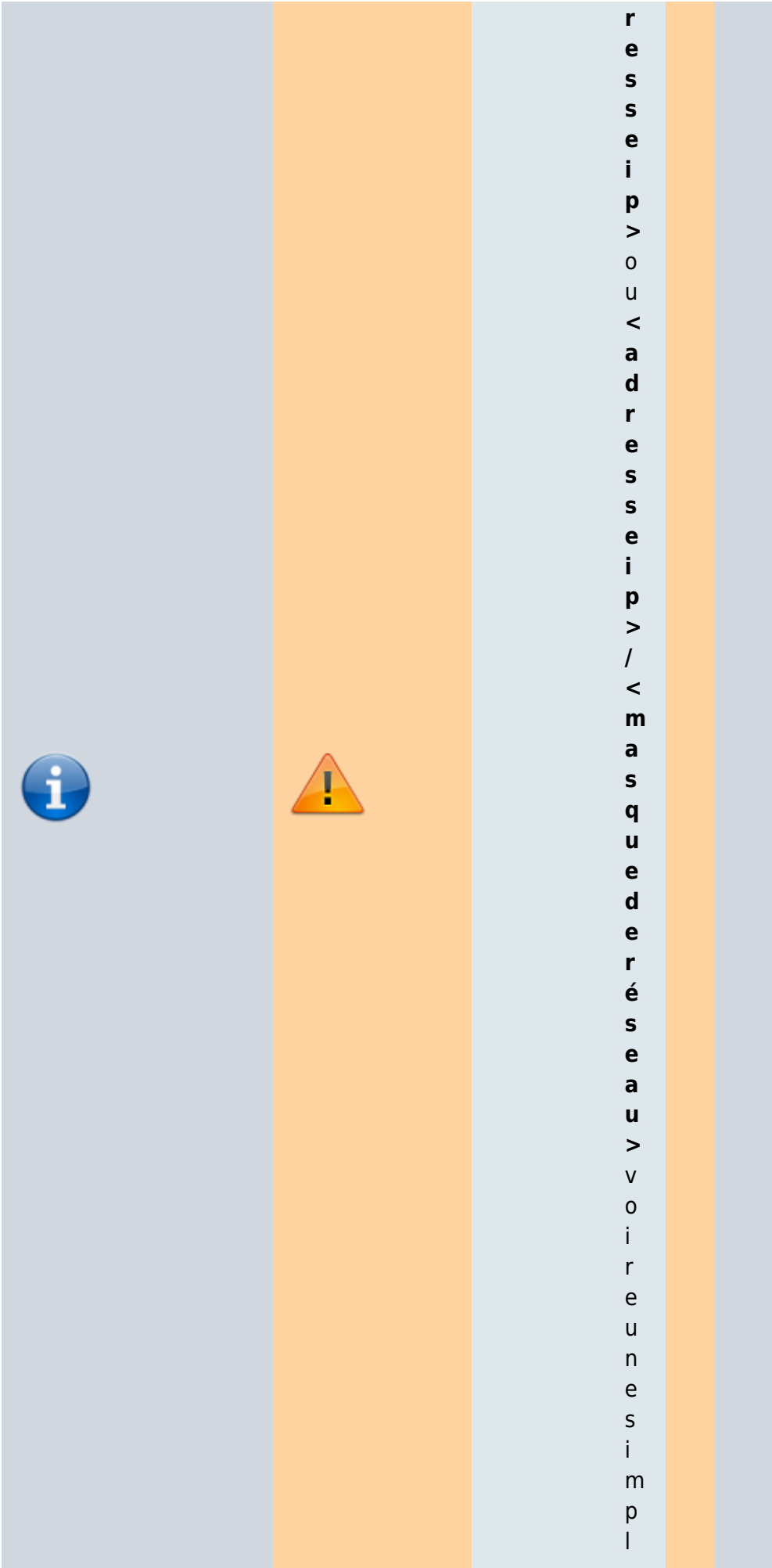
▪ p  
o  
u  
r  
l  
a  
p  
t  
o  
p  
▪ e  
t  
l  
a  
p  
t  
o  
p  
·  
t  
h

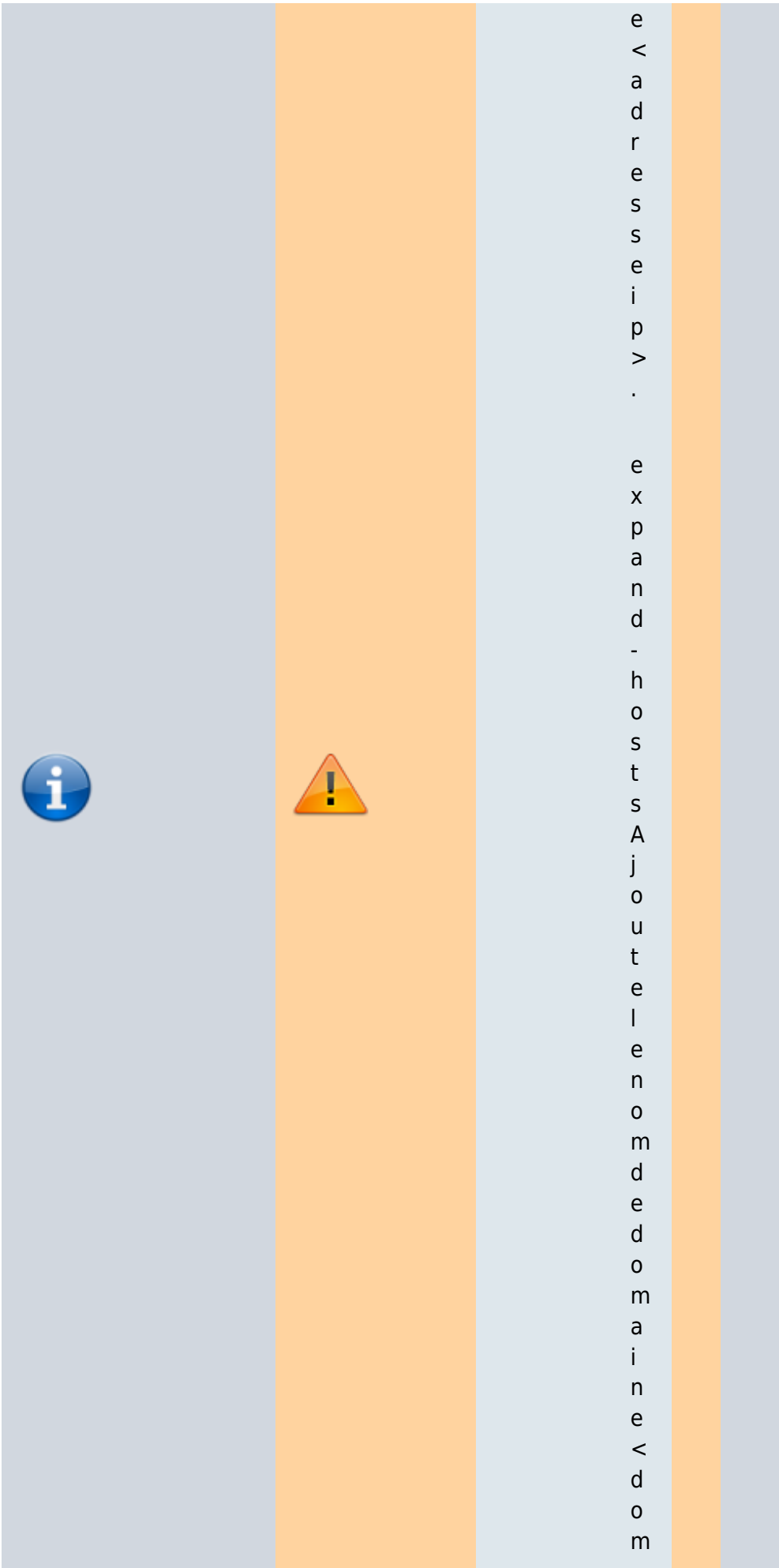


		# " , l e n o m d e d o m a i n e e s t p o s i t i o n n é à l a p r e m i è r e v a l e u r d e l	
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

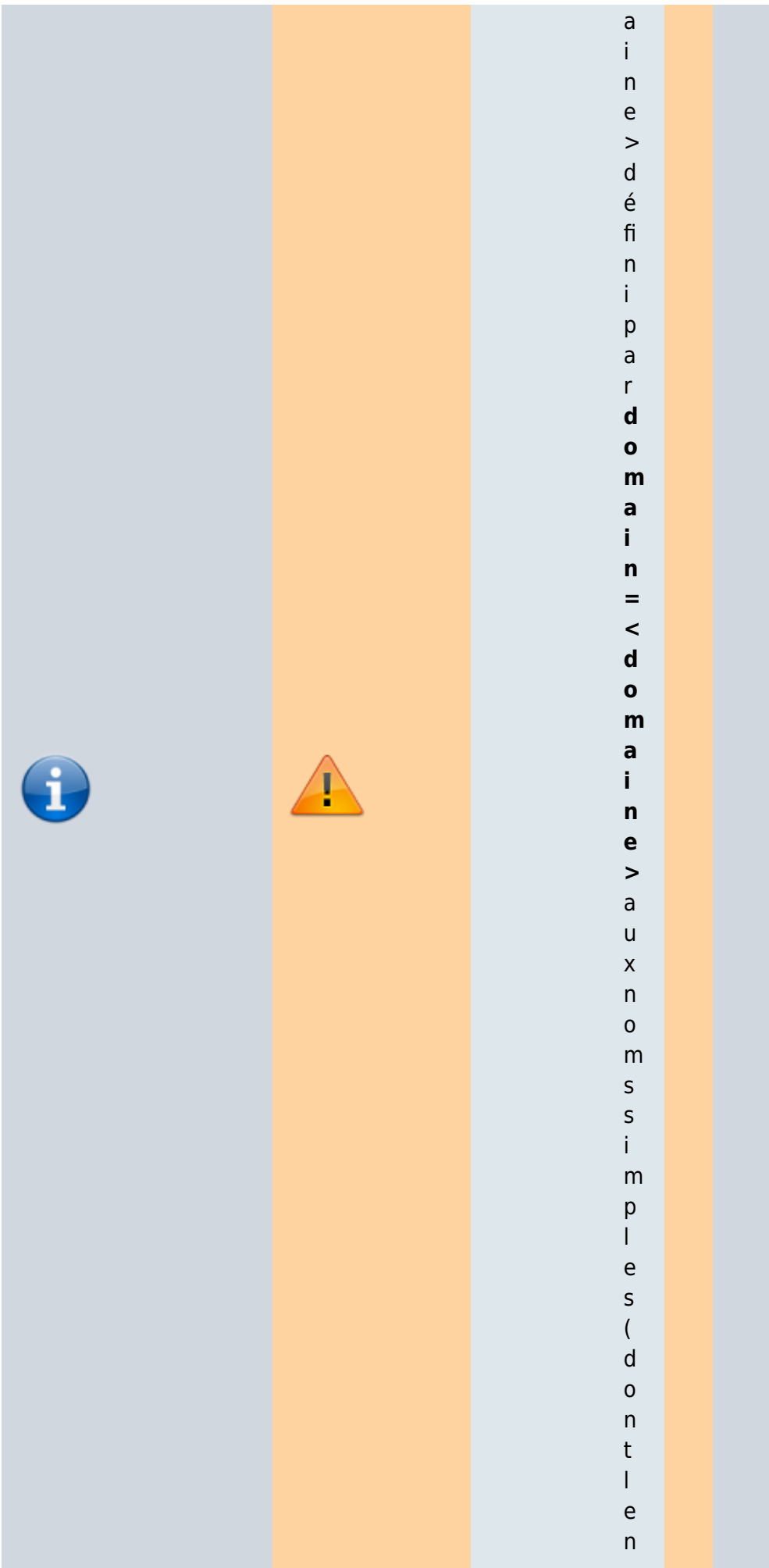


l  
e  
n  
t  
)  
.  
8. L  
a  
g  
a  
m  
m  
e  
d  
,  
a  
d  
r  
e  
s  
s  
e  
s  
t  
d  
e  
l  
a  
f  
o  
r  
m  
e  
<  
a  
d  
r  
e  
s  
s  
e  
i  
p  
v  
,  
<  
a  
d





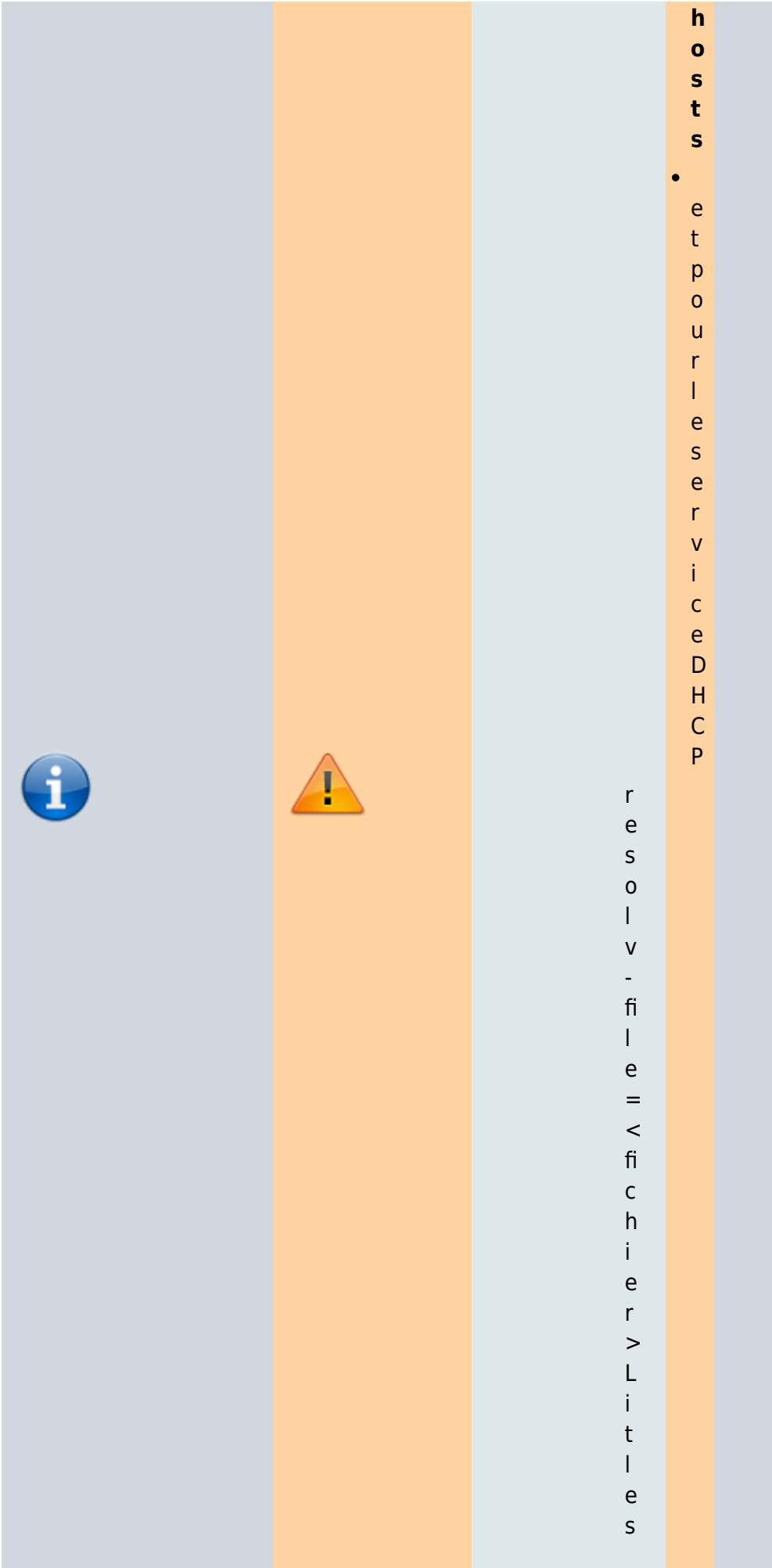
The navigation bar consists of three vertical sections. The leftmost section is light blue and contains a blue circular icon with a white lowercase letter 'i'. The middle section is orange and contains a yellow triangular warning icon with a black exclamation mark. The rightmost section is light blue and contains a vertical list of menu items: 'e', '<', 'a', 'd', 'r', 'e', 's', 's', 'e', 'i', 'p', '>', '.', 'e', 'x', 'p', 'a', 'n', 'd', '-', 'h', 'o', 's', 't', 's', 'A', 'j', 'o', 'u', 't', 'e', 'l', 'e', 'n', 'o', 'm', 'd', 'e', 'd', 'o', 'm', 'a', 'i', 'n', 'e', '<', 'd', 'o', 'm'.

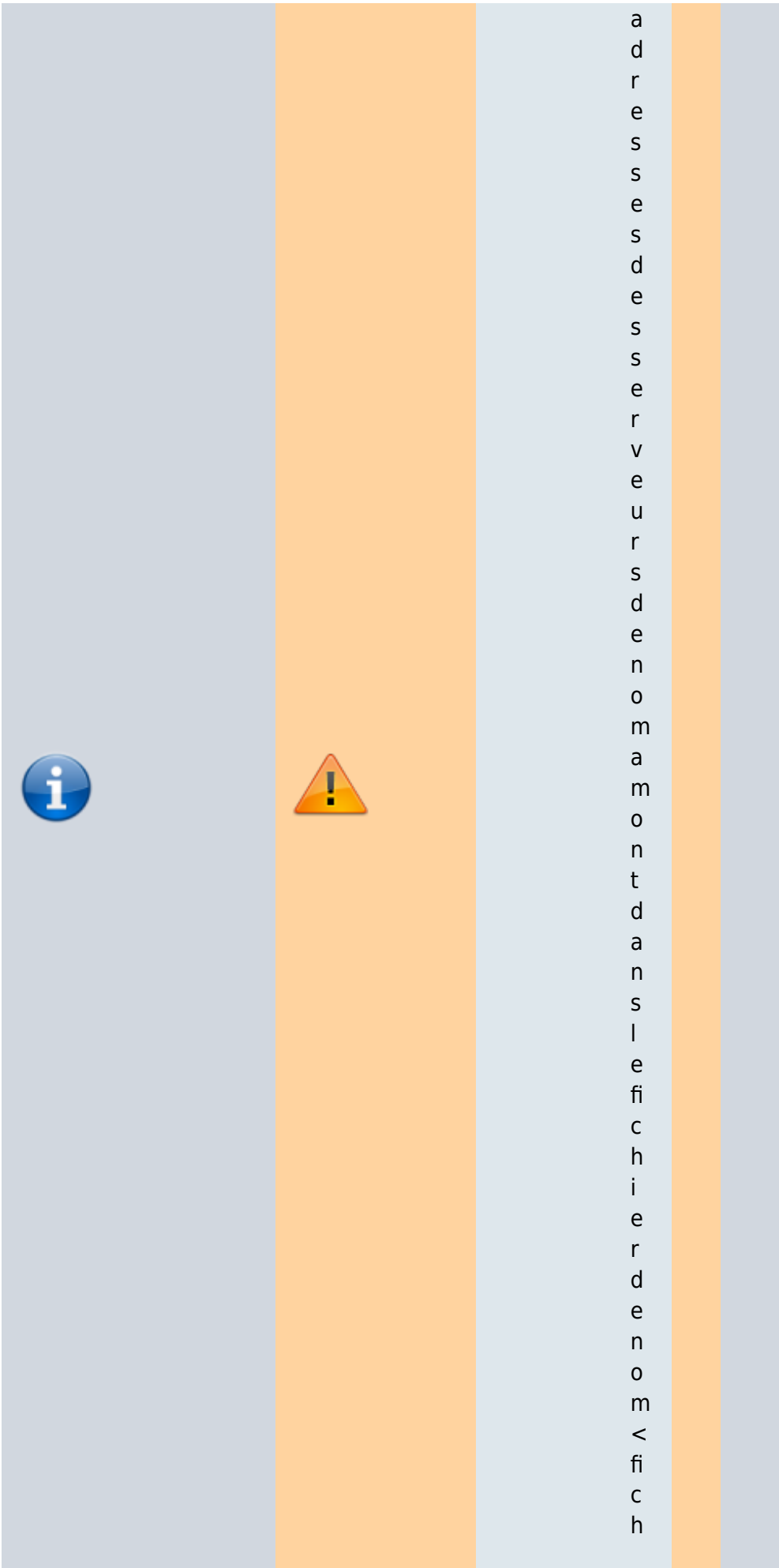




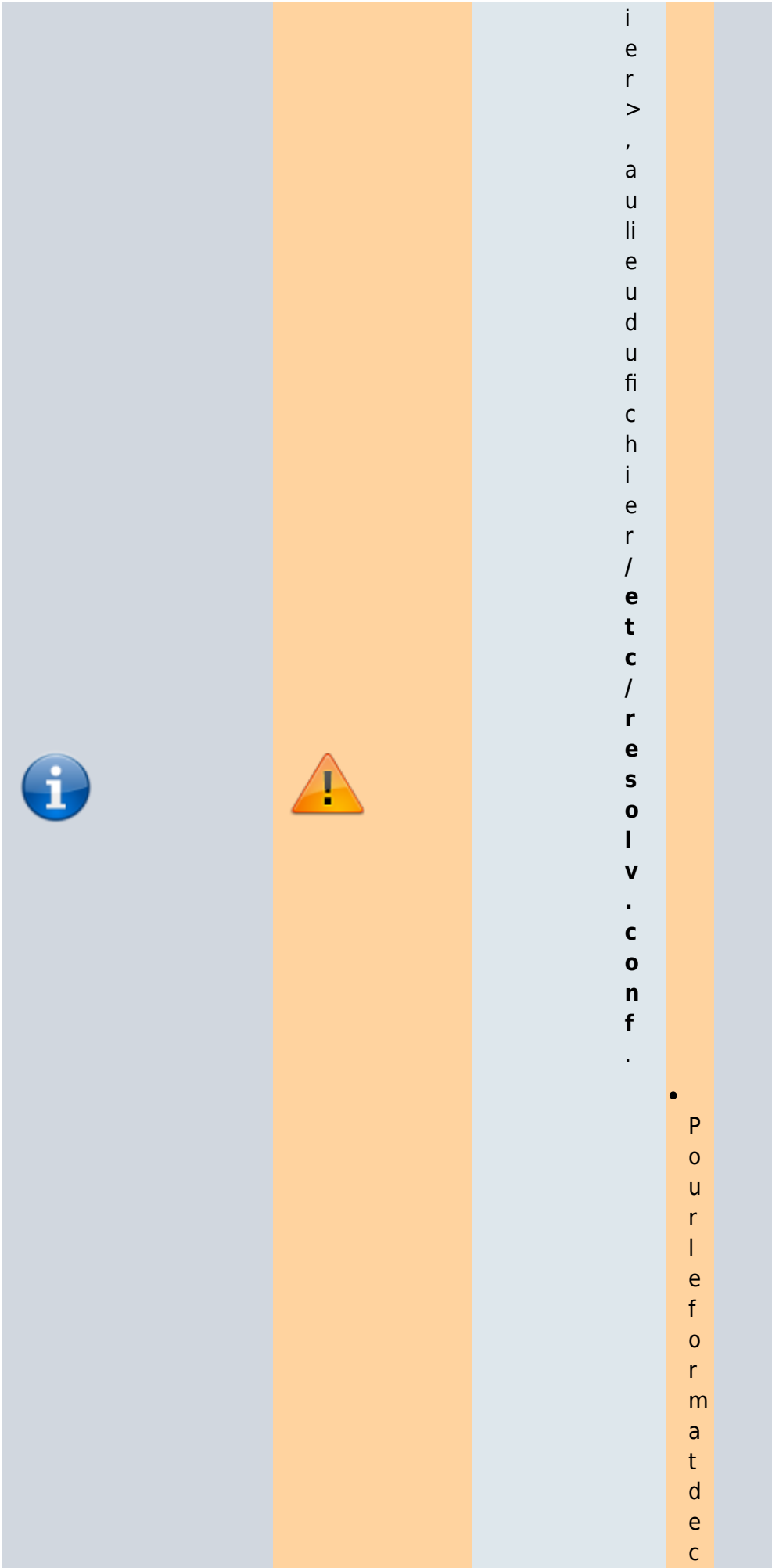
o  
m  
n  
e  
c  
o  
n  
t  
i  
e  
n  
t  
p  
a  
s  
d  
e  
p  
o  
i  
n  
t  
)  
:

- c  
o  
n  
t  
e  
n  
u  
s  
d  
a  
n  
s  
l  
e  
f  
i  
c  
h  
i  
e  
r  
/  
**e  
t  
c**  
/



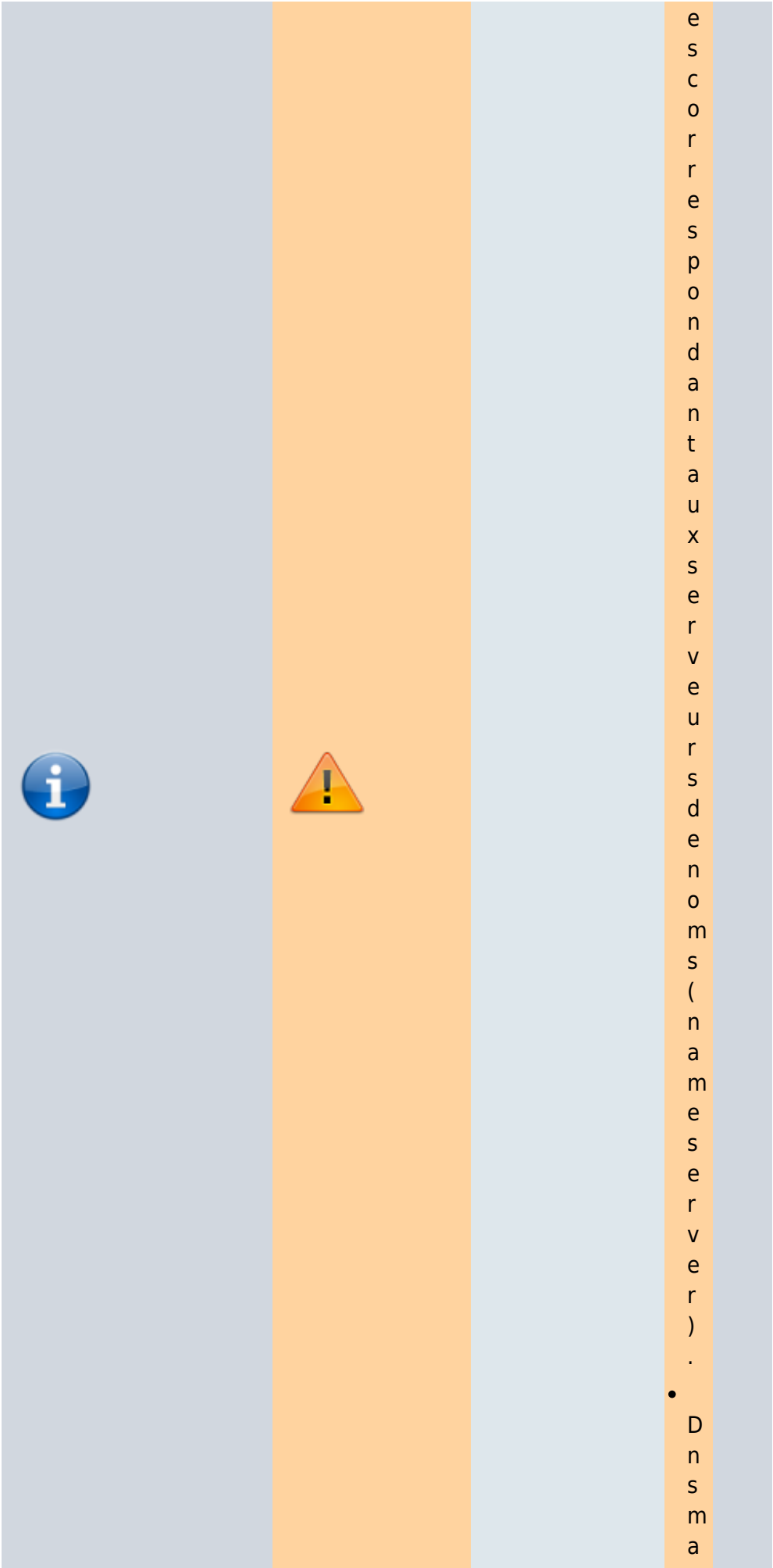


adresses des serveurs de noms  
amont dans le fichier de nom < fichier



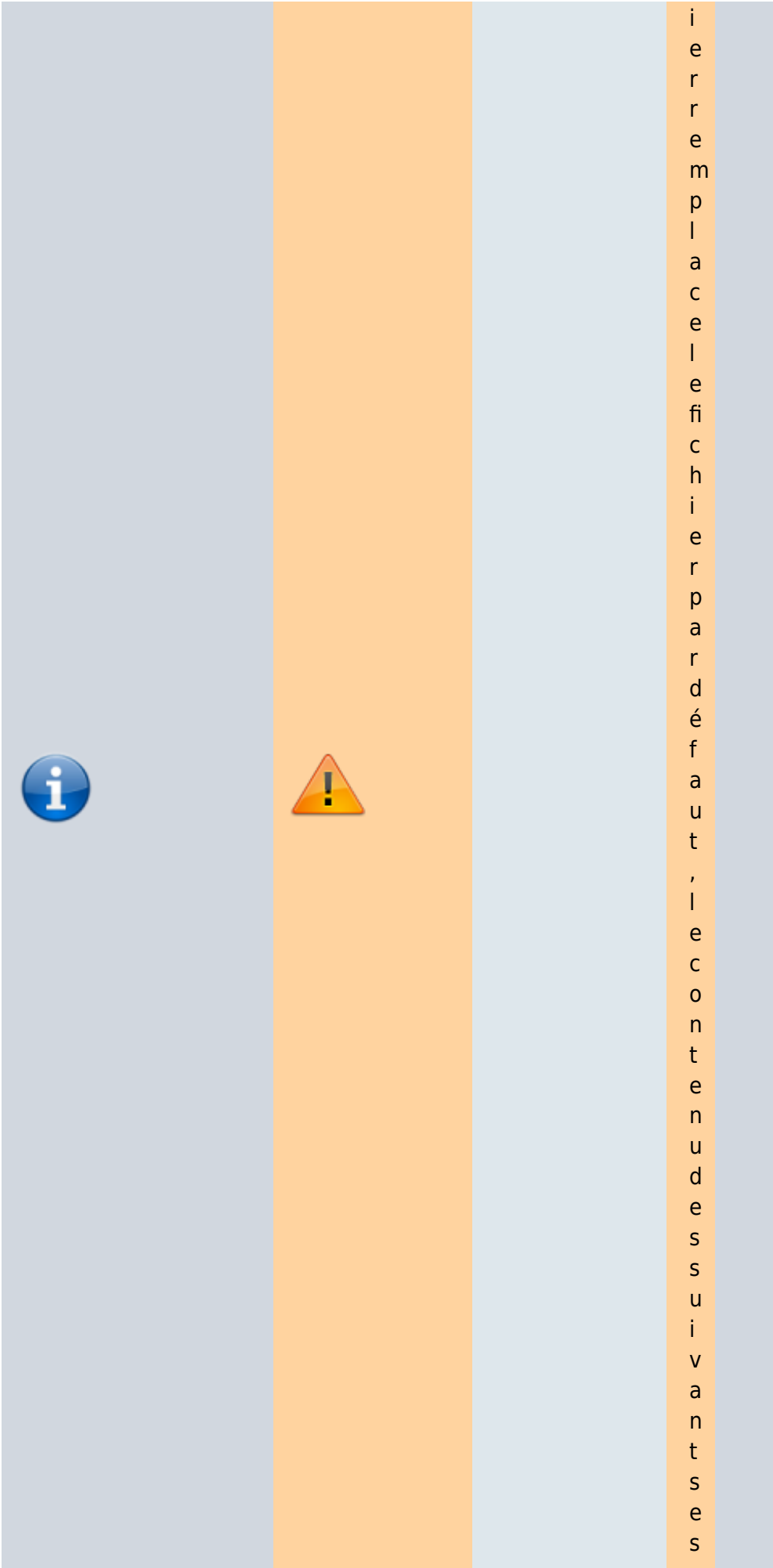


e  
f  
i  
c  
h  
i  
e  
r  
,  
v  
o  
i  
r  
d  
a  
n  
s  
l  
e  
m  
a  
n  
u  
e  
l  
p  
o  
u  
r  
r  
e  
s  
o  
l  
v  
·  
c  
o  
n  
f  
(  
5  
)  
l  
e  
s  
e  
n  
t  
r  
é



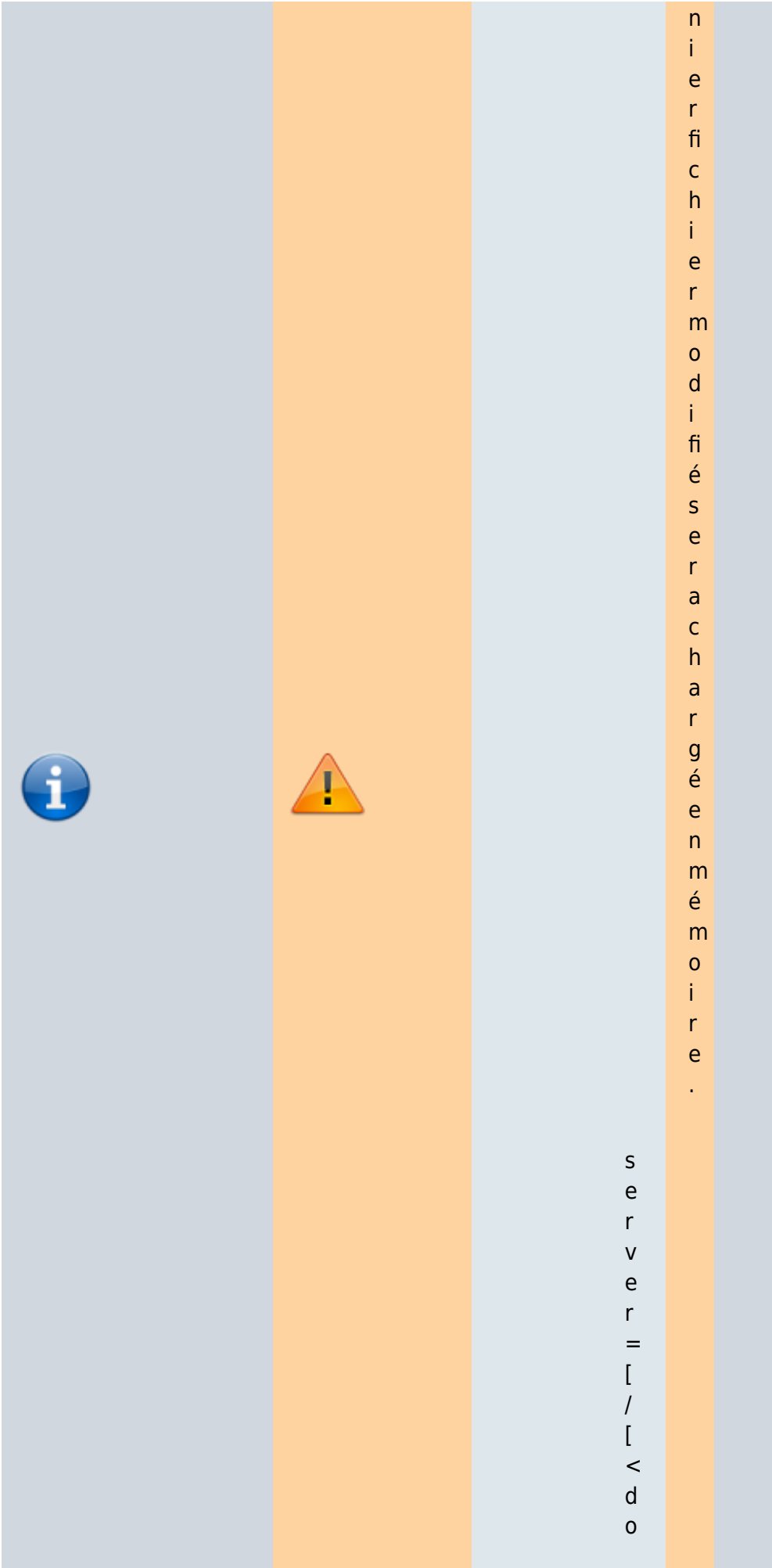


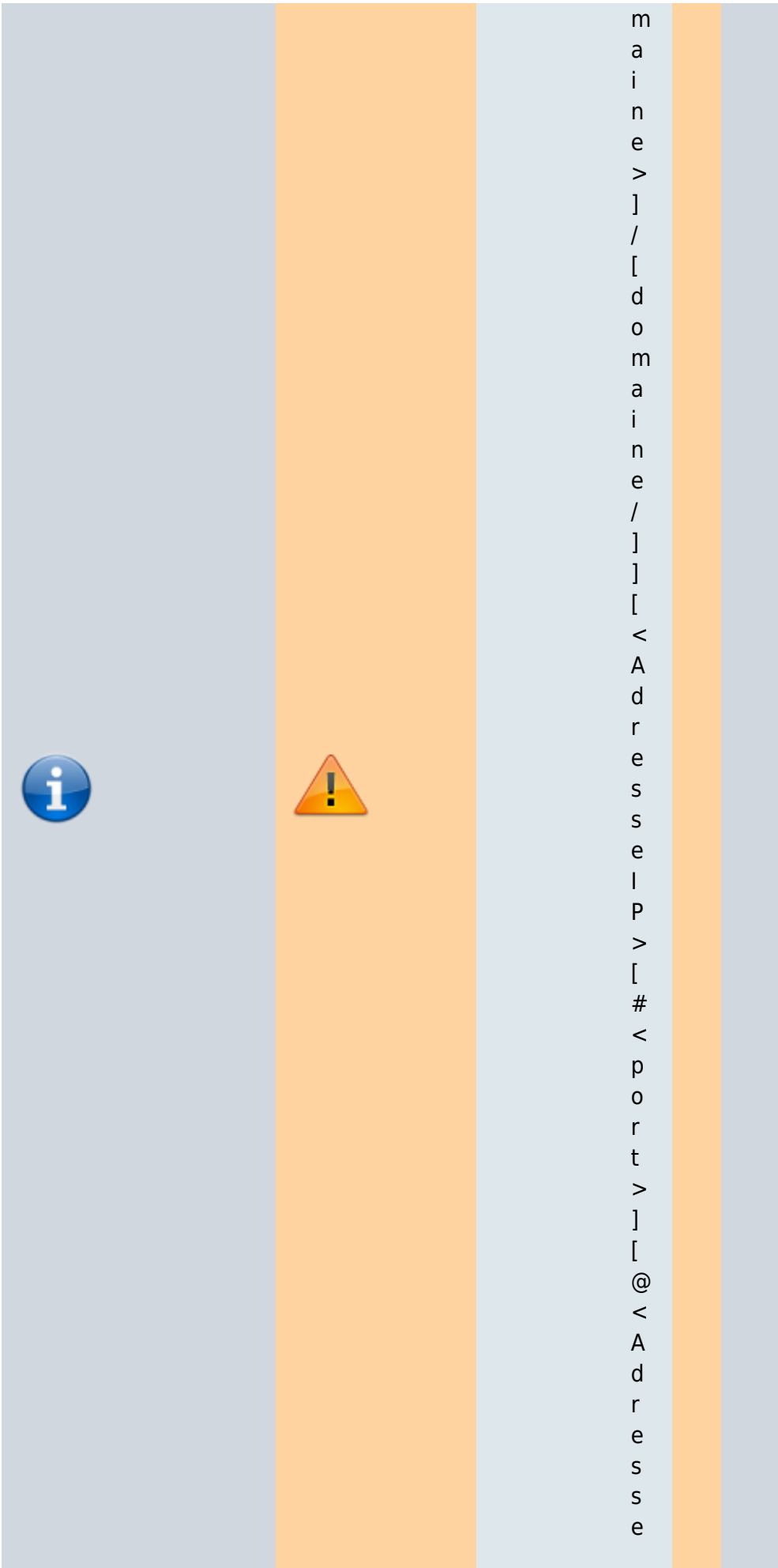
s  
q  
p  
e  
u  
t  
l  
i  
r  
e  
p  
l  
u  
s  
i  
e  
u  
r  
s  
f  
i  
c  
h  
i  
e  
r  
s  
d  
e  
t  
y  
p  
e  
r  
e  
s  
o  
l  
v  
·  
c  
o  
n  
f  
,  
l  
e  
p  
r  
e  
m



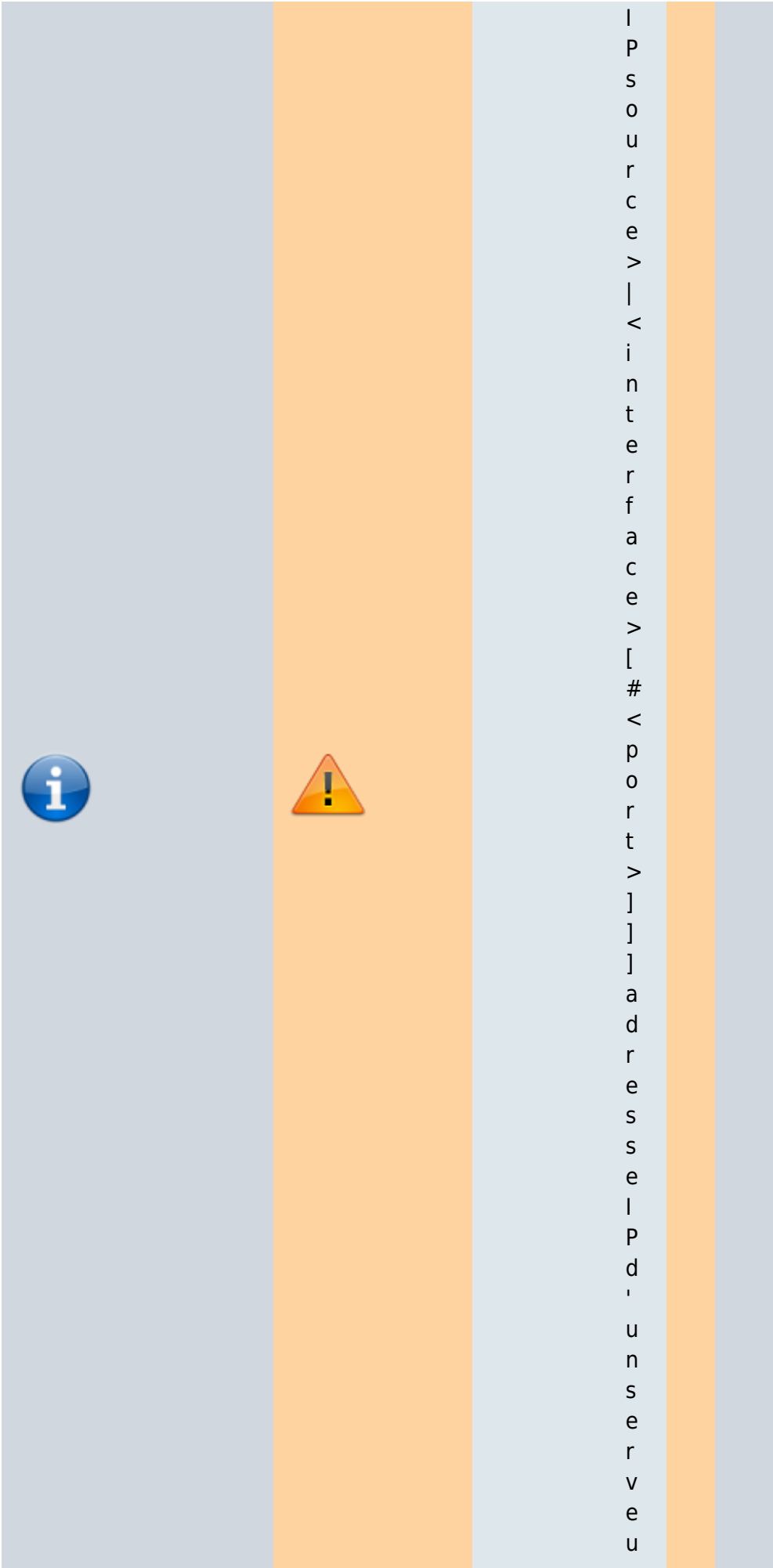


t  
r  
a  
j  
o  
u  
t  
é  
d  
a  
n  
s  
l  
a  
l  
i  
s  
t  
e  
d  
e  
s  
f  
i  
c  
h  
i  
e  
r  
s  
à  
c  
o  
n  
s  
u  
l  
t  
e  
r  
.  
•  
S  
e  
u  
l  
l  
e  
d  
e  
r







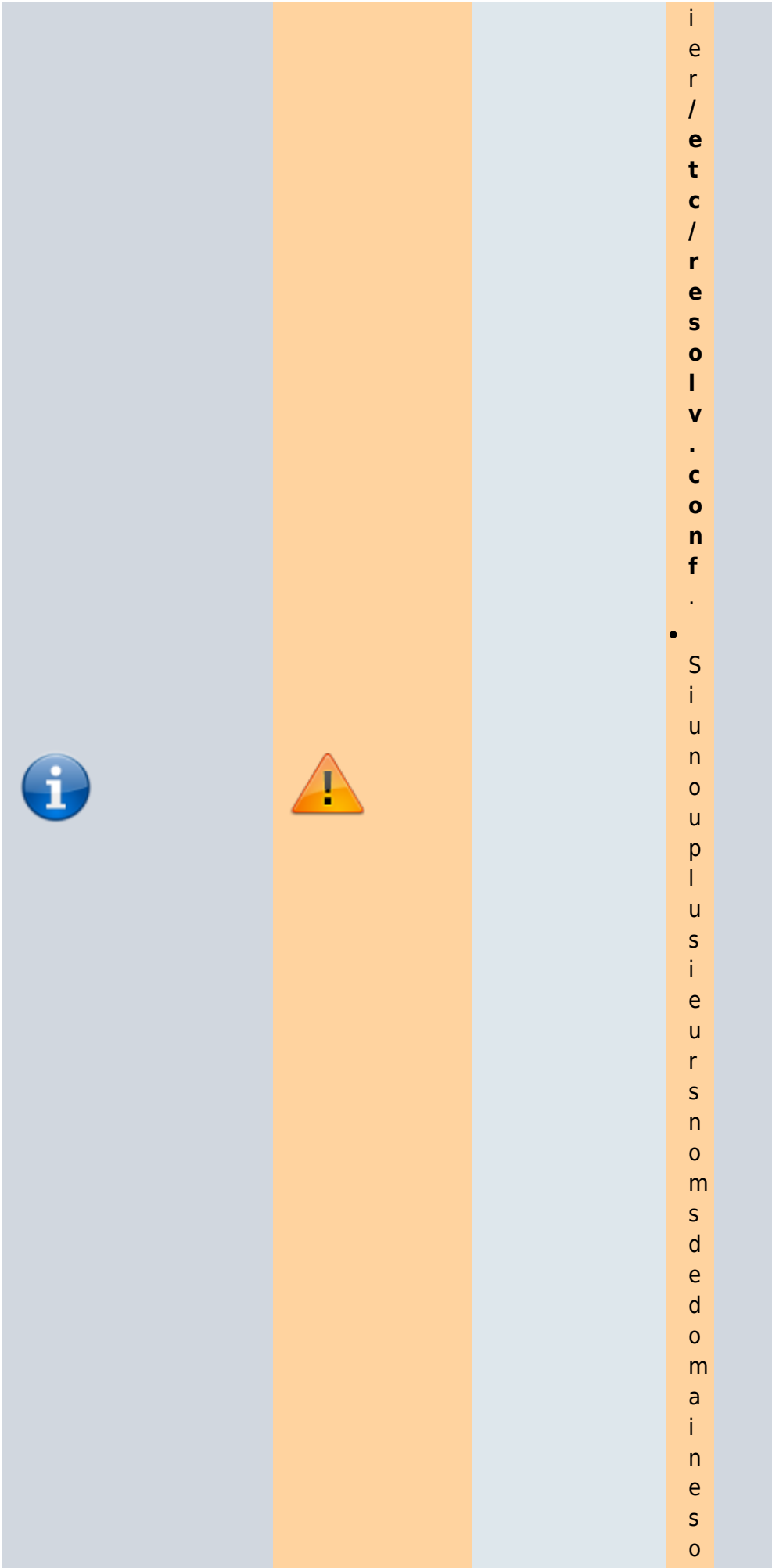
The image shows a terminal window with a light blue background. On the left side, there is a blue circular icon with a white lowercase letter 'i'. In the center, there is a yellow triangular warning icon with a black exclamation mark. On the right side, there is a vertical stream of text characters: m, a, i, n, e, >, [, /, [, d, o, m, a, i, n, e, /, ], ], <, A, d, r, e, s, s, e, |, P, >, [, #, <, p, o, r, t, >, ], [, @, <, A, d, r, e, s, s, e.



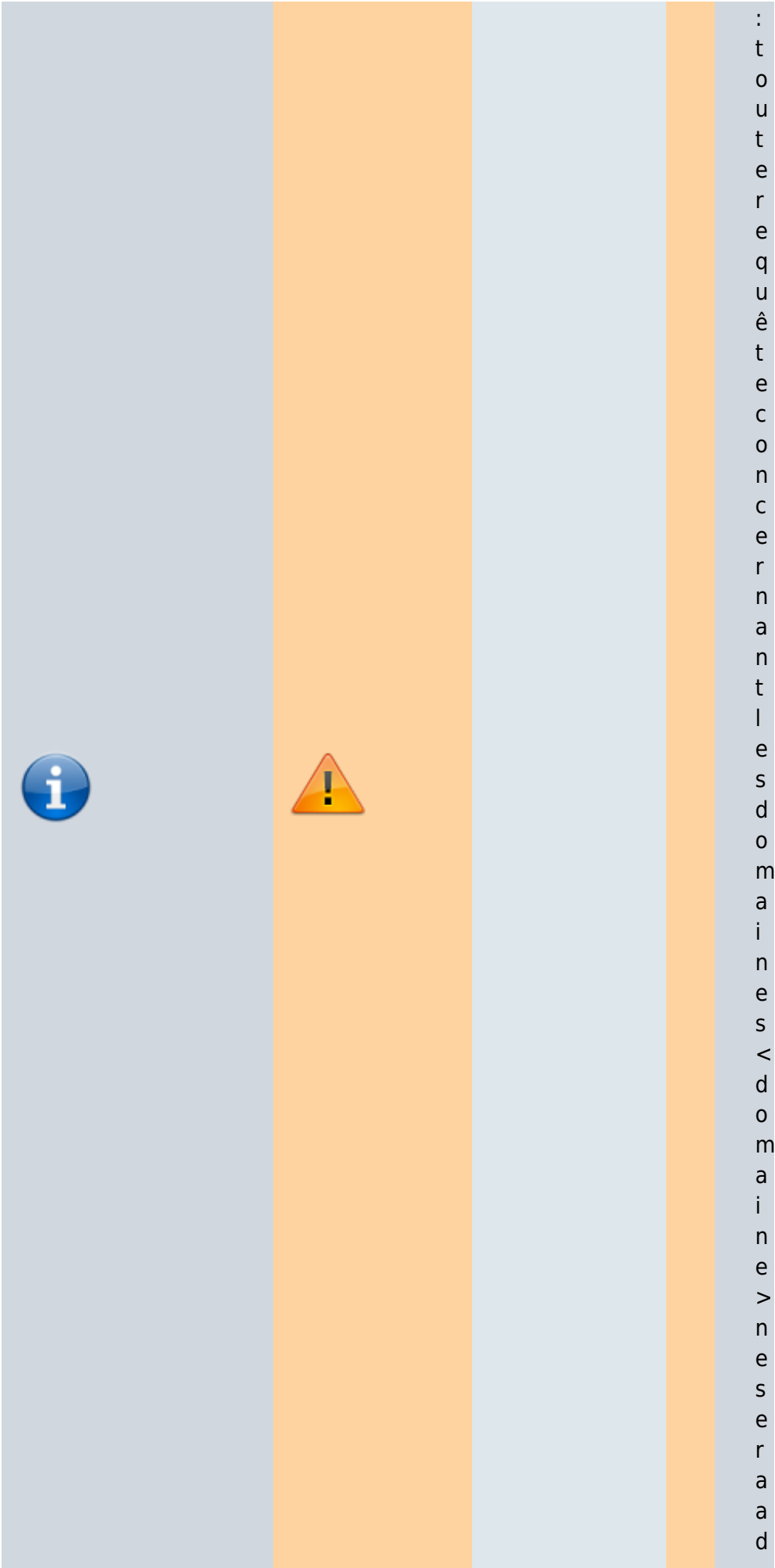
rdenomament.

- Cette option n'empêche pas la lecture du fichier

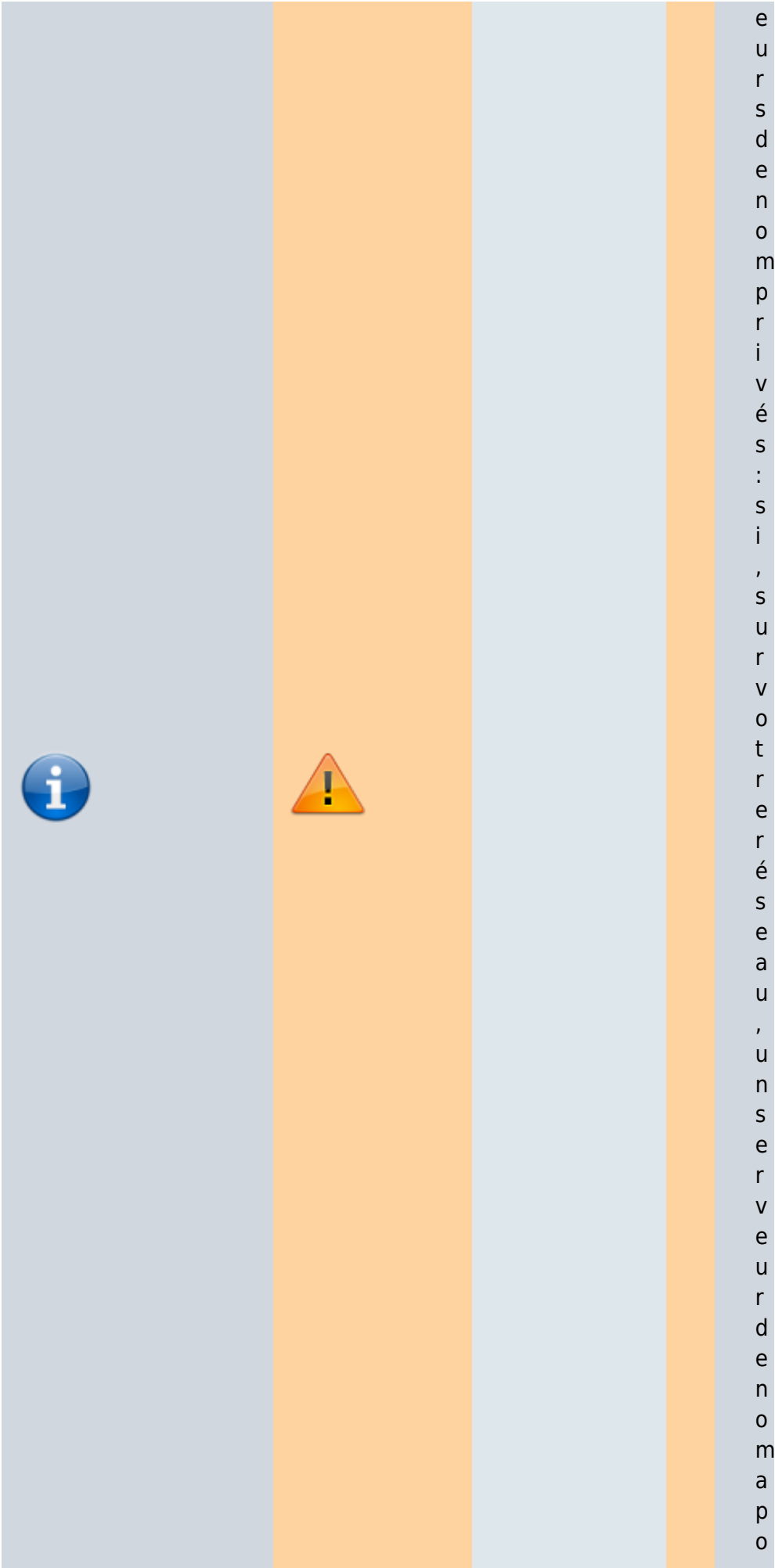




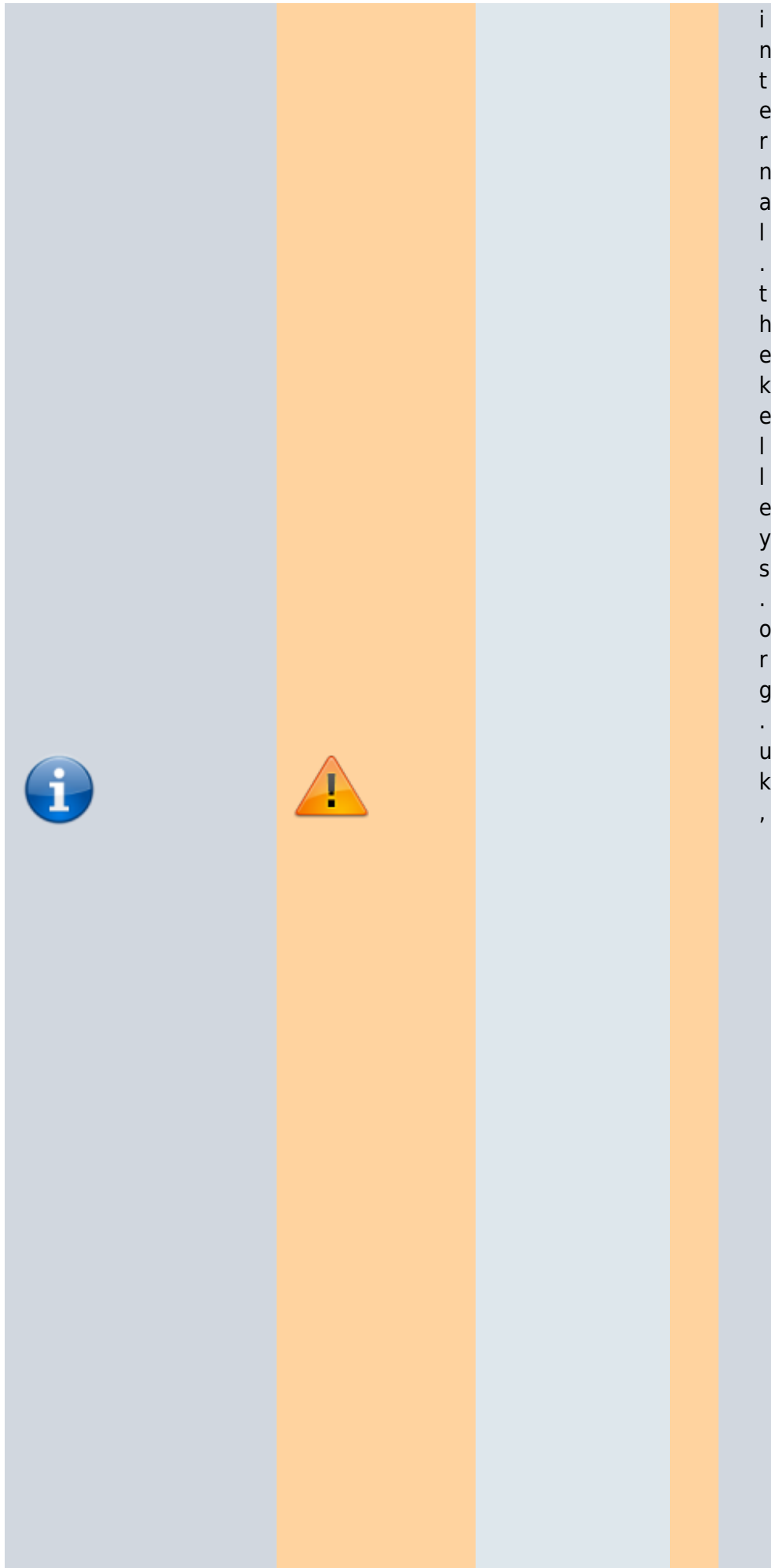
ntfournis',  
Ceserveur n'ecerner a que ce ou ces domaines

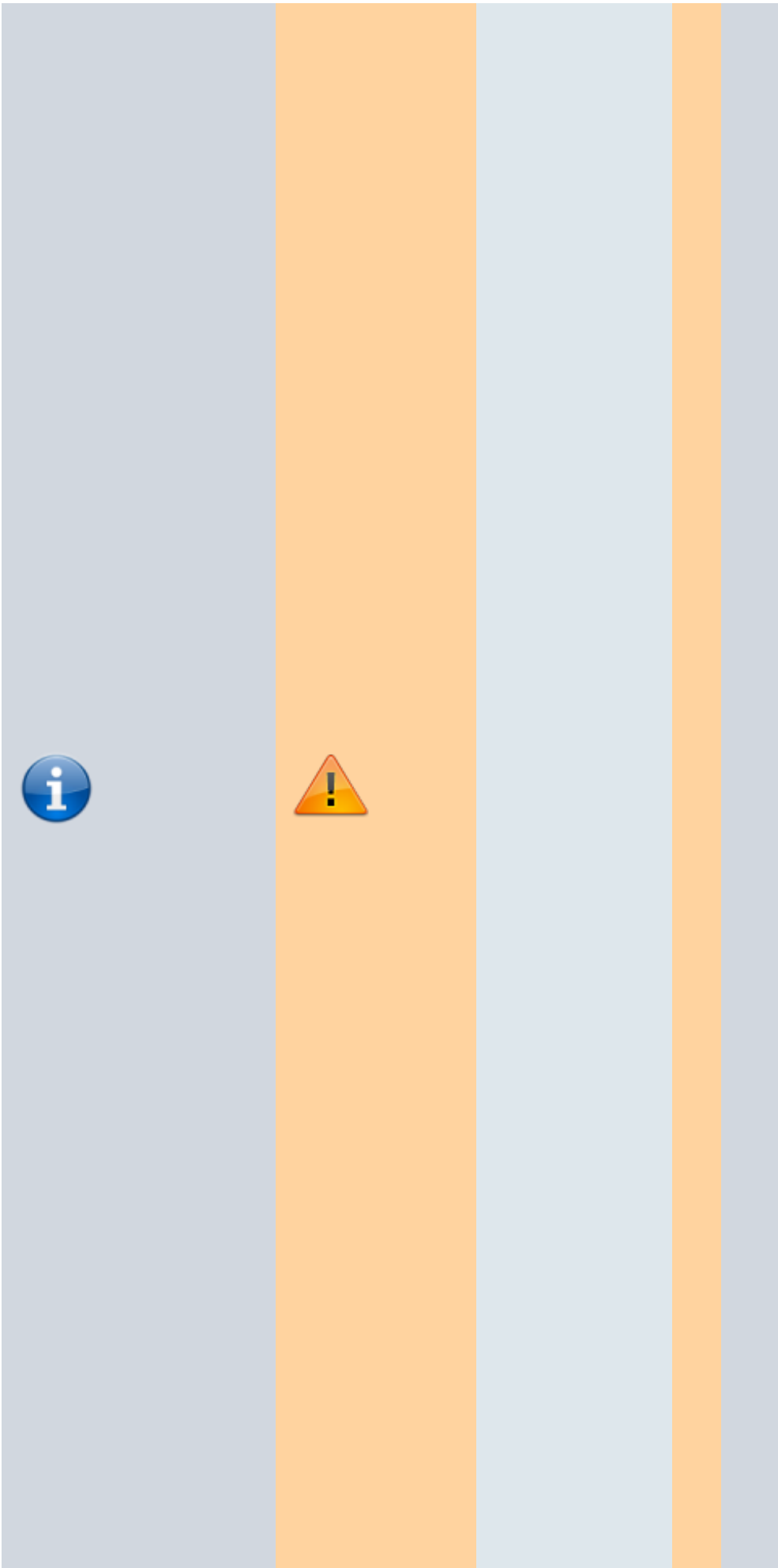


r  
e  
s  
s  
é  
q  
u  
à  
c  
e  
s  
e  
r  
v  
e  
u  
r  
C  
e  
t  
t  
e  
o  
p  
t  
i  
o  
n  
e  
s  
t  
d  
e  
s  
t  
i  
n  
é  
e  
a  
u  
x  
s  
e  
r  
v

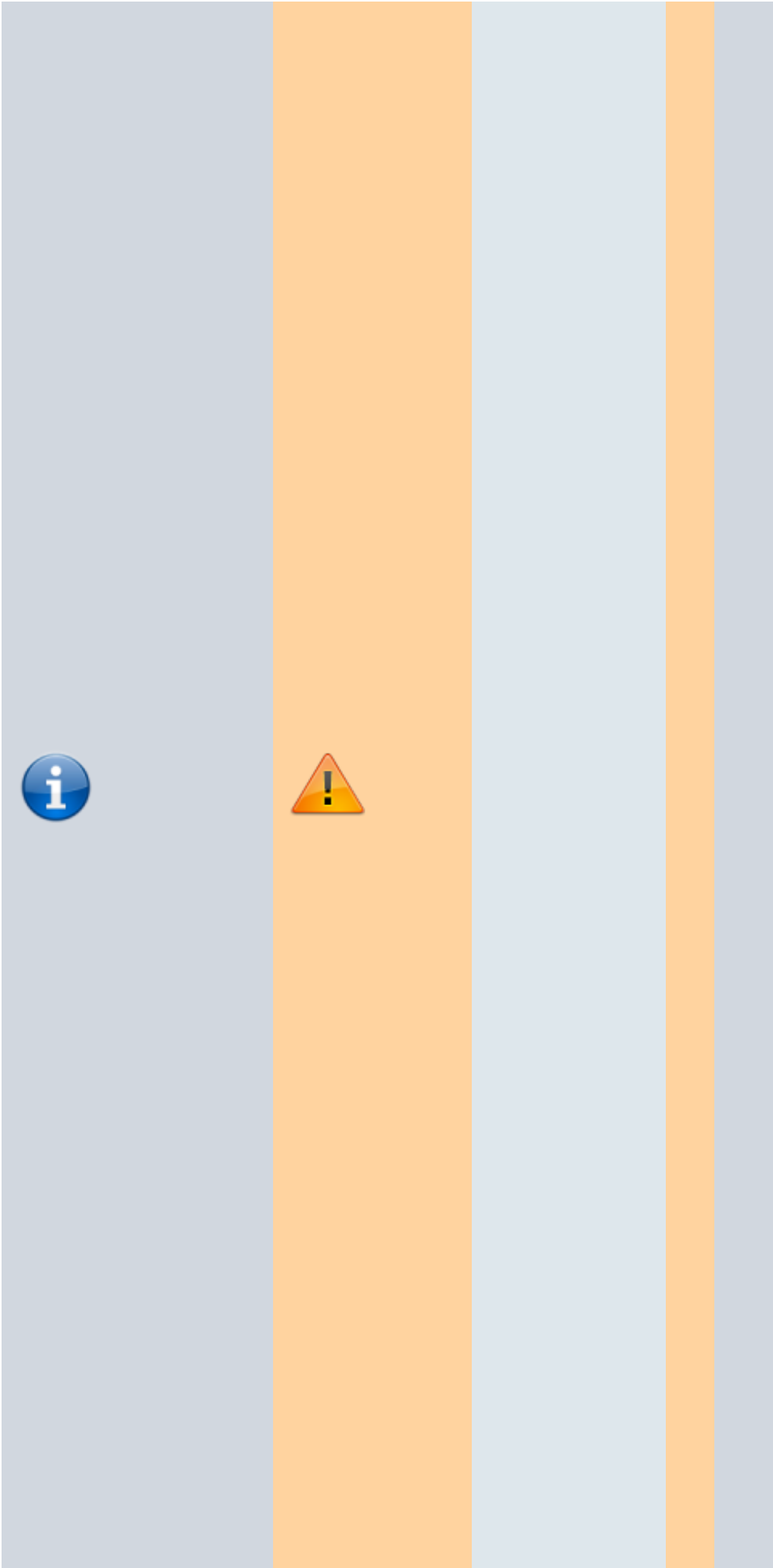


uradresseselp192.168.1.1internetressoutlesnomsdelaforme xxx.

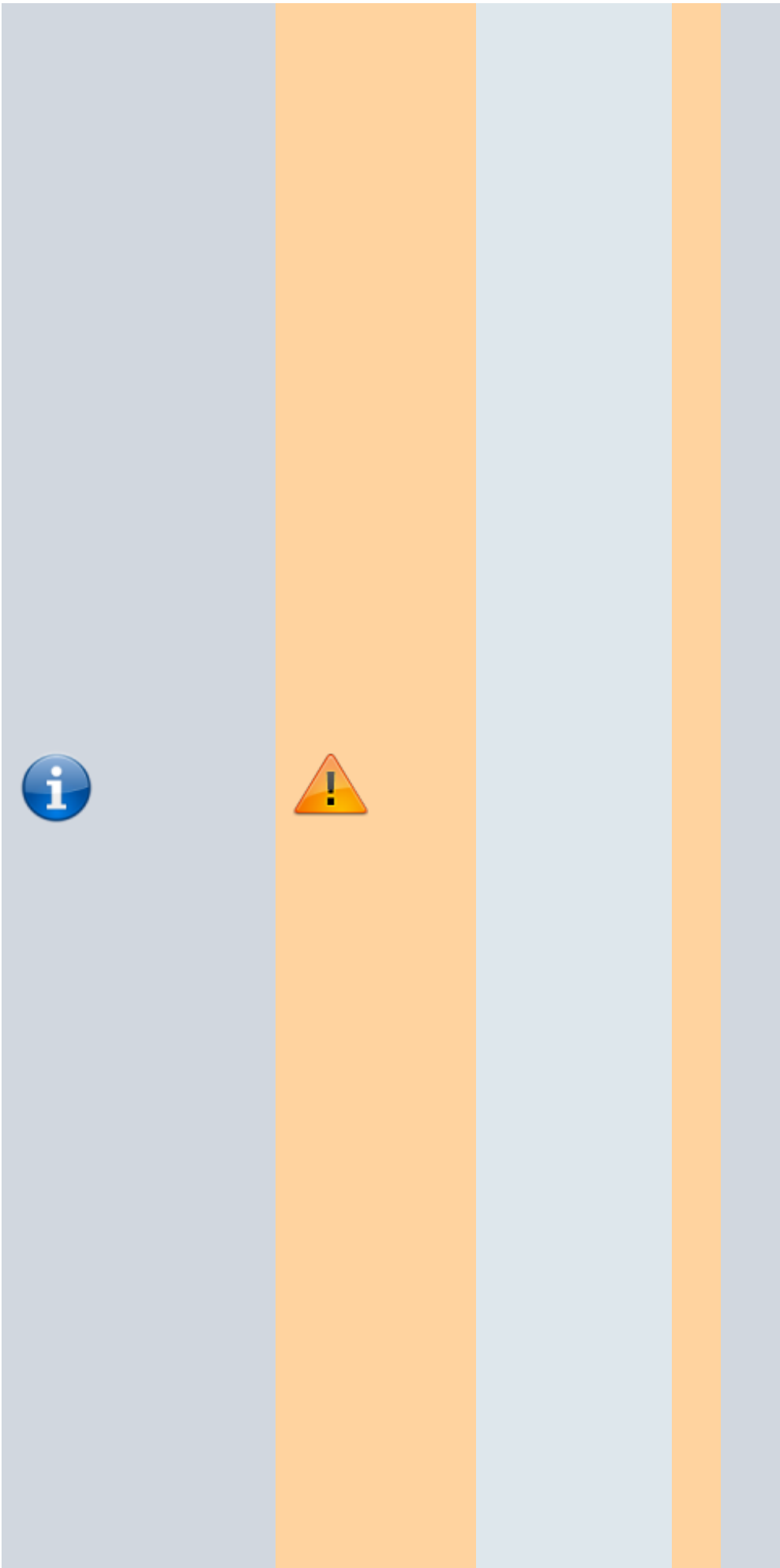




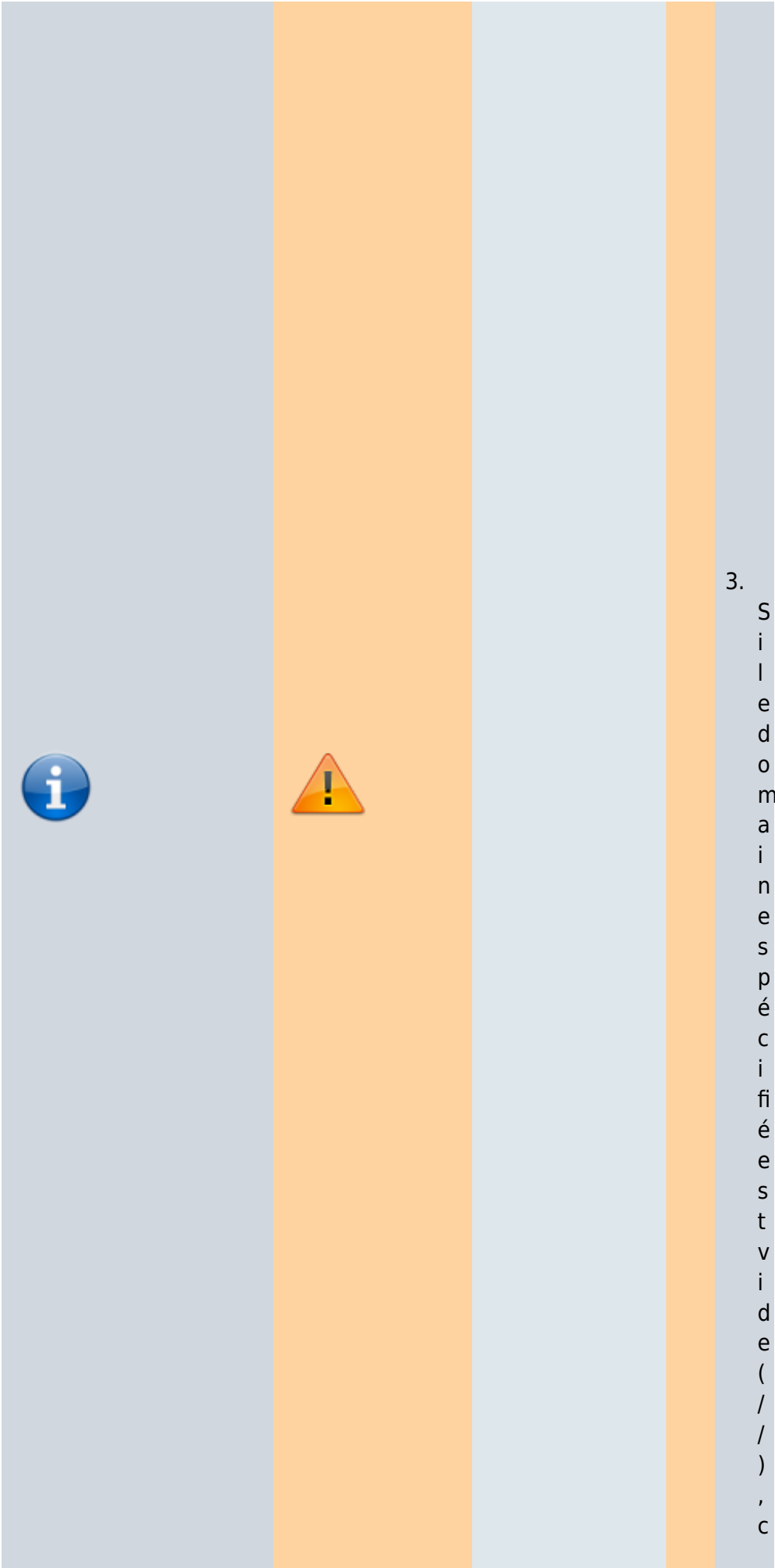
e  
y  
s  
.  
o  
r  
g  
.  
u  
k  
/  
1  
9  
2  
.  
1  
6  
8  
.  
1  
.  
1  
e  
n  
v  
e  
r  
r  
a  
l  
e  
s  
r  
e  
q  
u  
ê  
t  
e  
s  
p  
o  
u  
r  
l  
e  
s  
m  
a  
c



h  
i  
n  
e  
s  
i  
n  
t  
e  
r  
n  
e  
s  
v  
e  
r  
s  
c  
e  
s  
e  
r  
v  
e  
u  
r  
d  
e  
n  
o  
m  
,  
▪ t  
o  
u  
t  
e  
s  
l  
e  
s  
a  
u  
t  
r  
e  
s  
r  
e  
q

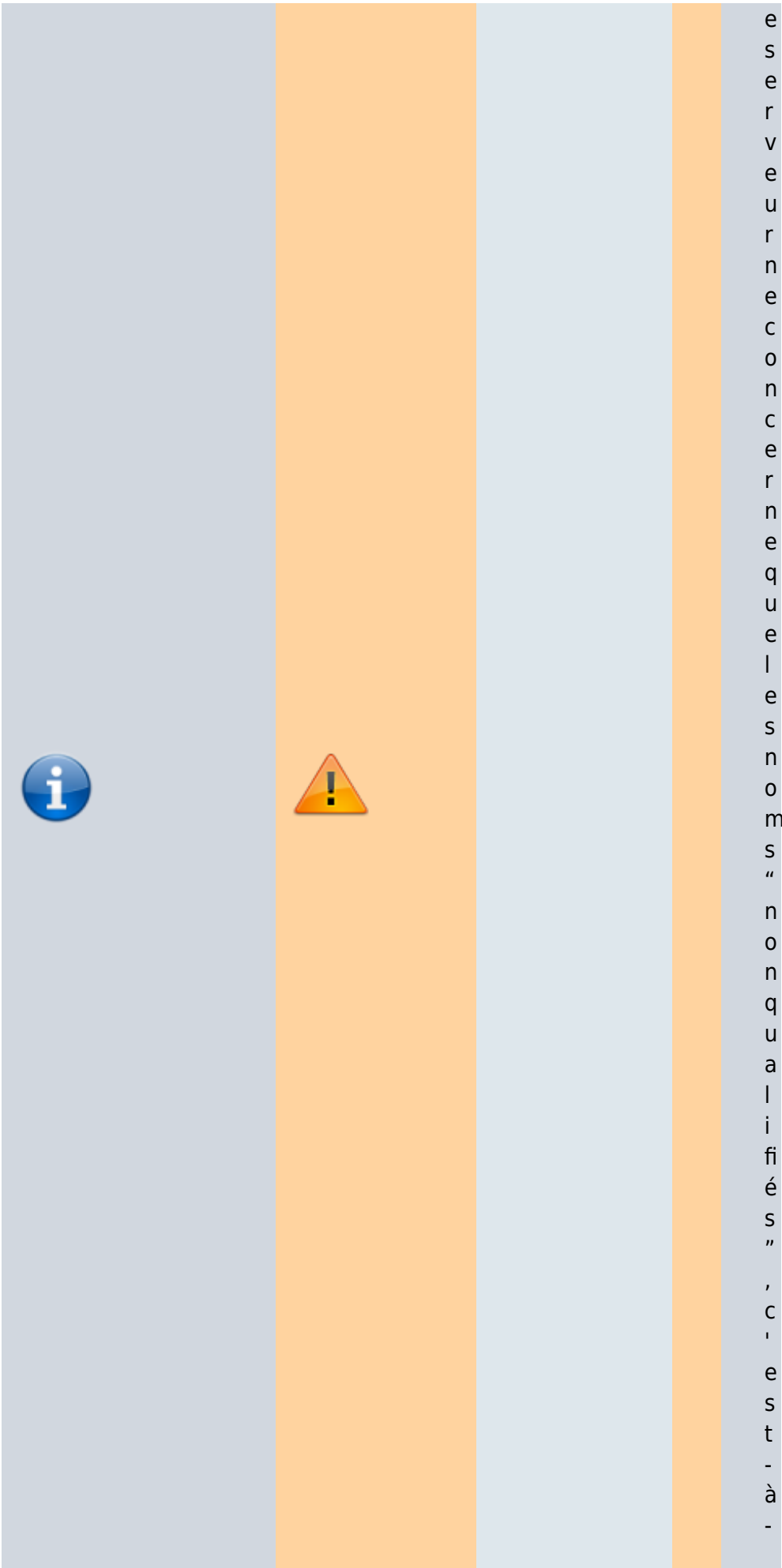


u  
ê  
t  
e  
s  
s  
e  
r  
o  
n  
t  
a  
d  
r  
e  
s  
s  
é  
e  
s  
a  
u  
x  
s  
e  
r  
v  
e  
u  
r  
s  
i  
n  
d  
i  
q  
u  
é  
s  
d  
a  
n  
s  
l  
e  
f  
i  
c  
h  
i  
e

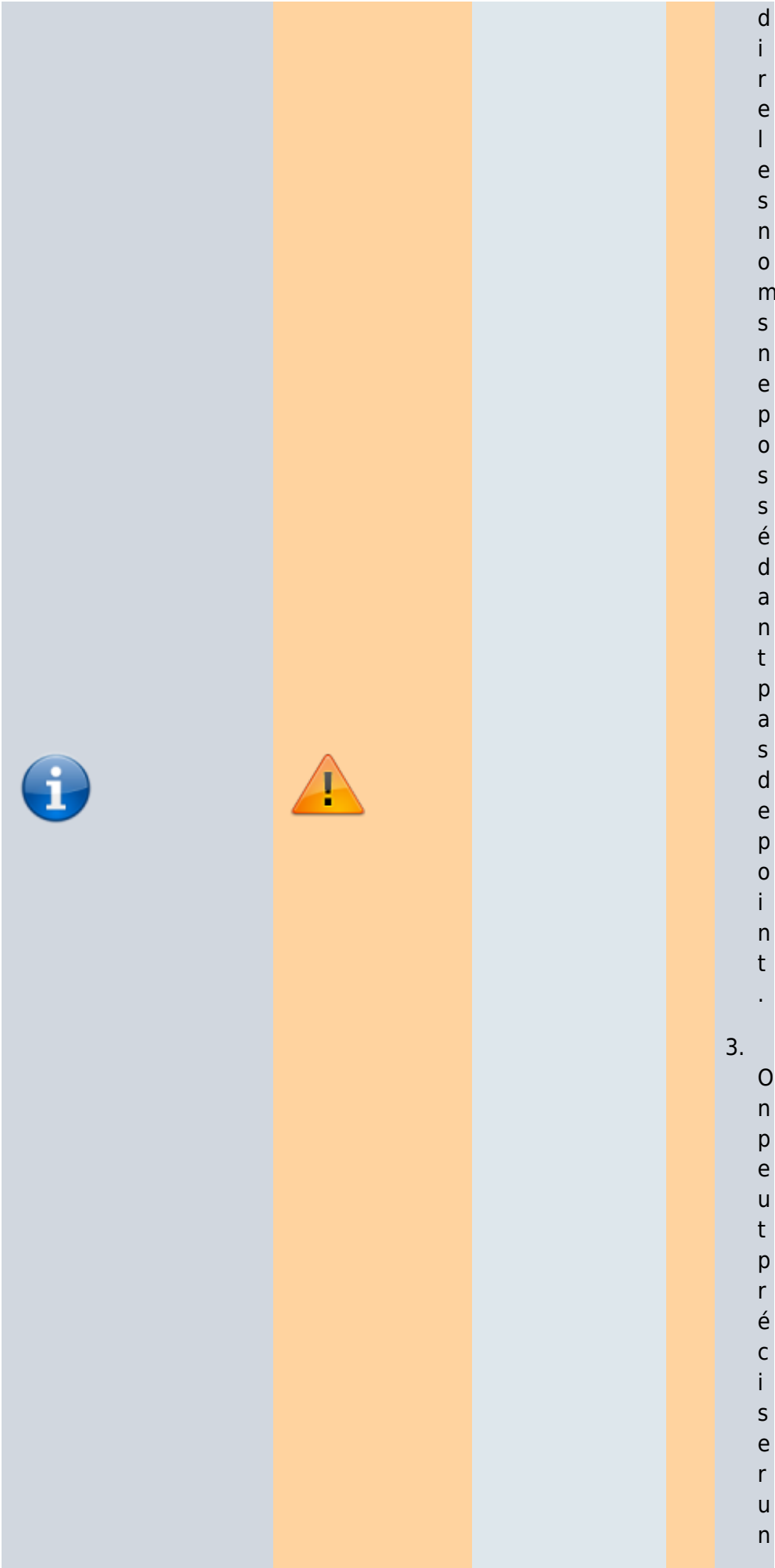


r / e t c / r e s o l v . c o n f .

3. Si le domaine spécifié est vide (/ /), c



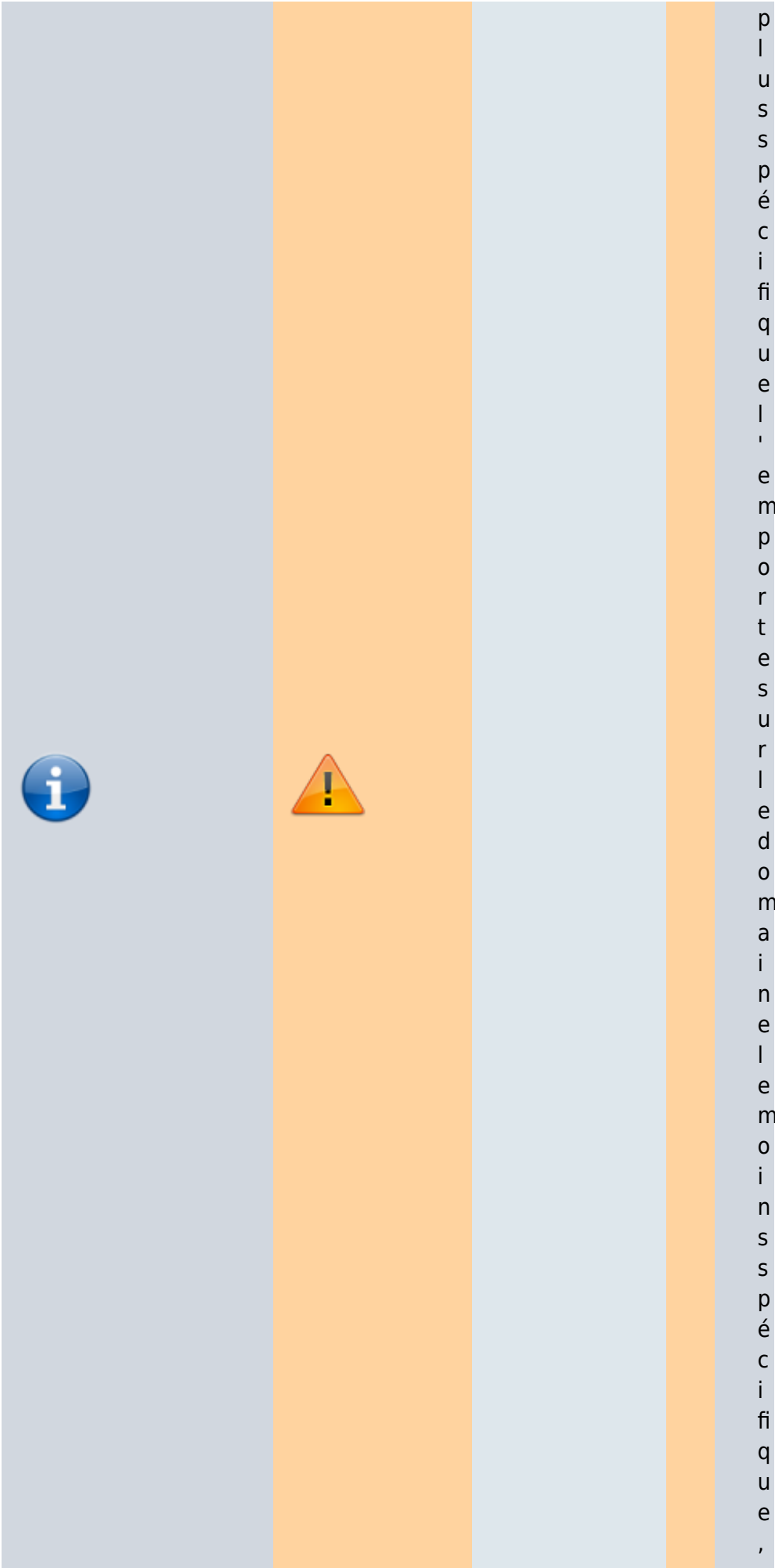
e  
s  
e  
r  
v  
e  
u  
r  
n  
e  
c  
o  
n  
c  
e  
r  
n  
e  
q  
u  
e  
l  
e  
s  
n  
o  
m  
s  
"  
n  
o  
n  
q  
u  
a  
l  
i  
f  
i  
é  
s  
"  
,  
c  
'  
e  
s  
t  
-  
à  
-



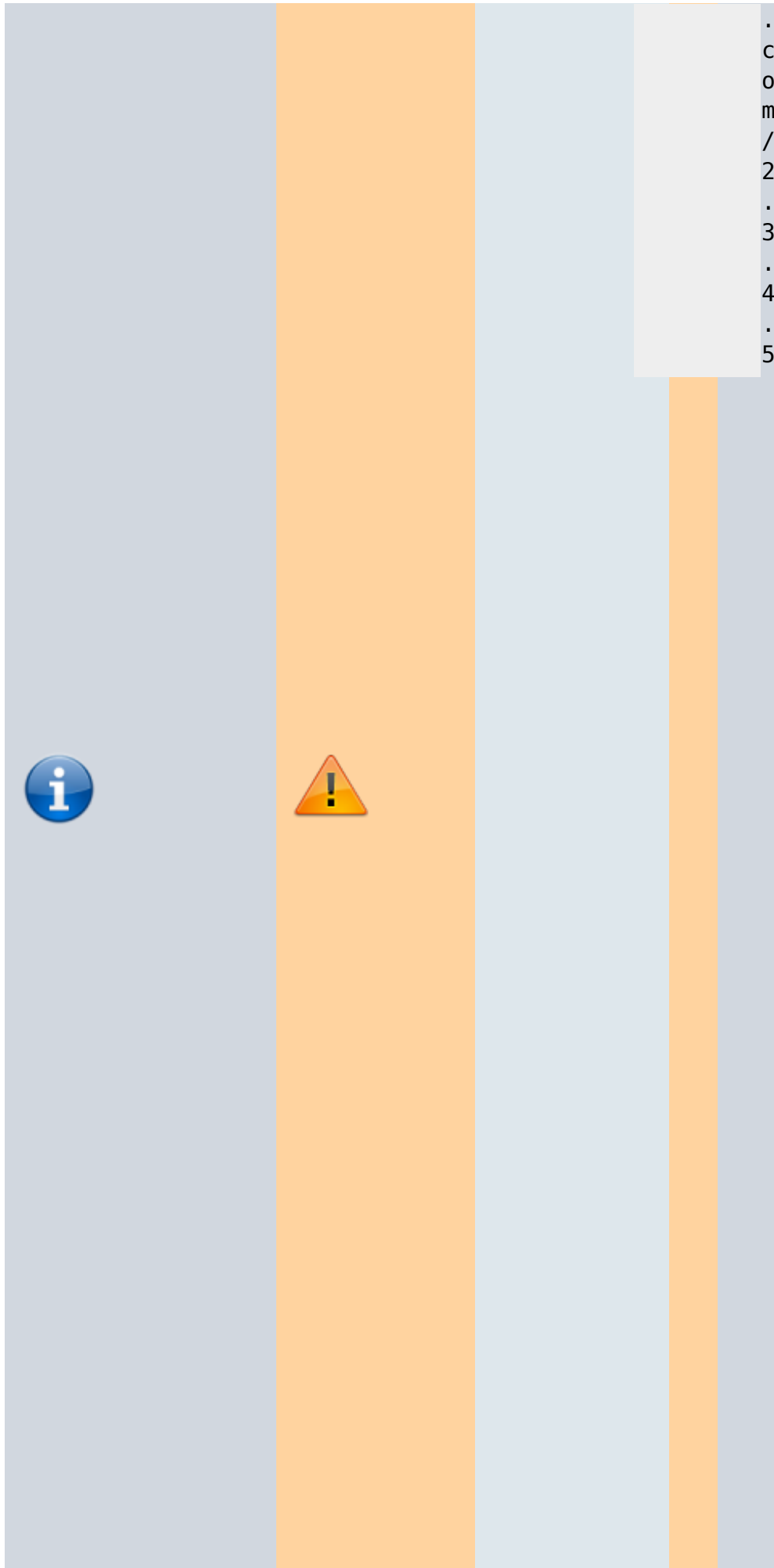
port non standard à la suite de sa désinstallation

a  
r  
a  
c  
t  
è  
r  
e  
#  
.  
4. O n p e u t m e t t r e p l u s d ' u n e o p t i o n s e r v e r e n r é p é t



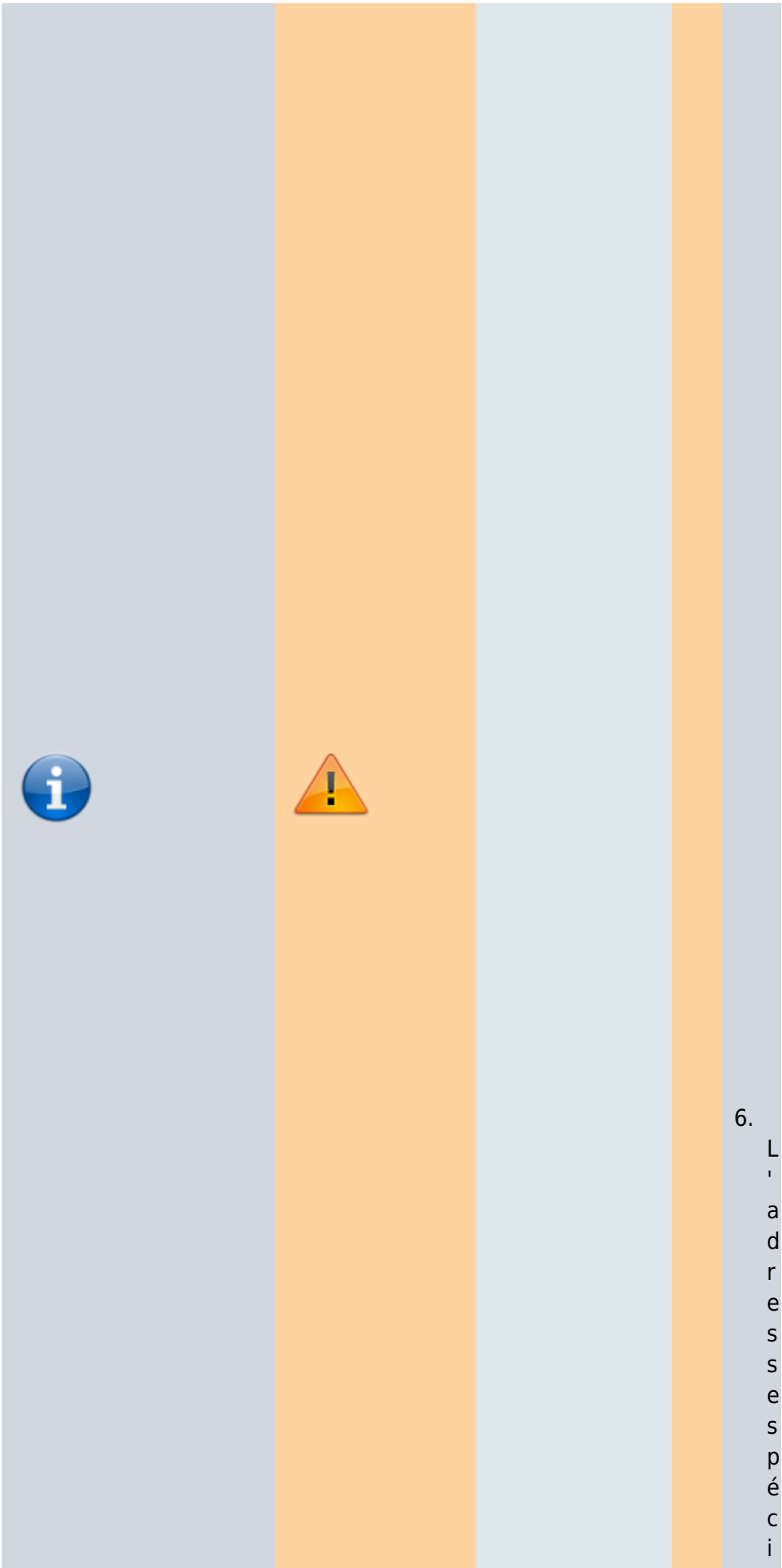


a  
i  
n  
s  
i  
:  
s  
e  
r  
v  
e  
r  
=  
/  
g  
o  
o  
g  
l  
e  
.  
c  
o  
m  
/  
1  
.  
2  
.  
3  
.  
4  
s  
e  
r  
v  
e  
r  
=  
/  
w  
w  
w  
.  
g  
o  
o  
g  
l  
e



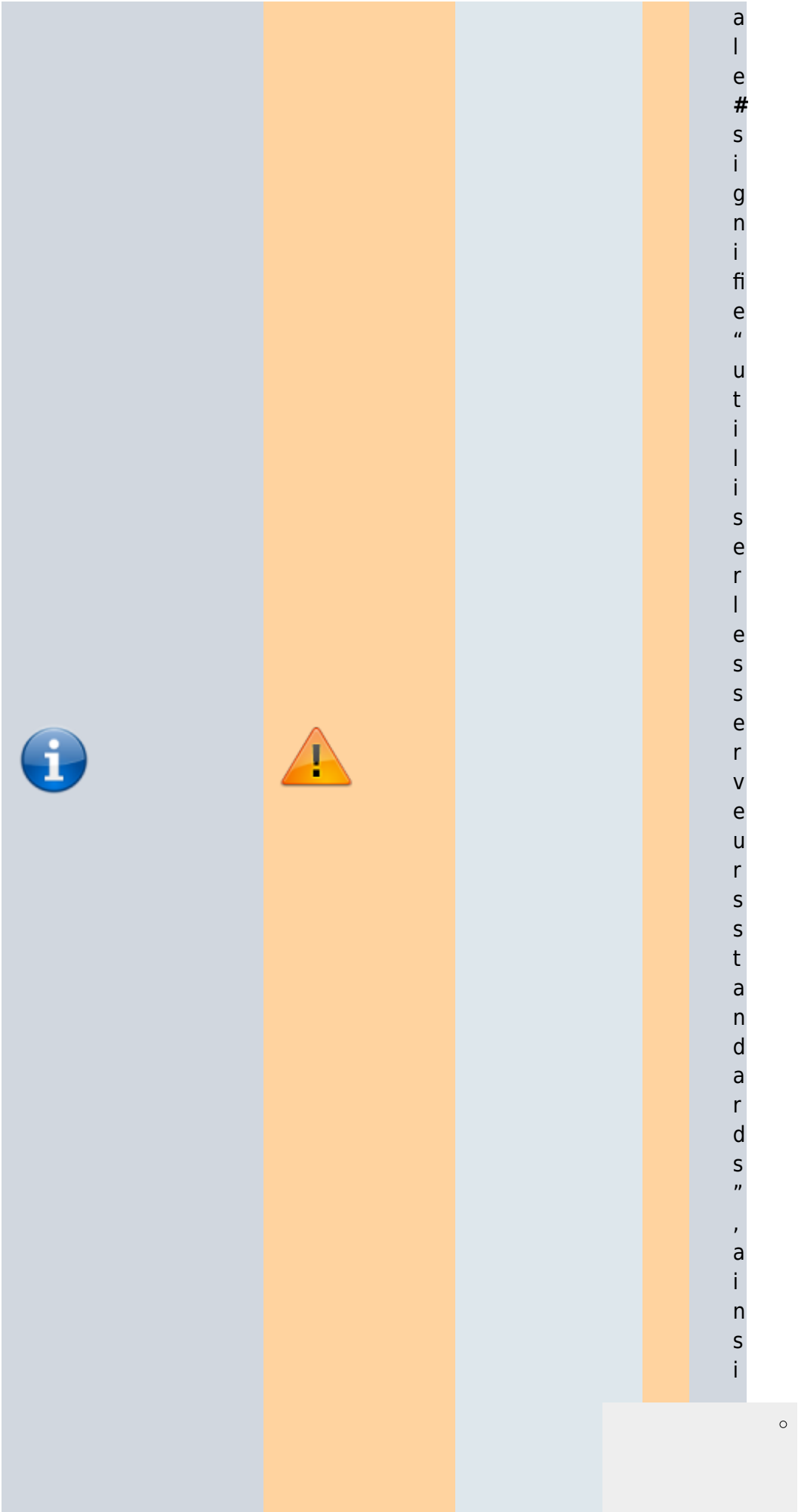
.  
c  
o  
m  
/  
2  
.  
3  
.  
4  
.  
5

o  
e  
n  
v  
e  
r  
r  
a  
l  
e  
s  
r  
e  
q  
u  
ê  
t  
e  
s  
p  
o  
u  
r  
\*  
.  
g  
o  
o  
g  
l  
e  
.  
c  
o  
m  
→  
1  
.  
1  
.  
1

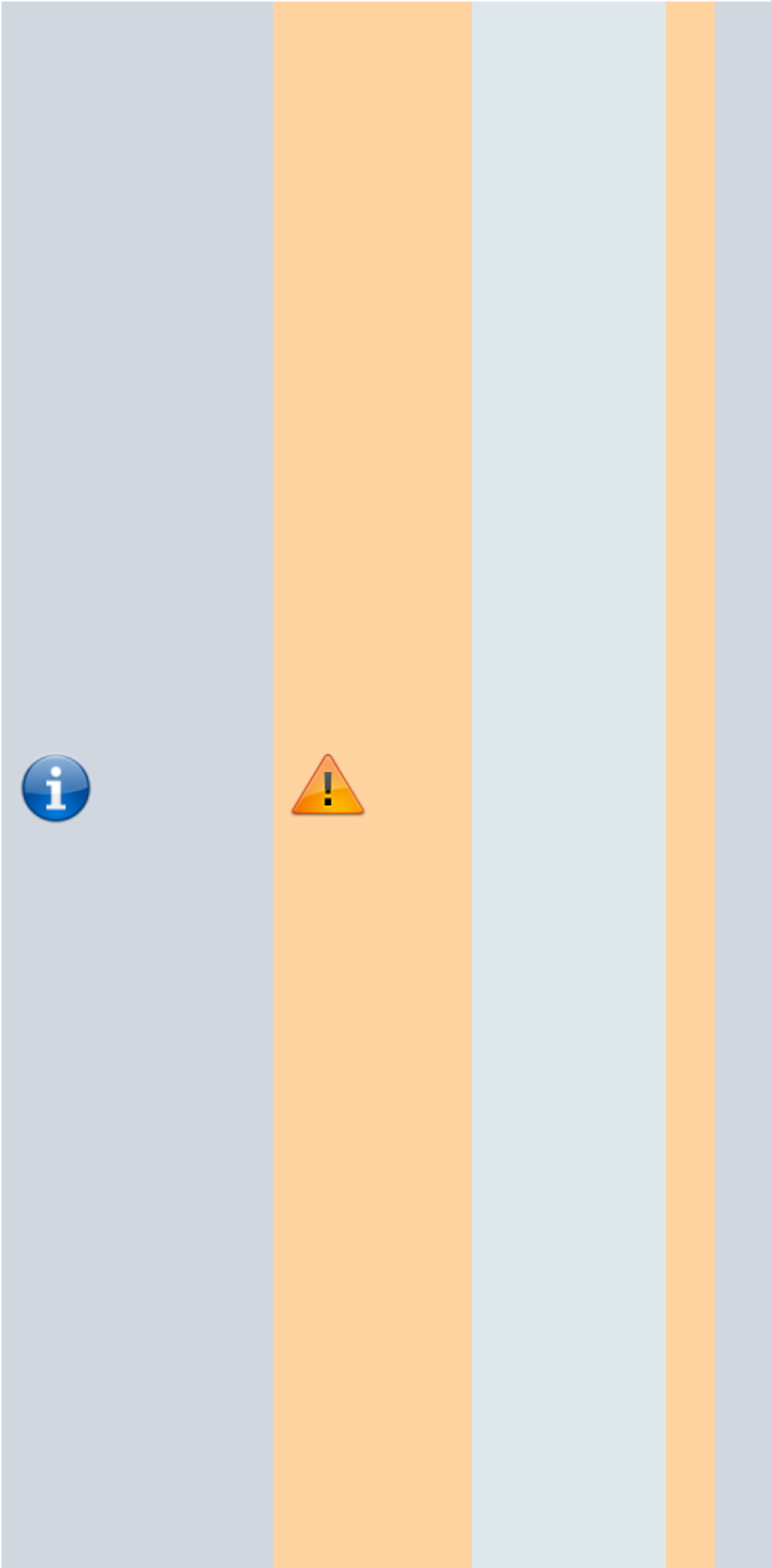


2  
.  
3  
.  
4  
.  
.  
.  
m  
a  
i  
s  
\*  
w  
w  
w  
.  
g  
o  
o  
g  
l  
e  
.  
c  
o  
m  
→  
2  
.  
3  
.  
4  
.  
5  
.  
.

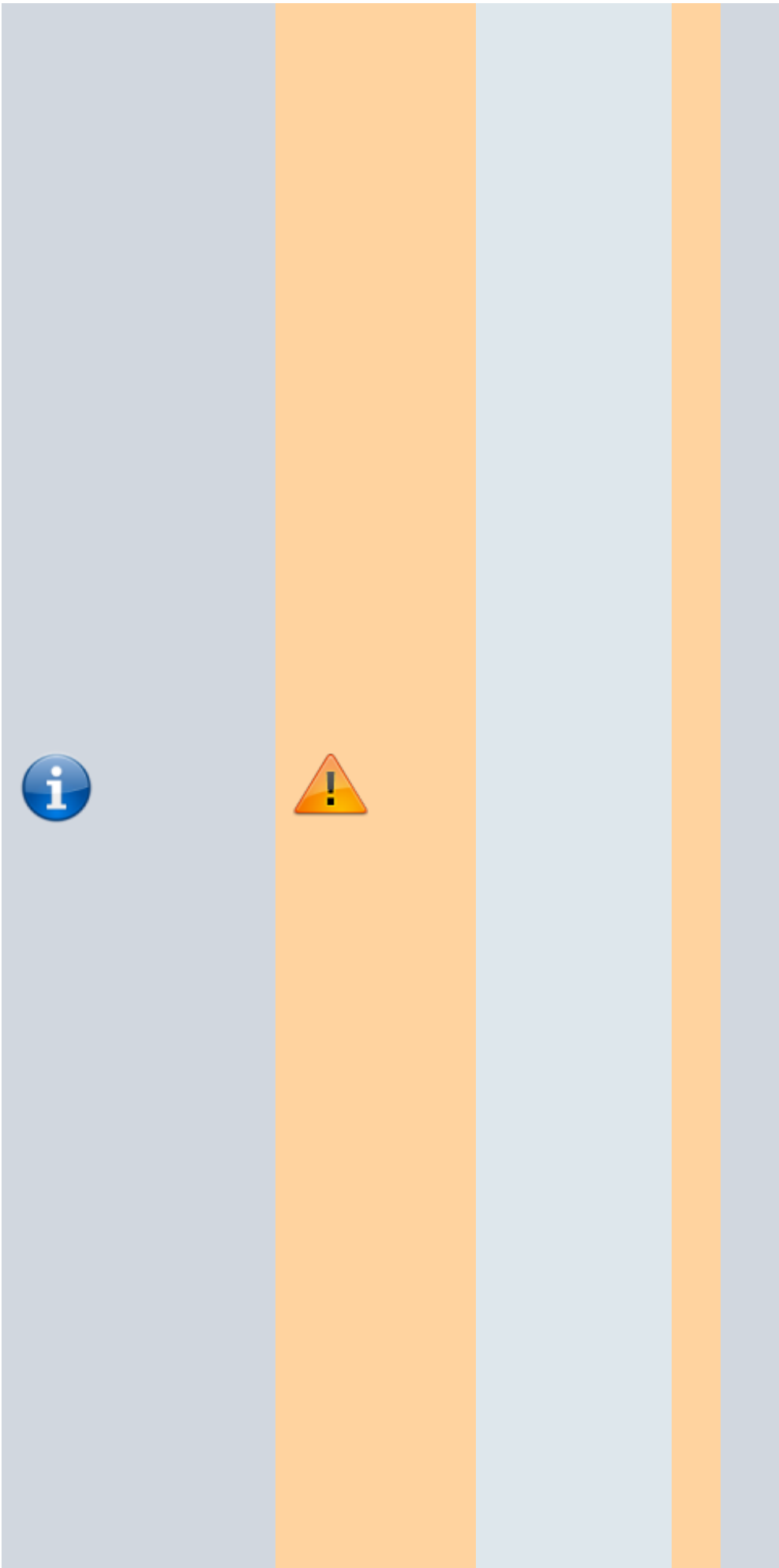
6.  
L  
a  
d  
r  
e  
s  
s  
e  
s  
p  
é  
c  
i



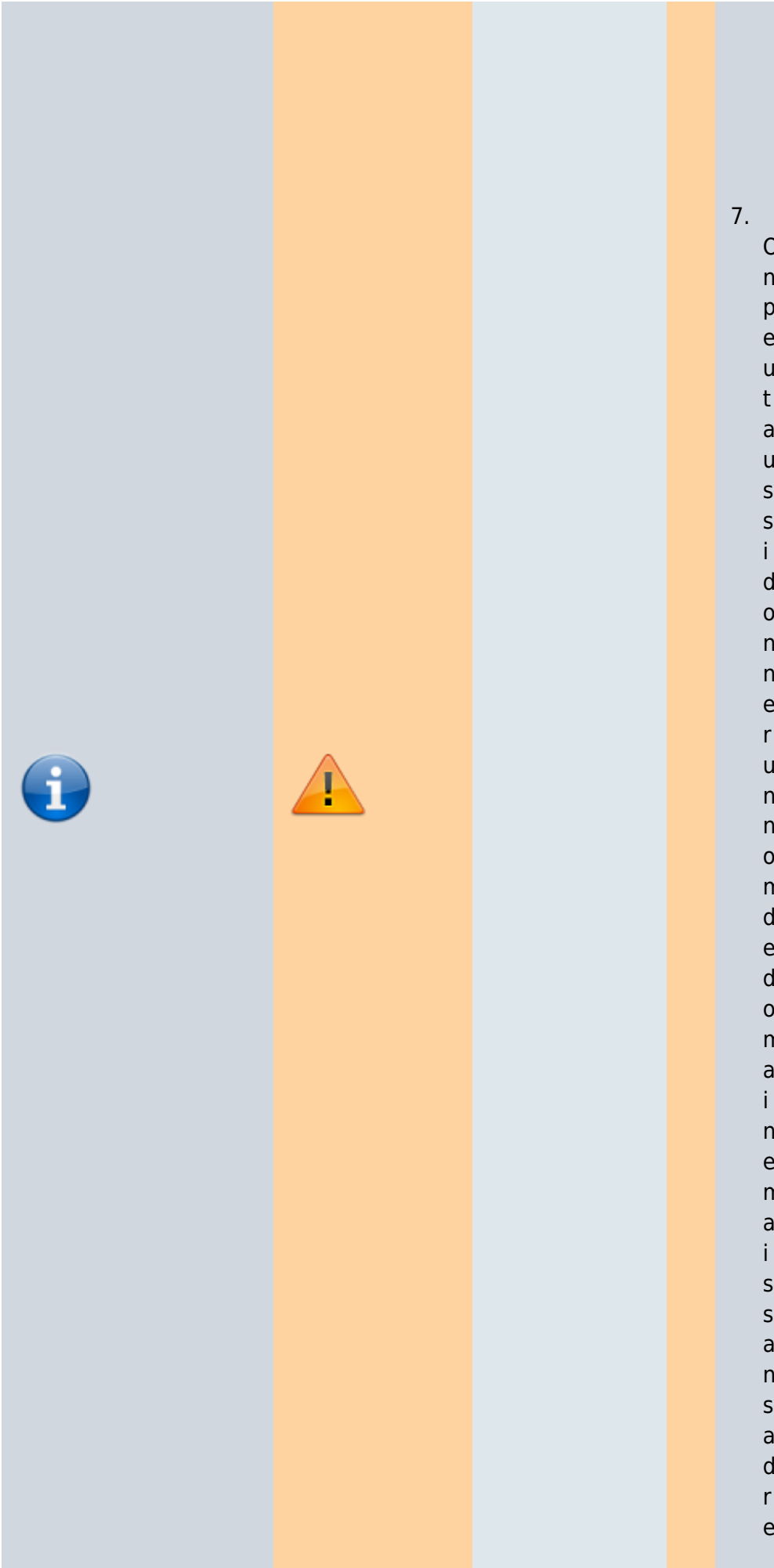
The graphic consists of four vertical bars of different colors: light blue, orange, light blue, and light grey. The orange bar contains a warning icon (a yellow triangle with a black exclamation mark). The light blue bar contains an information icon (a blue circle with a white 'i'). The light grey bar contains a vertical URL: `r  
v  
e  
r  
=  
/  
g  
o  
o  
g  
l  
e  
.  
c  
o  
m  
/  
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  
p



. g o o g l e . c o m i r a c o m m e d . h a b i t u d e a u x s e r v e u r s d é f i n i s p a r d

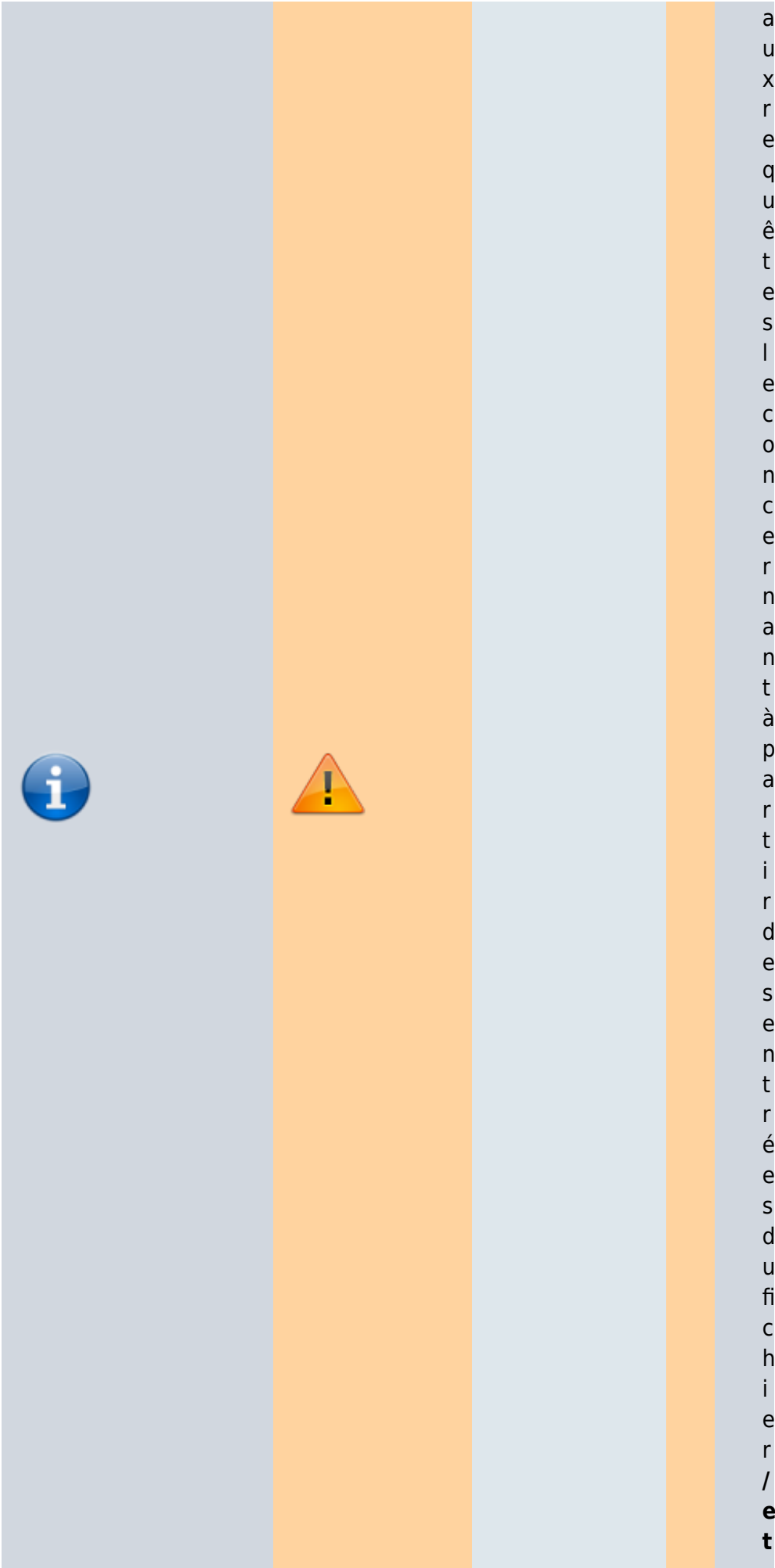


é  
f  
a  
u  
t  
.

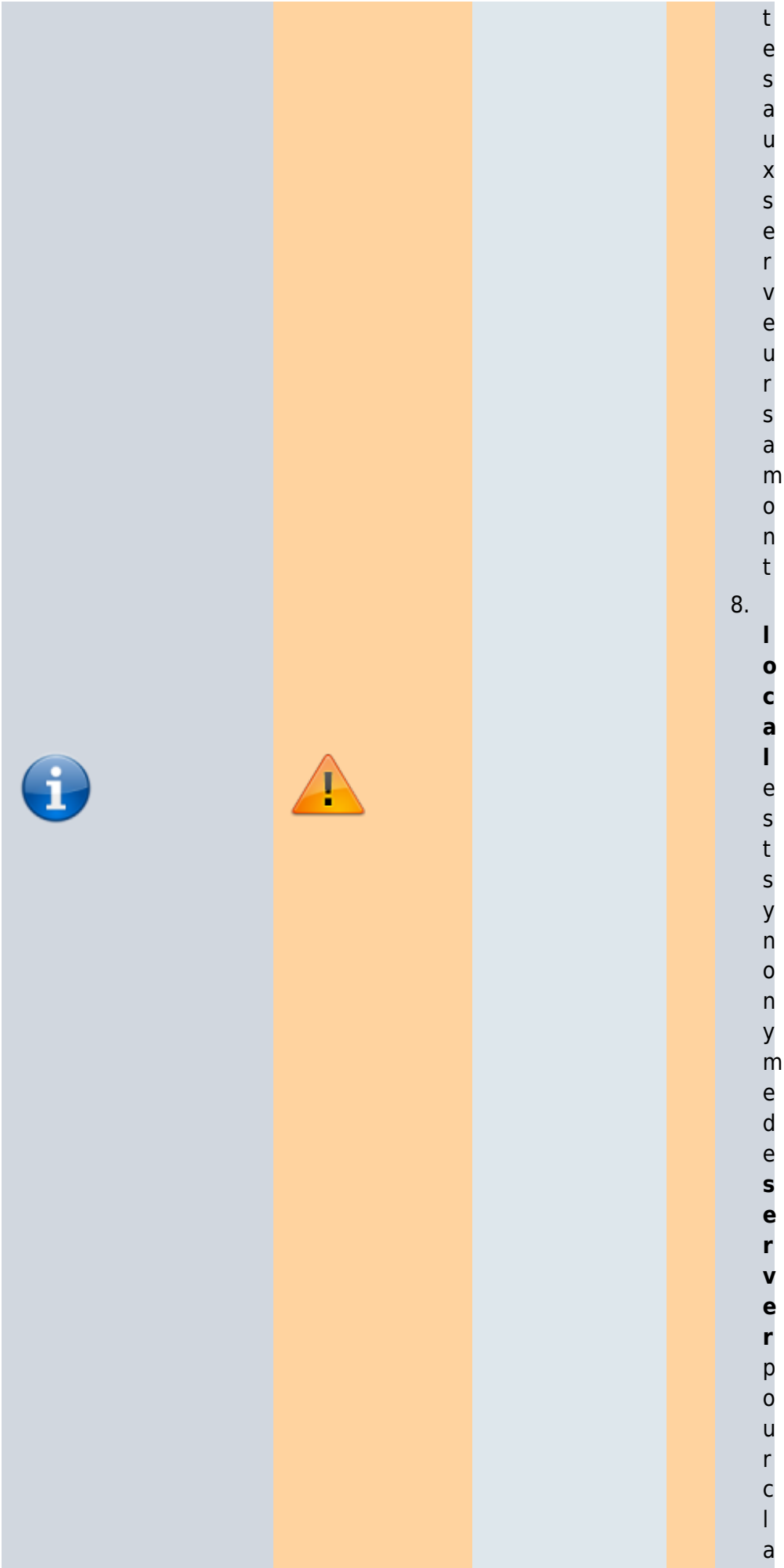
7.

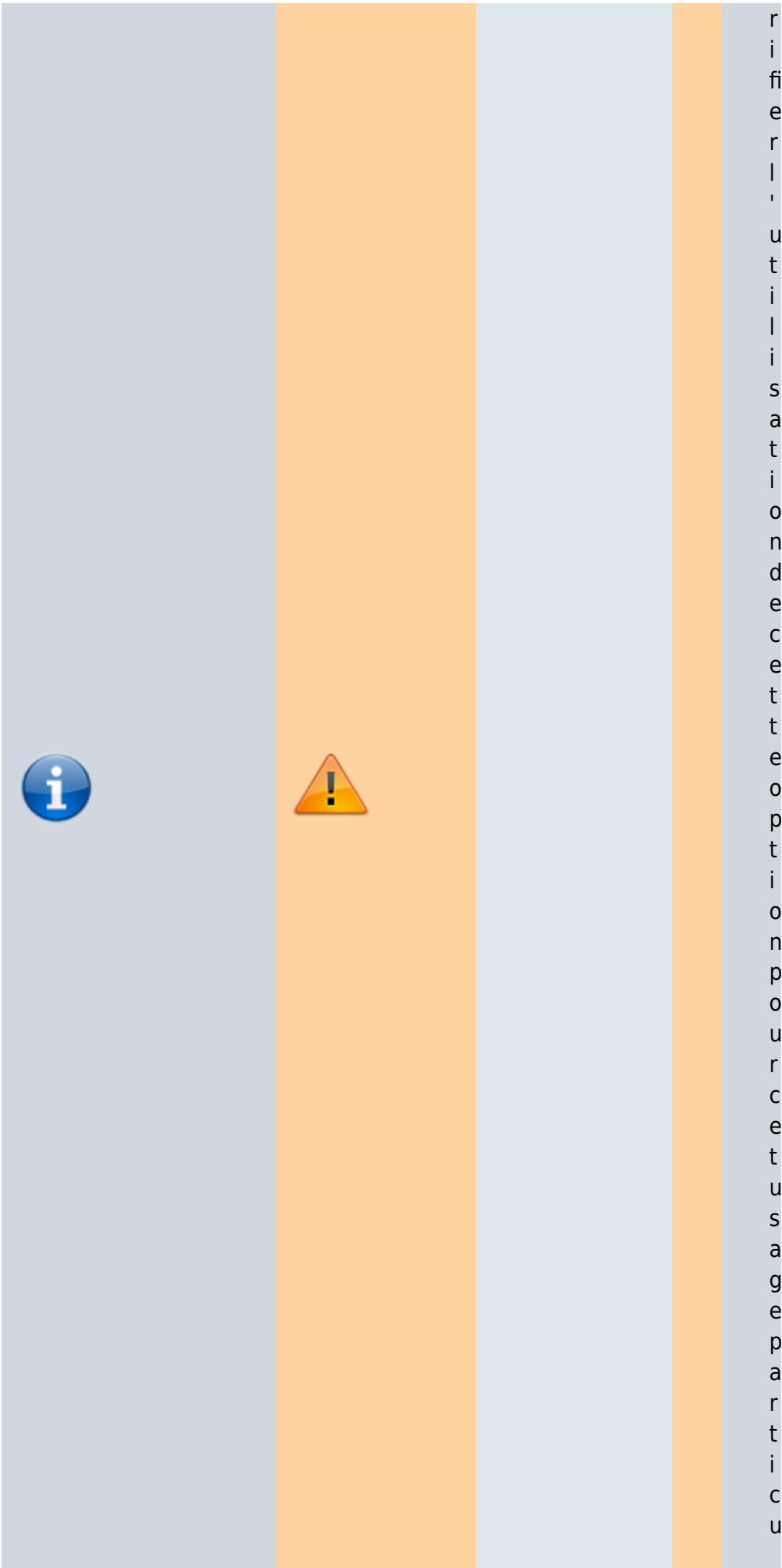
On peut aussi donner un nom de domaine mais sans adresse

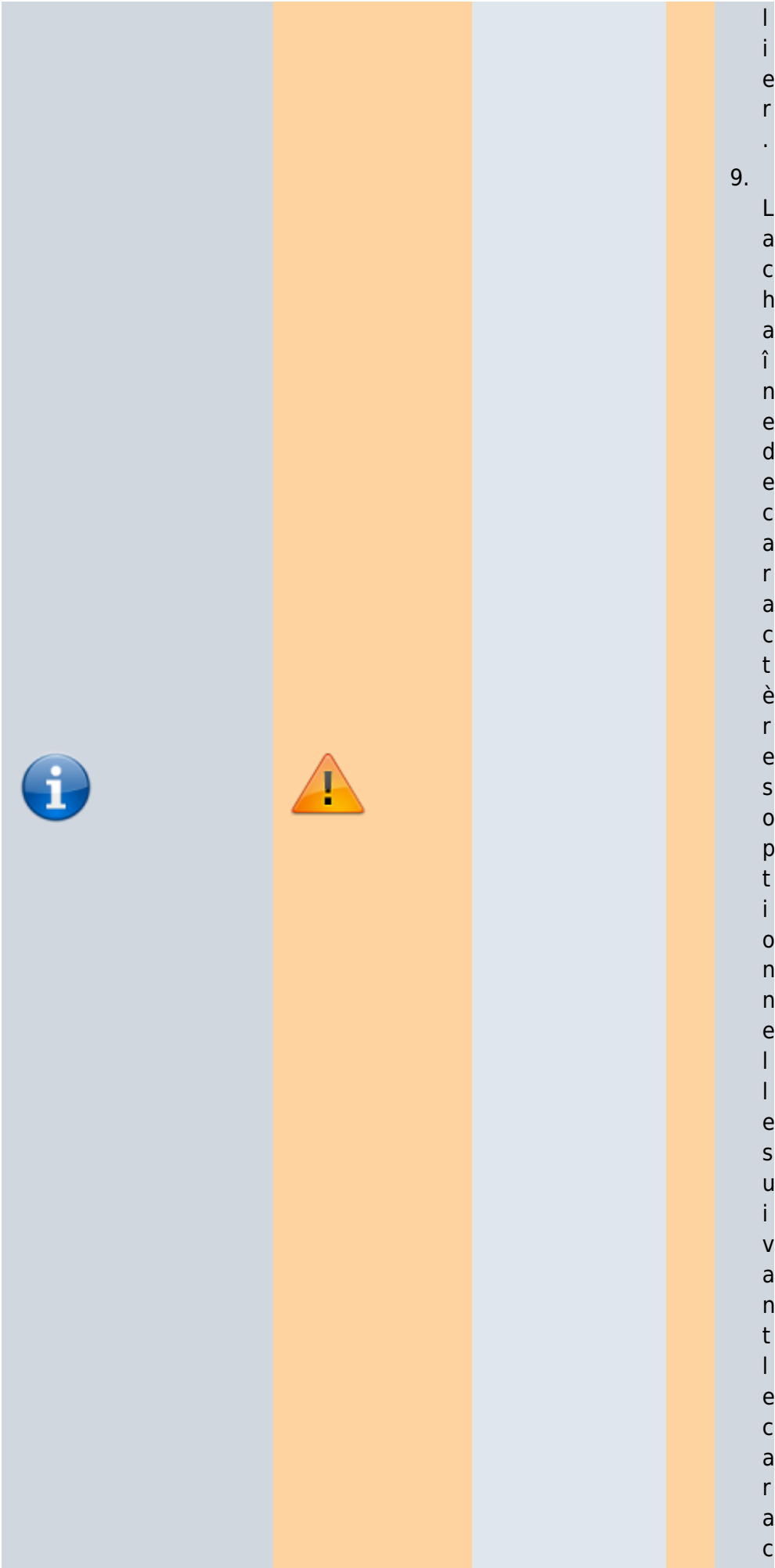
S  
S  
e  
l  
P  
.C  
,  
e  
s  
t  
a  
l  
o  
r  
s  
u  
n  
d  
o  
m  
a  
i  
n  
e  
l  
o  
c  
a  
l  
:  
d  
n  
s  
m  
a  
s  
q  
d  
o  
i  
t  
r  
é  
p  
o  
n  
d  
r  
e



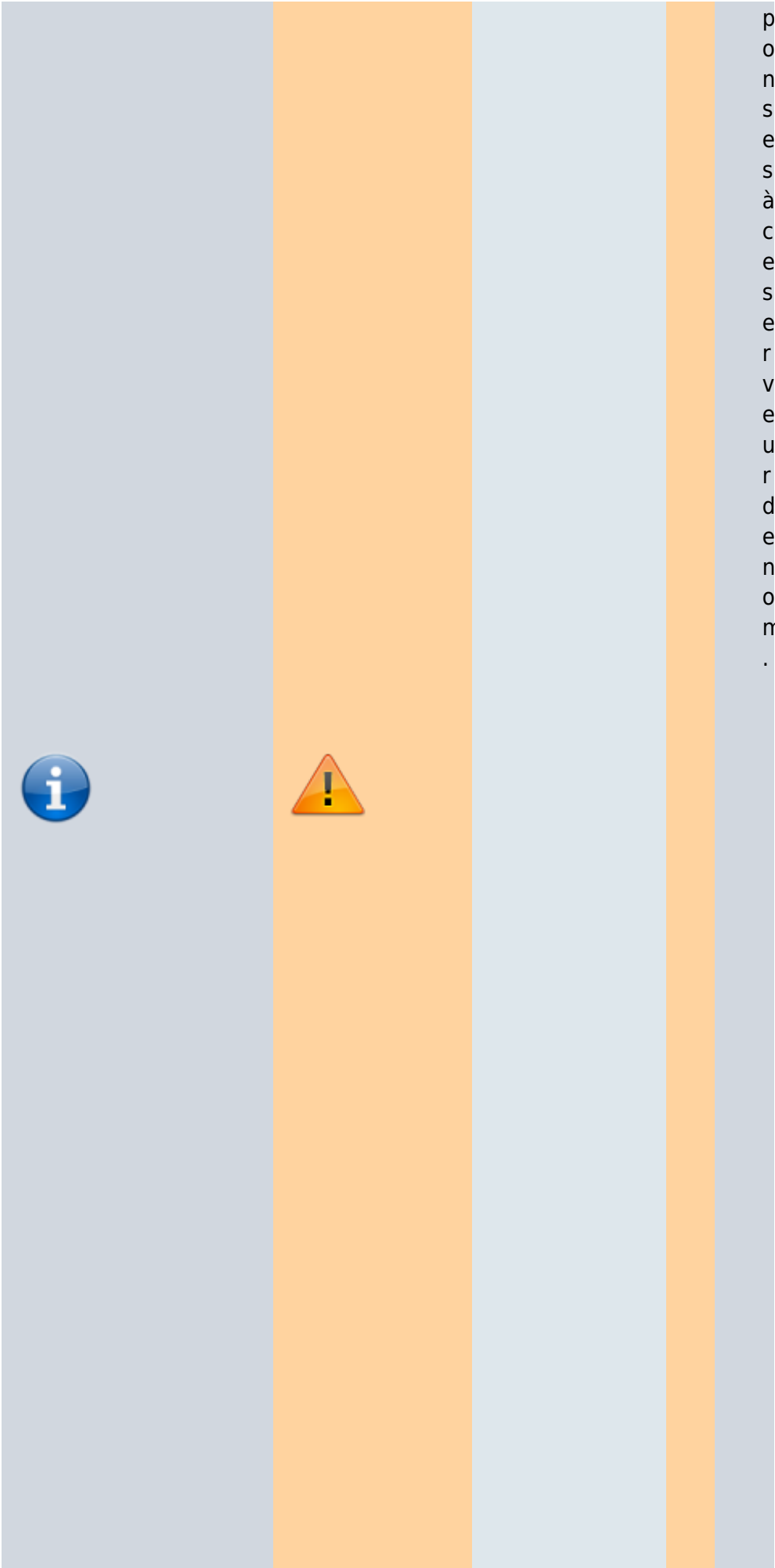
c / h o s t s o u d e s b a u x D H C P , e t n e j a m a i s t r a n s m e t t r e l e s r e q u e



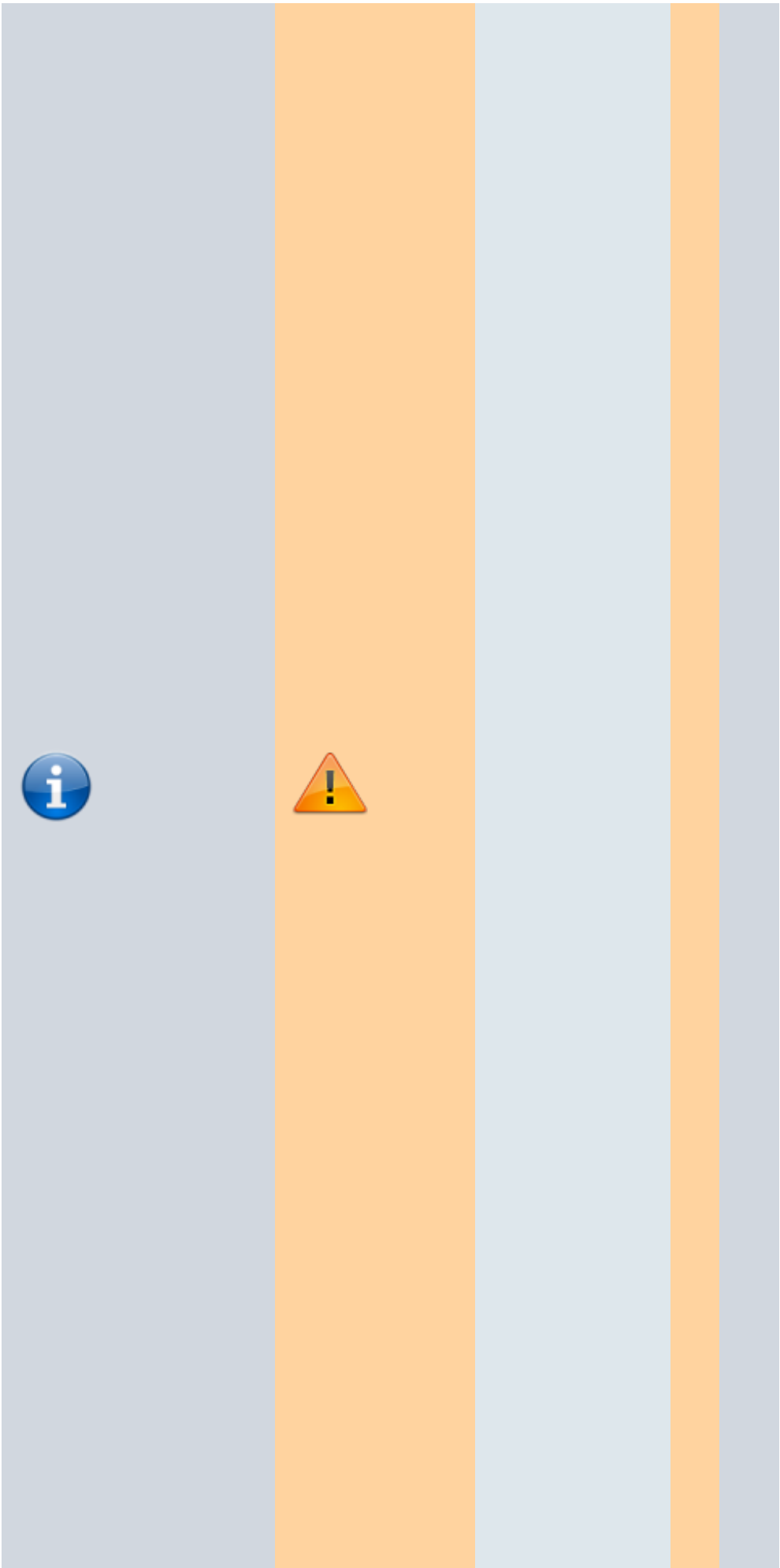




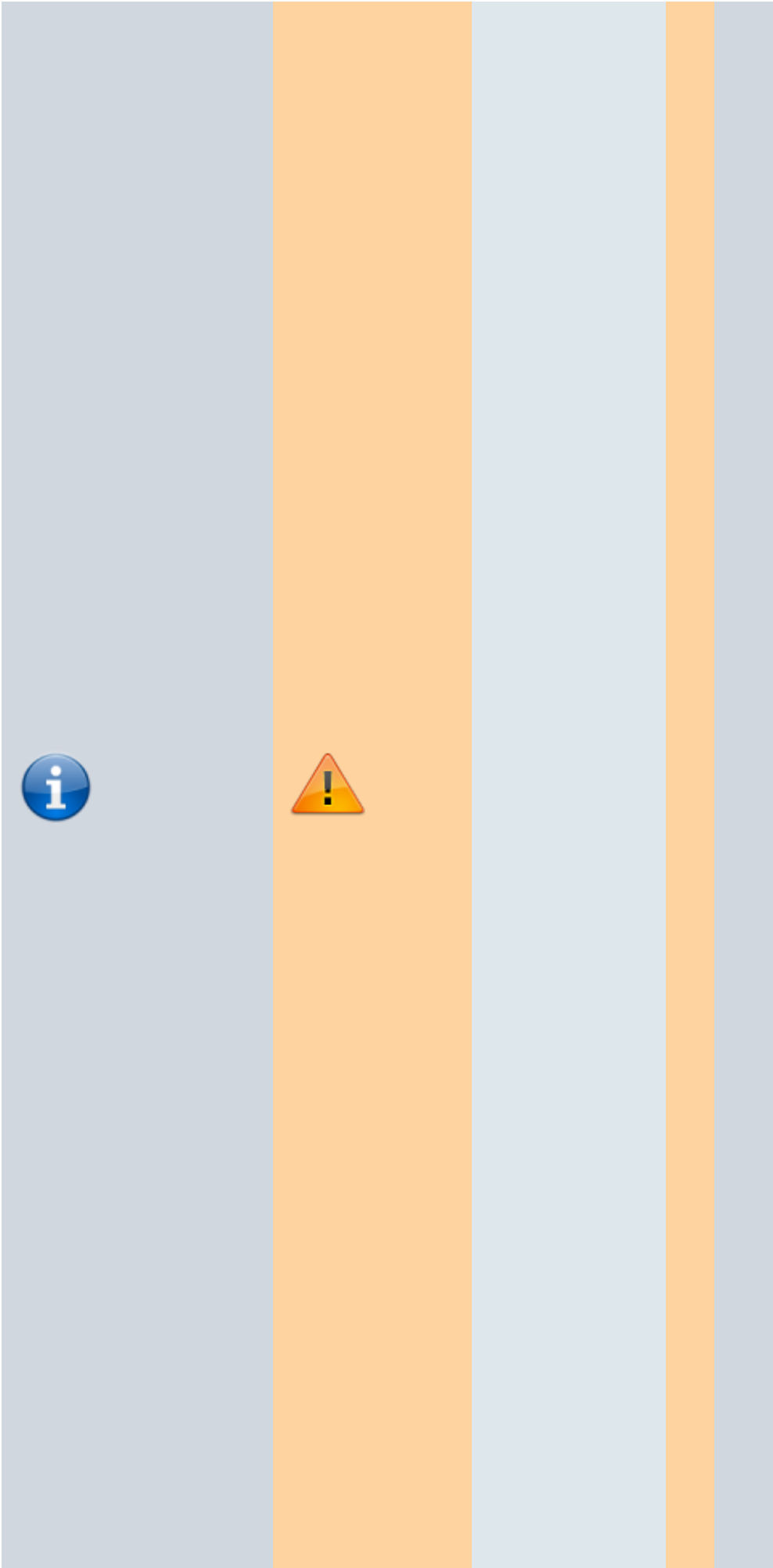
t  
è  
r  
e  
@  
d  
é  
f  
i  
n  
i  
t  
l  
a  
s  
o  
u  
r  
c  
e  
q  
u  
e  
D  
n  
s  
m  
a  
s  
q  
d  
o  
i  
t  
u  
t  
i  
l  
i  
s  
e  
r  
p  
o  
u  
r  
l  
e  
s  
r  
é



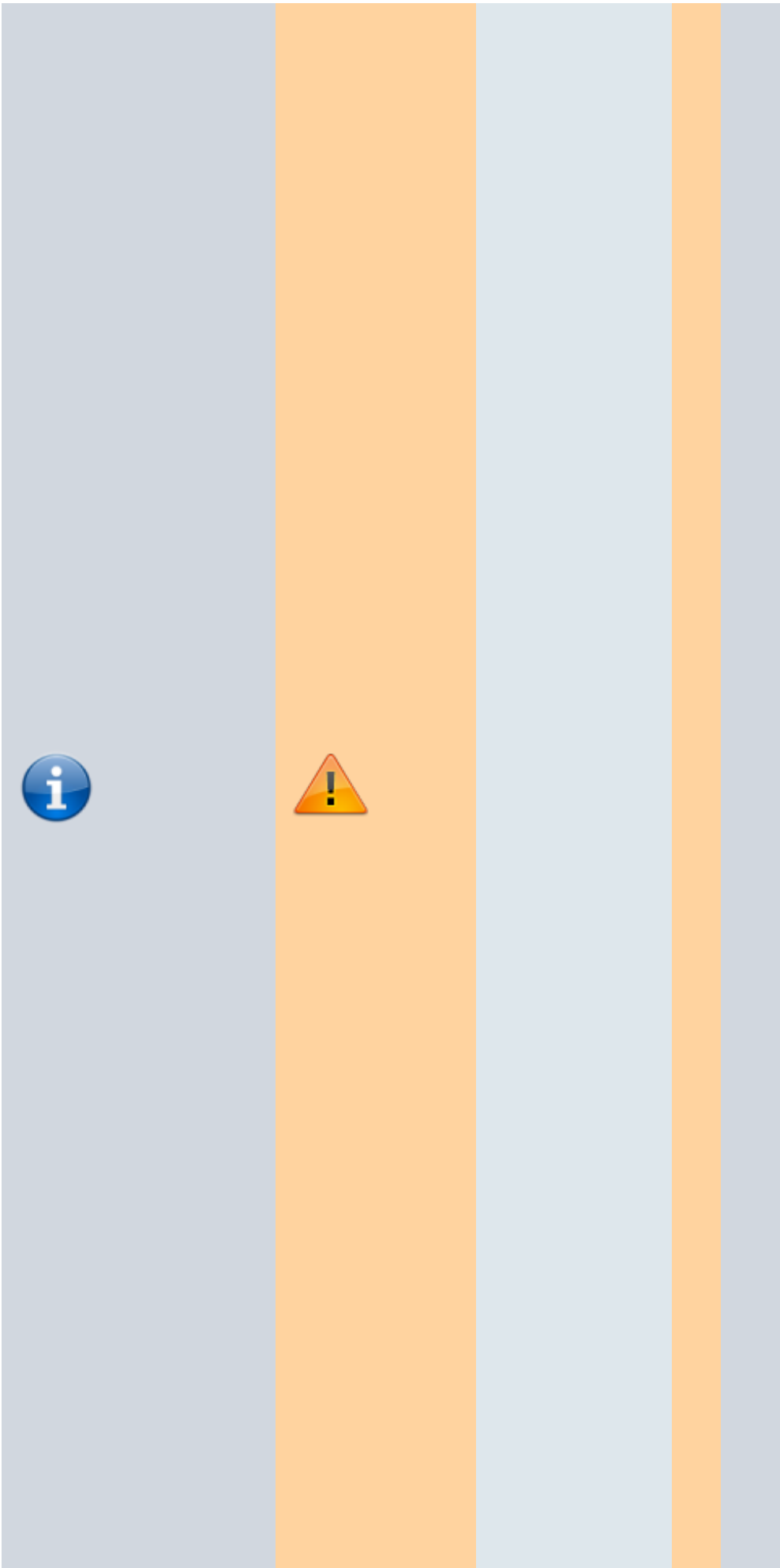
° C e d o i t ê t r e u n e a d r e s s e s l p a p p a r



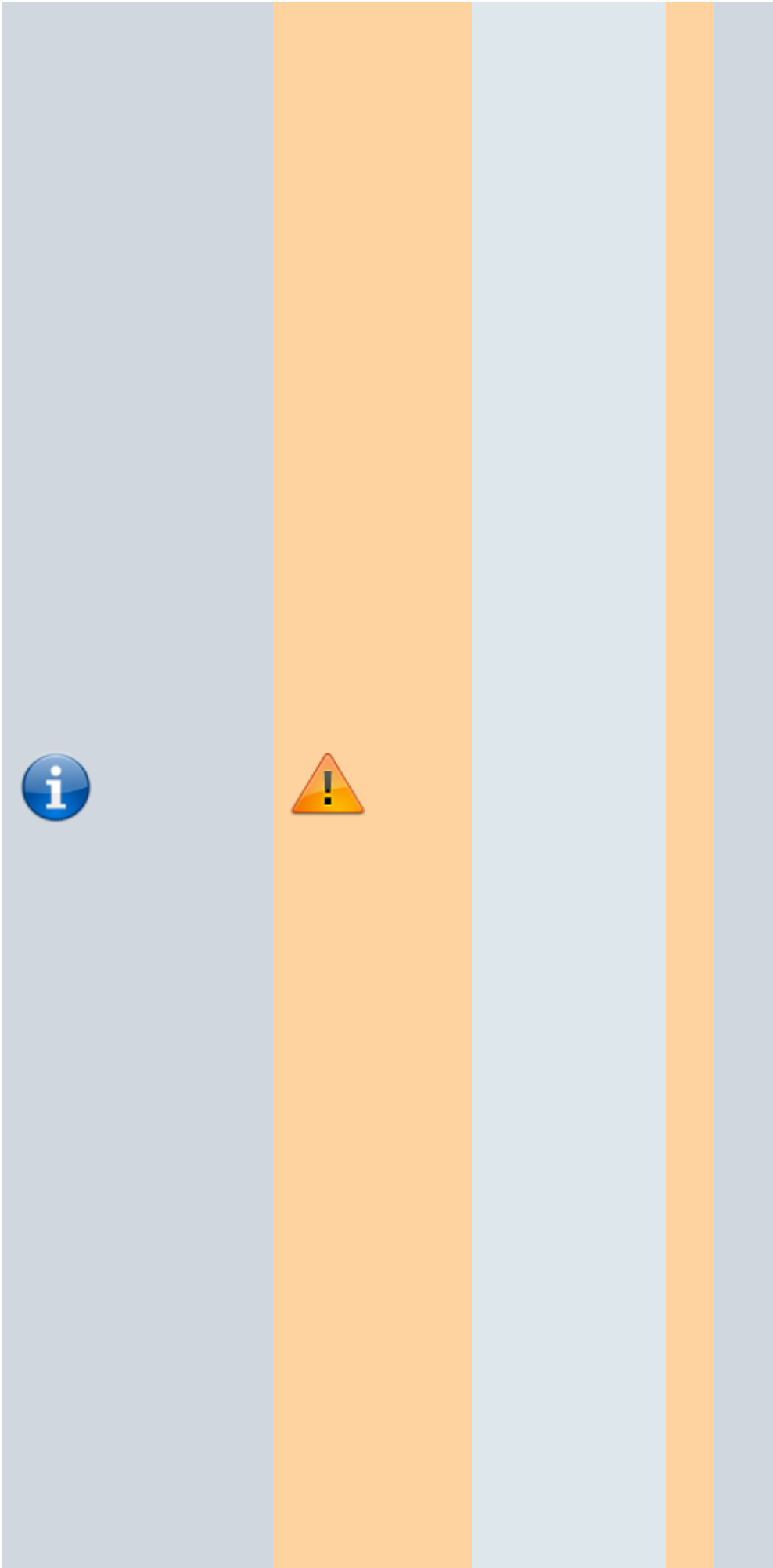
t  
e  
n  
a  
n  
t  
à  
l  
a  
m  
a  
c  
h  
i  
n  
e  
s  
u  
r  
l  
a  
q  
u  
e  
l  
l  
e  
t  
o  
u  
r  
n  
e  
D  
n  
s  
m  
a  
s  
q  
;  
s  
i  
n  
o  
n  
l  
a  
l  
i



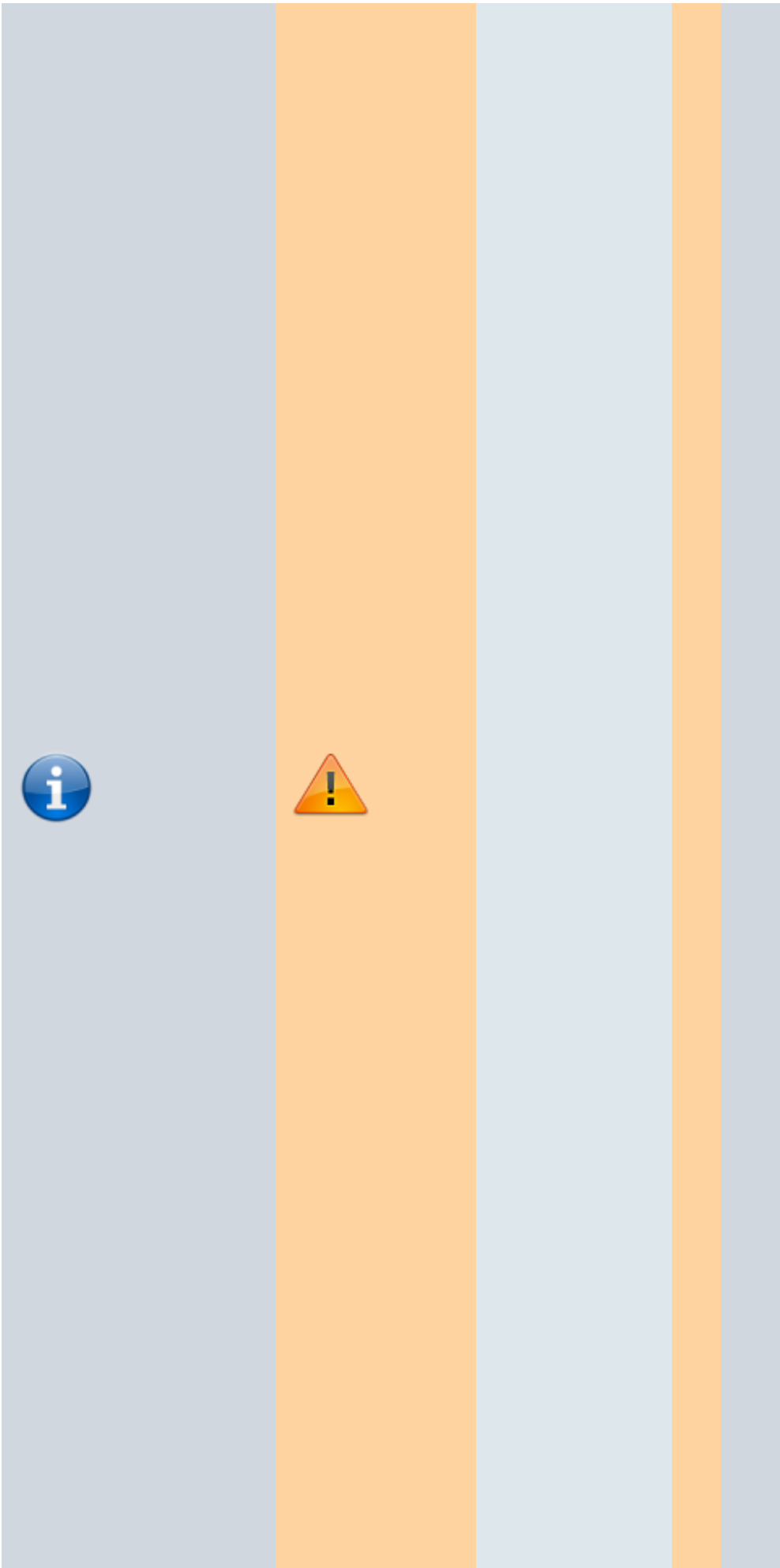
g  
n  
e  
s  
e  
r  
a  
i  
g  
n  
o  
r  
é  
e  
t  
u  
n  
e  
r  
r  
e  
u  
r  
s  
e  
r  
a  
c  
o  
n  
s  
i  
g  
n  
é  
e  
d  
a  
n  
s  
l  
e  
j  
o  
u  
r  
n  
a  
l



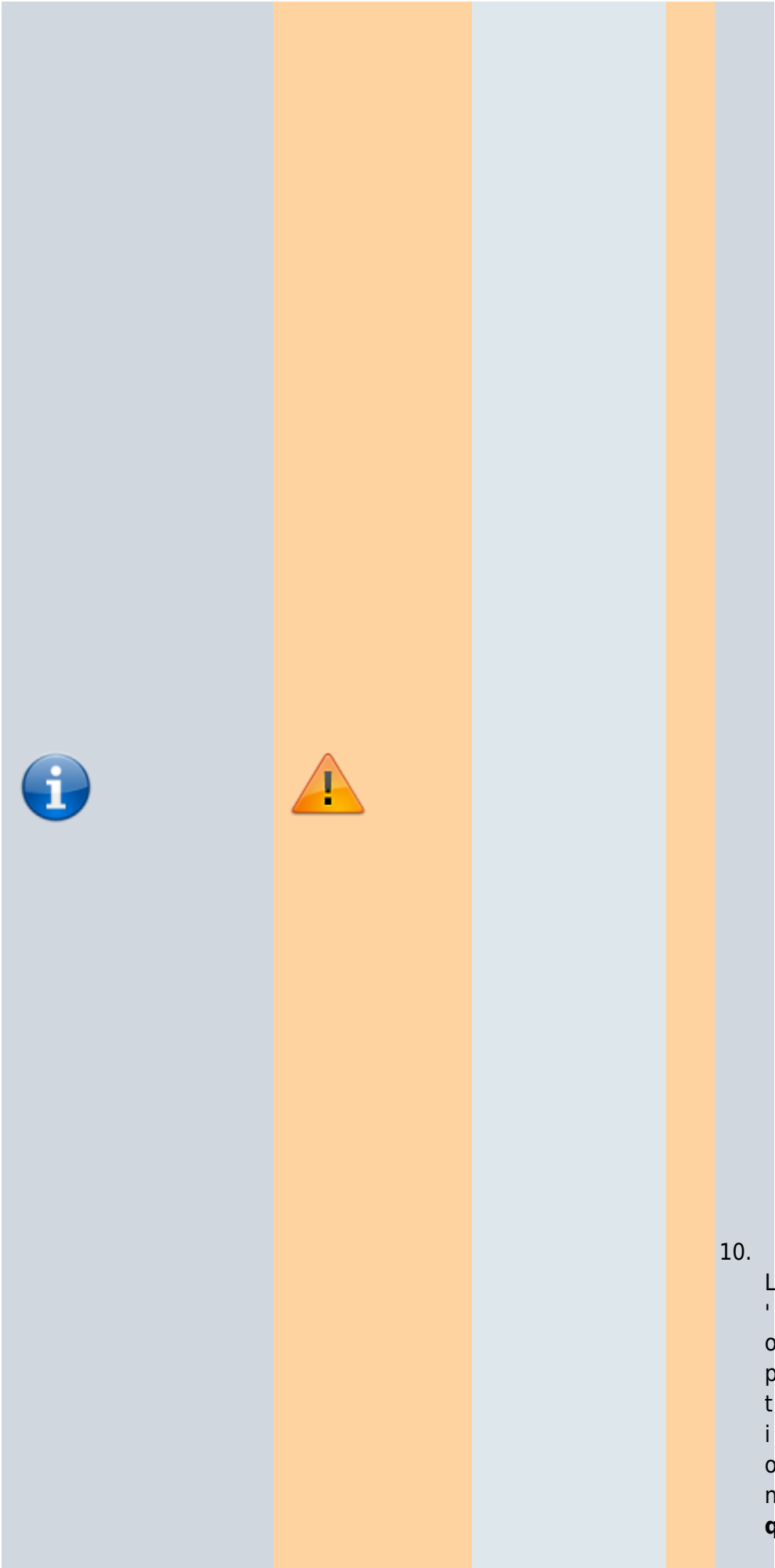
d  
e  
s  
é  
v  
é  
n  
e  
m  
e  
n  
t  
s  
.  
◦ S  
i  
u  
n  
n  
o  
m  
d  
,  
i  
n  
t  
e  
r  
f  
a  
c  
e  
e  
s  
t  
d  
o  
n  
n  
é  
,  
a  
l  
o  
r  
s  
l  
e  
s



r  
e  
q  
u  
ê  
t  
e  
s  
v  
e  
r  
s  
l  
e  
s  
e  
r  
v  
e  
u  
r  
d  
e  
n  
o  
m  
s  
e  
r  
o  
n  
t  
e  
n  
v  
o  
y  
é  
e  
s  
d  
e  
p  
u  
i  
s  
c  
e  
t  
t  
e



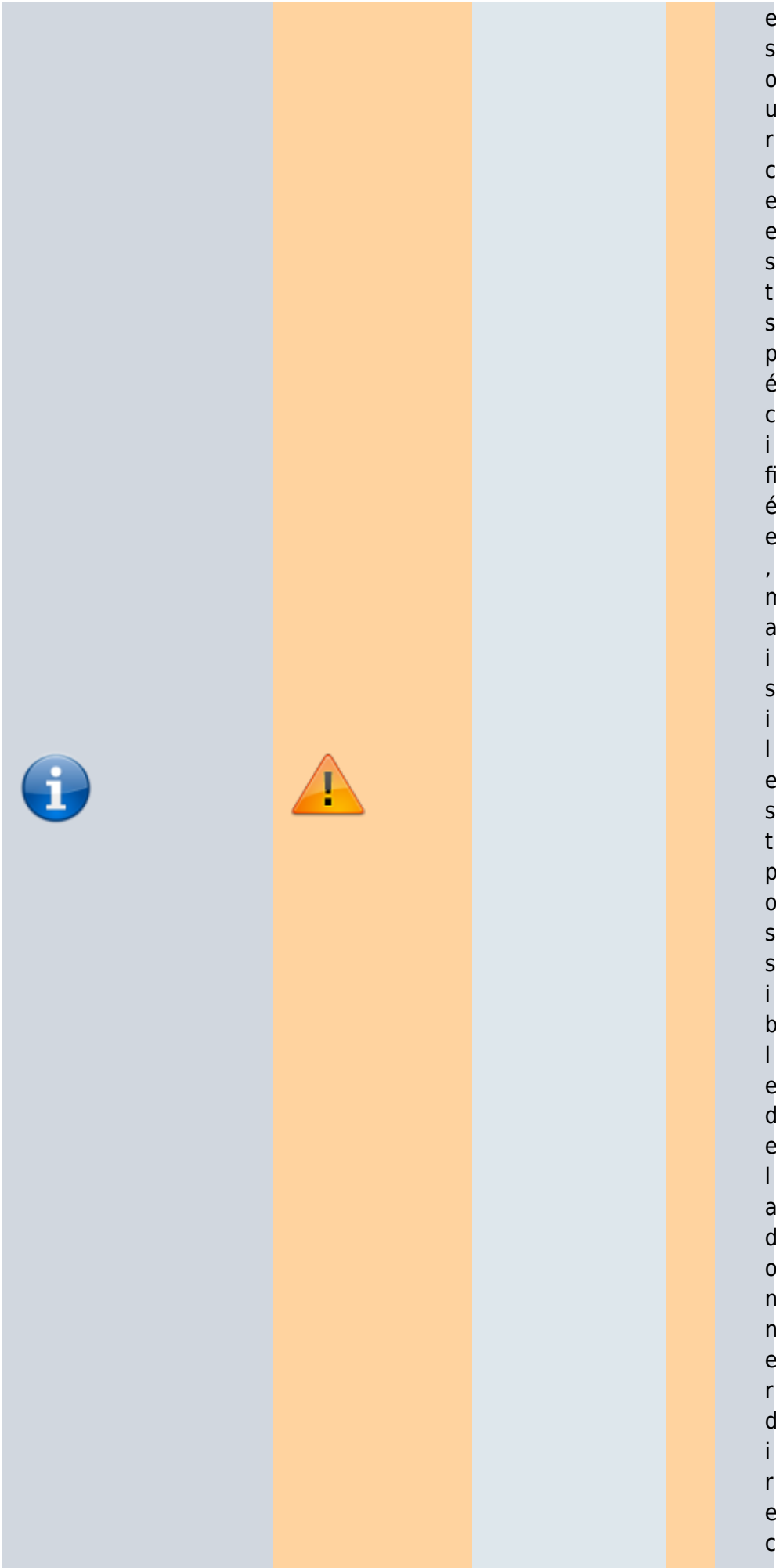
i  
n  
t  
e  
r  
f  
a  
c  
e  
;  
◦ s  
i  
u  
n  
e  
a  
d  
r  
e  
s  
s  
e  
l  
P  
e  
s  
t  
d  
o  
n  
n  
é  
e  
,  
a  
l  
o  
r  
s  
l  
,  
a  
d  
r  
e  
s  
s  
e  
s



o  
u  
r  
c  
e  
d  
e  
l  
a  
r  
e  
q  
u  
ê  
t  
e  
s  
e  
r  
a  
l  
,  
a  
d  
r  
e  
s  
s  
e  
e  
n  
q  
u  
e  
s  
t  
i  
o  
n  
.

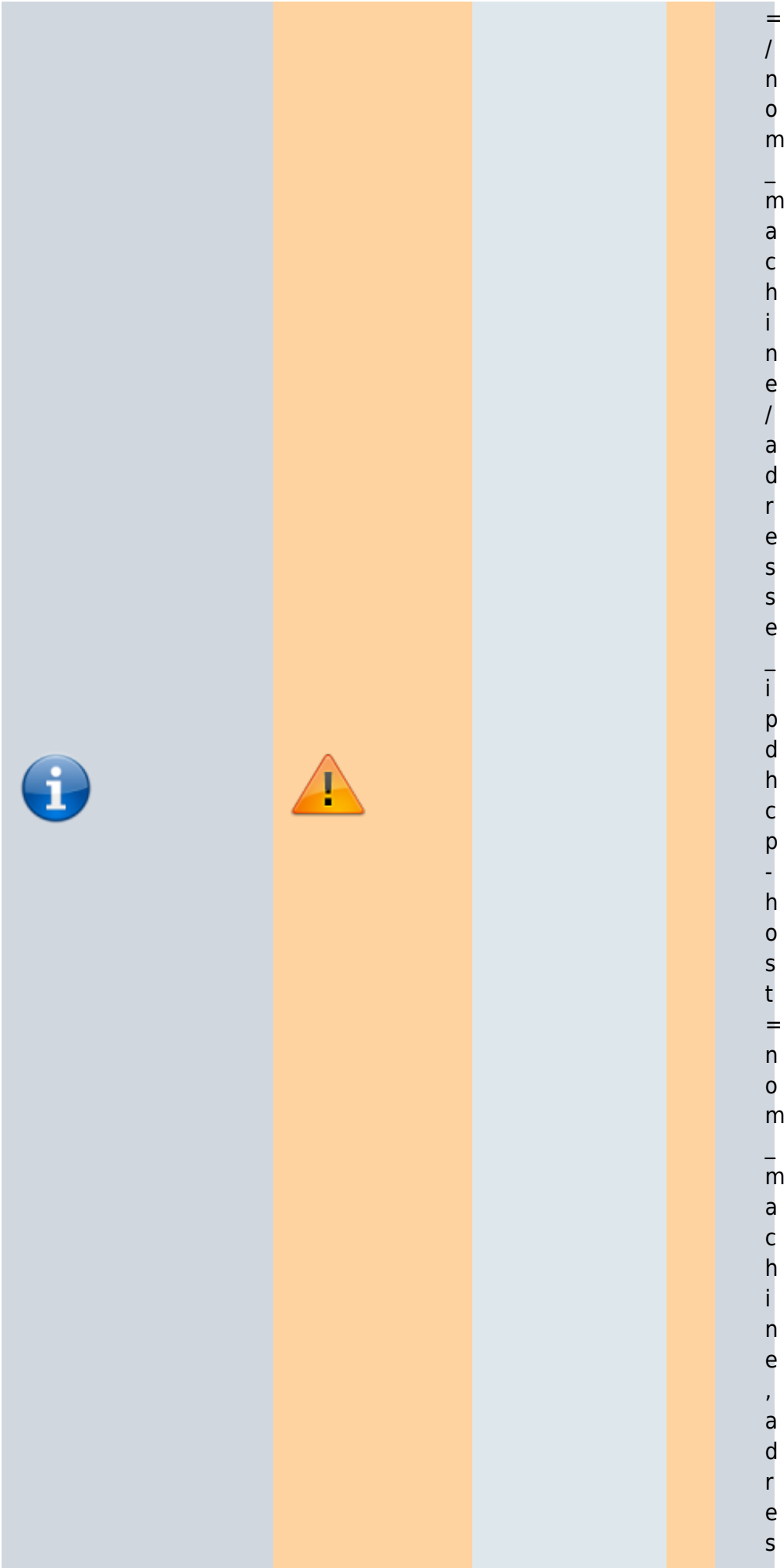
10.  
L  
'  
o  
p  
t  
i  
o  
n  
q

u  
e  
r  
y  
-  
p  
o  
r  
t  
e  
s  
t  
i  
g  
n  
o  
r  
é  
e  
p  
o  
u  
r  
t  
o  
u  
s  
l  
e  
s  
s  
e  
r  
v  
e  
u  
r  
s  
d  
o  
n  
t  
l  
'  
a  
d  
r  
e  
s  
s

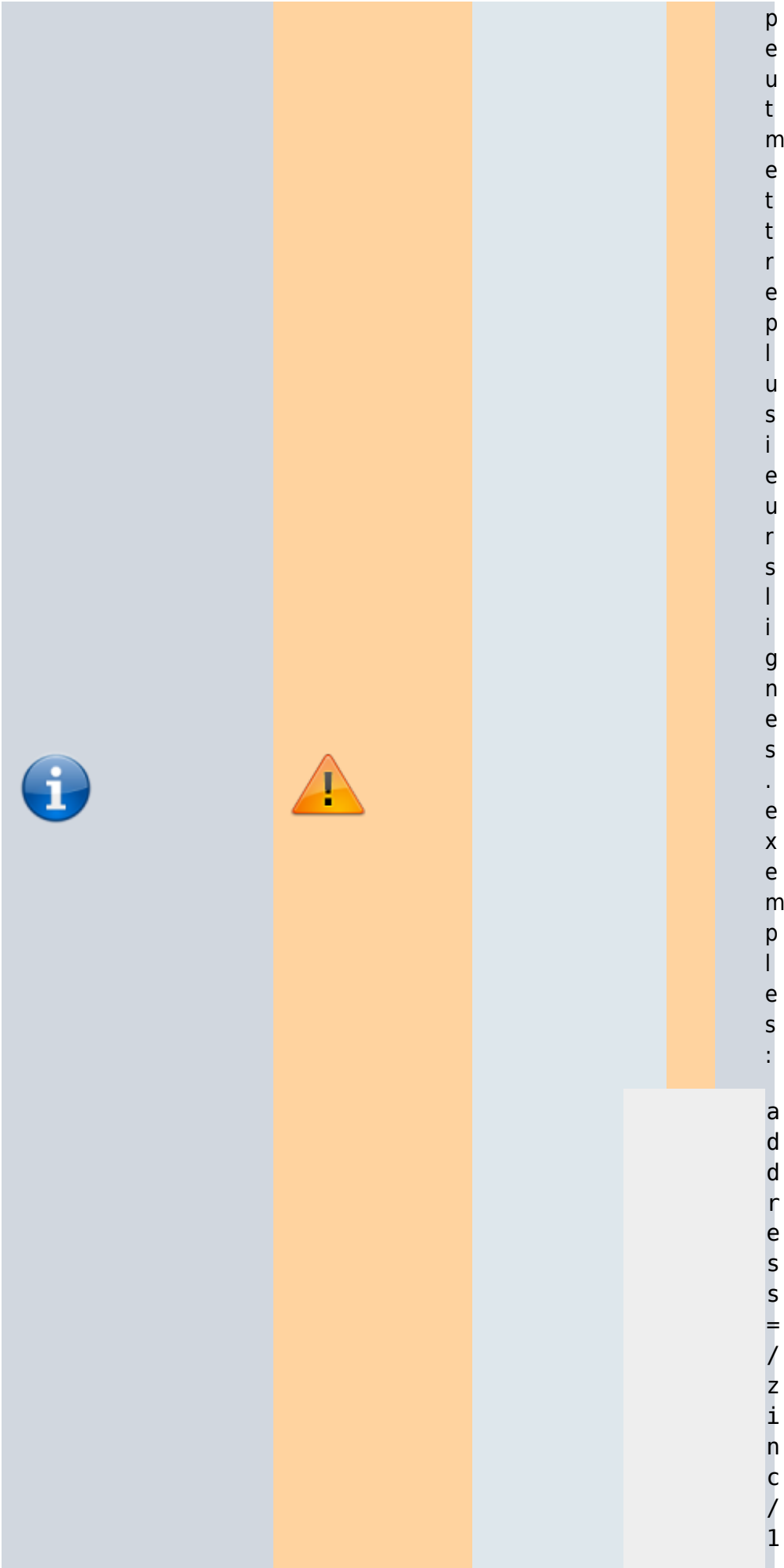


				t
				e
				m
				e
				n
				t
				d
				a
				n
				s
				l
				a
				s
				p
				é
				c
				i
				f
				c
				a
				t
				i
				o
				n
				d
				e
				l
				·
				a
				d
				r
				e
				s
				s
				e
				s
				o
				u
				r
				c
				e
				.
				a
				d
				d
				r
				e
				s
				s

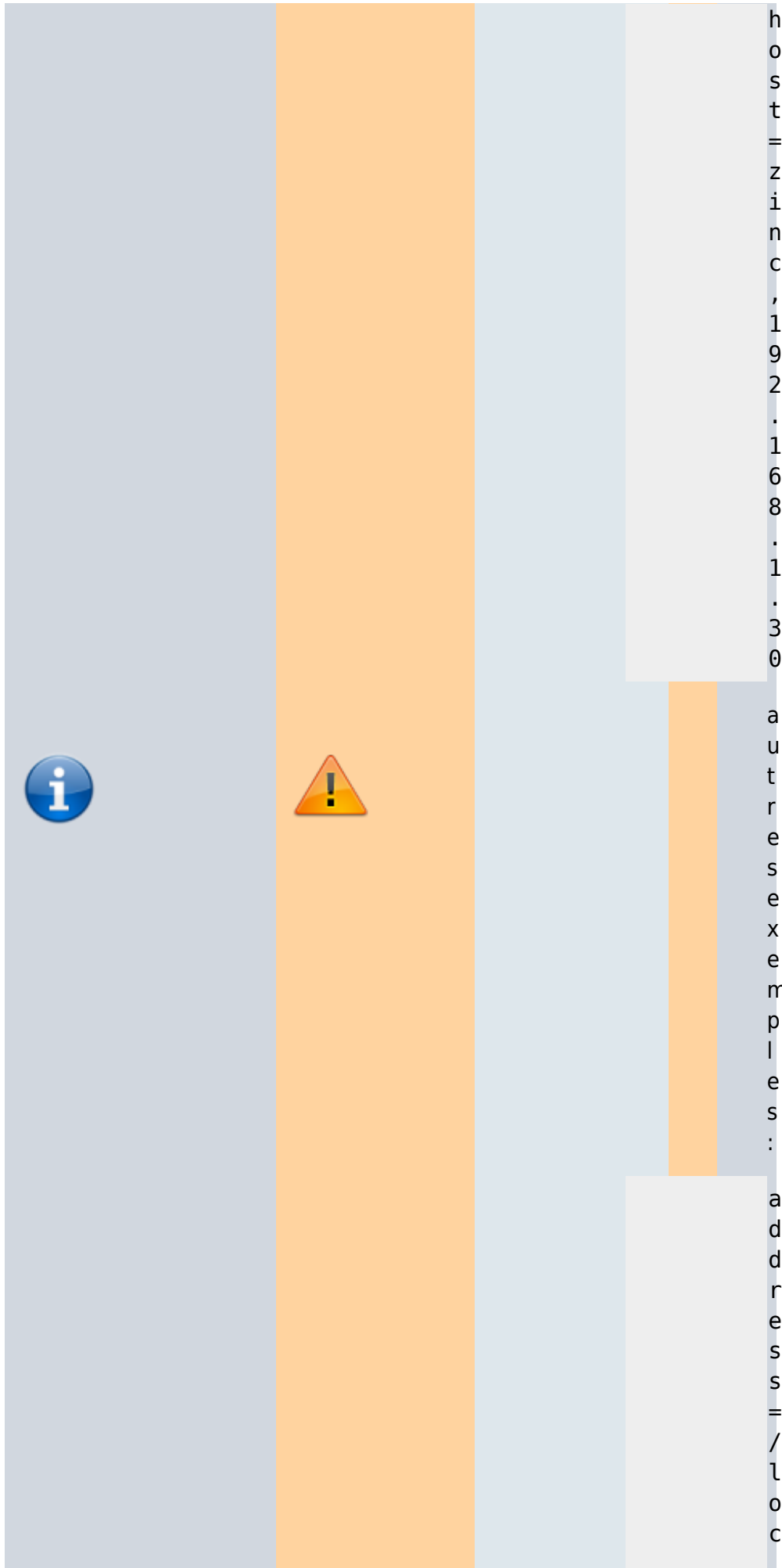




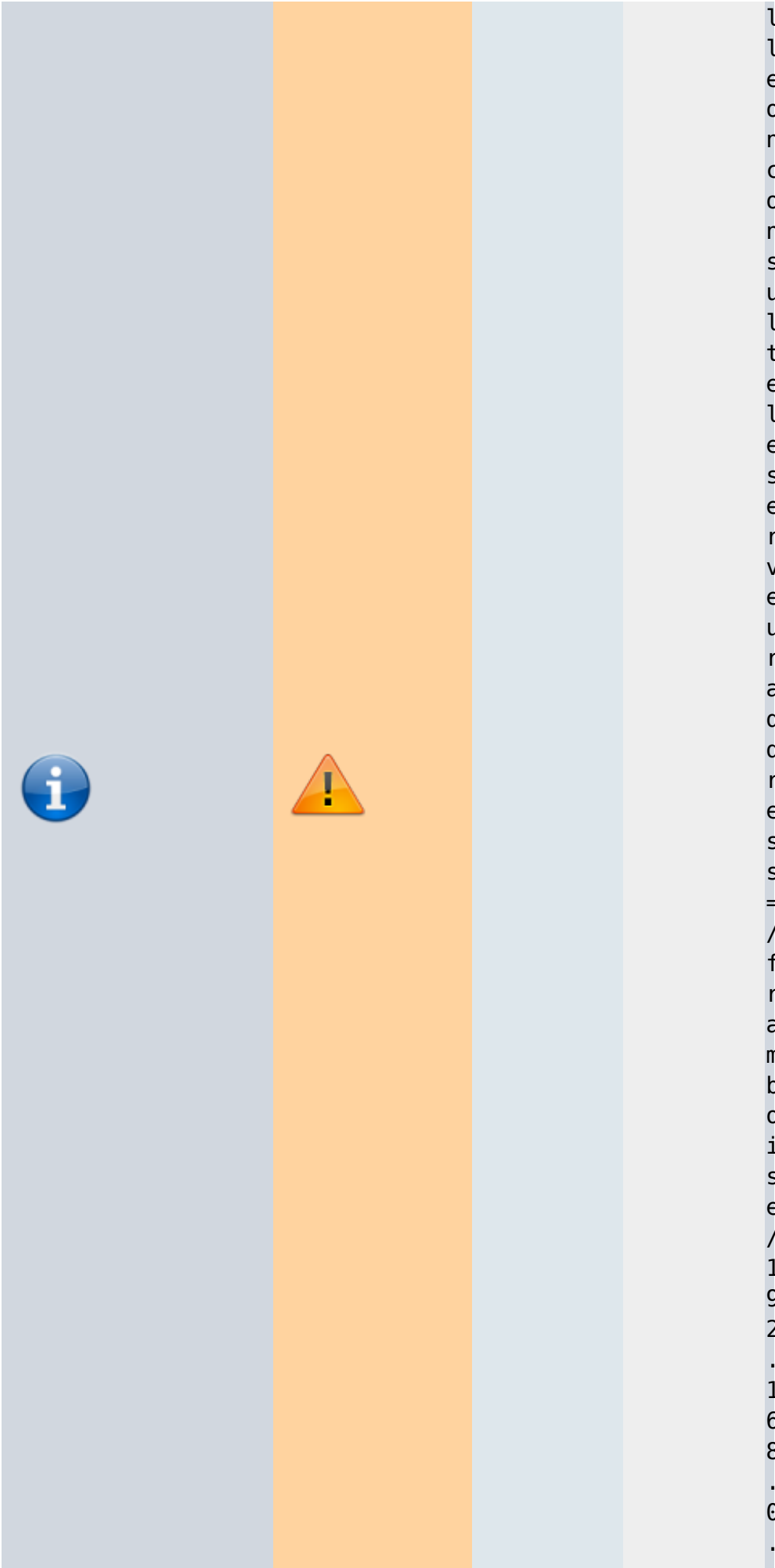
se  
-  
i  
p  
d  
é  
f  
i  
n  
i  
t  
u  
n  
e  
a  
d  
r  
e  
s  
s  
e  
l  
p  
p  
o  
u  
r  
l  
a  
m  
a  
c  
h  
i  
n  
e  
n  
o  
m  
-  
m  
a  
c  
h  
i  
n  
e  
;  
o  
n

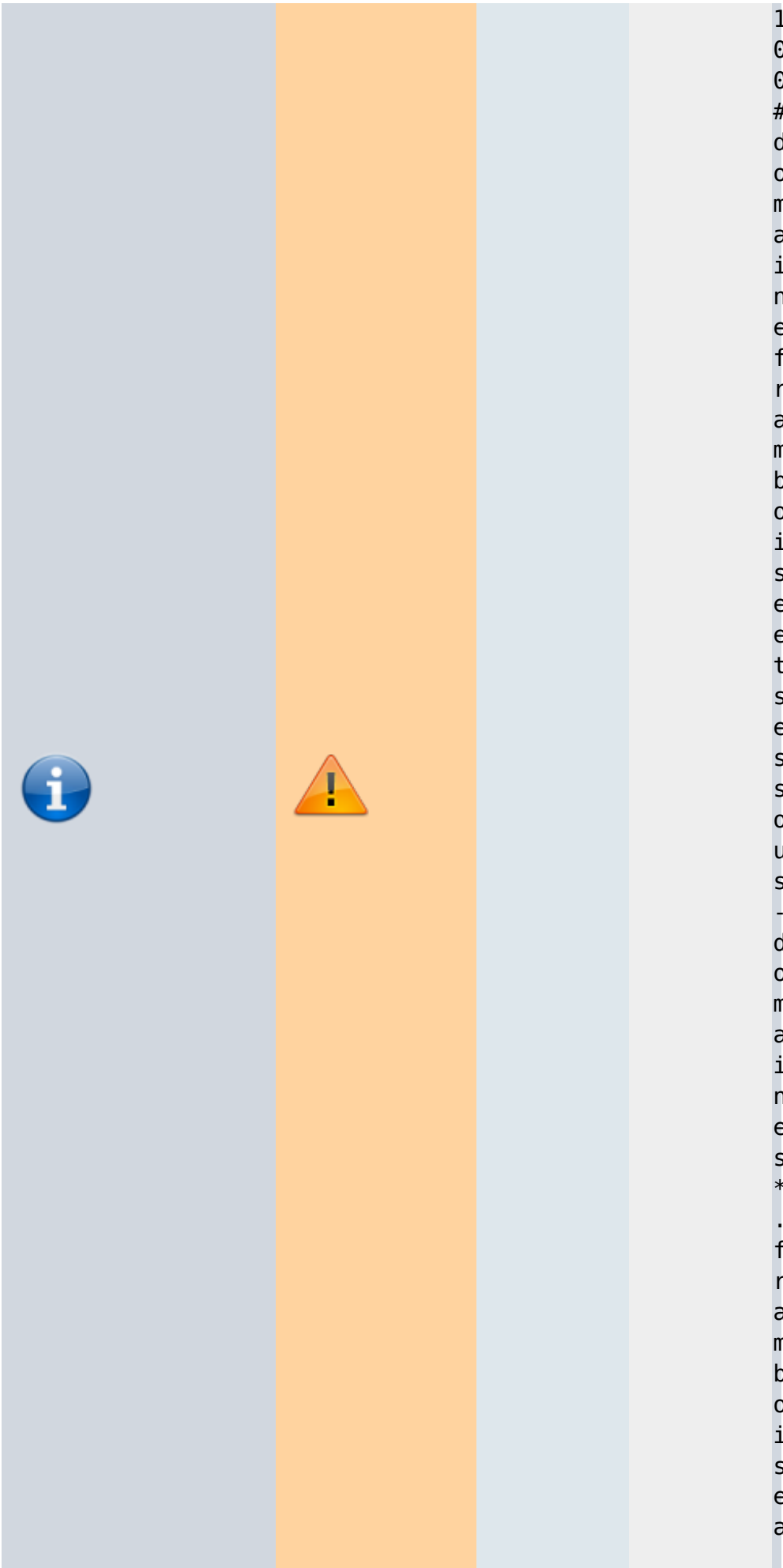


9  
2  
. 1  
6 8  
. 1  
. 3  
0 a  
d d  
r e  
s s  
=  
/  
z  
i  
r  
c  
o  
n  
i  
u  
m  
/  
z  
r  
/  
1  
9  
2  
. 1  
6 8  
. 1  
. 3  
1  
d  
h  
c  
p  
-



alhost/127.0.0.1#lelocalhostdelamachinedepoussillaque

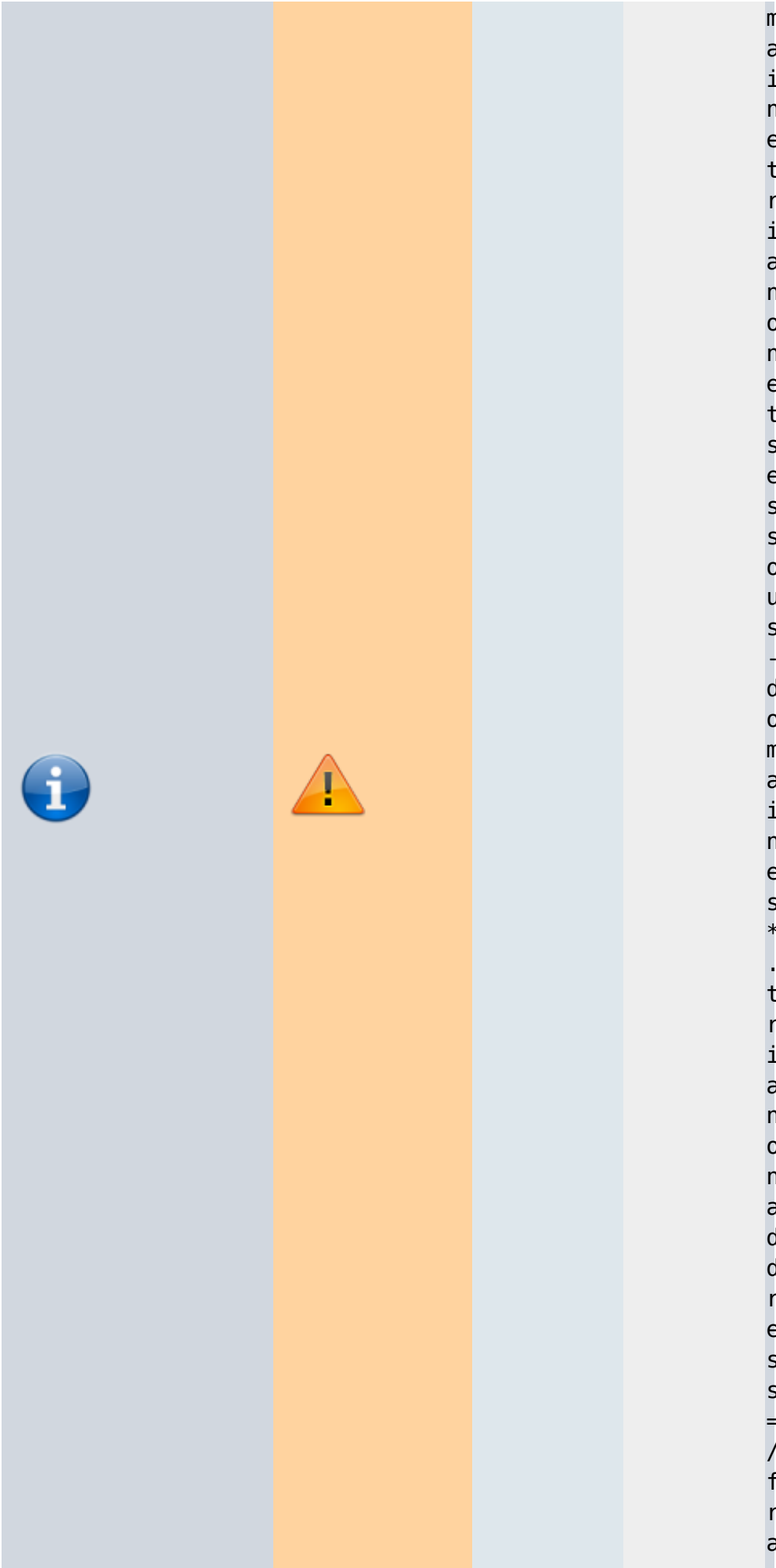




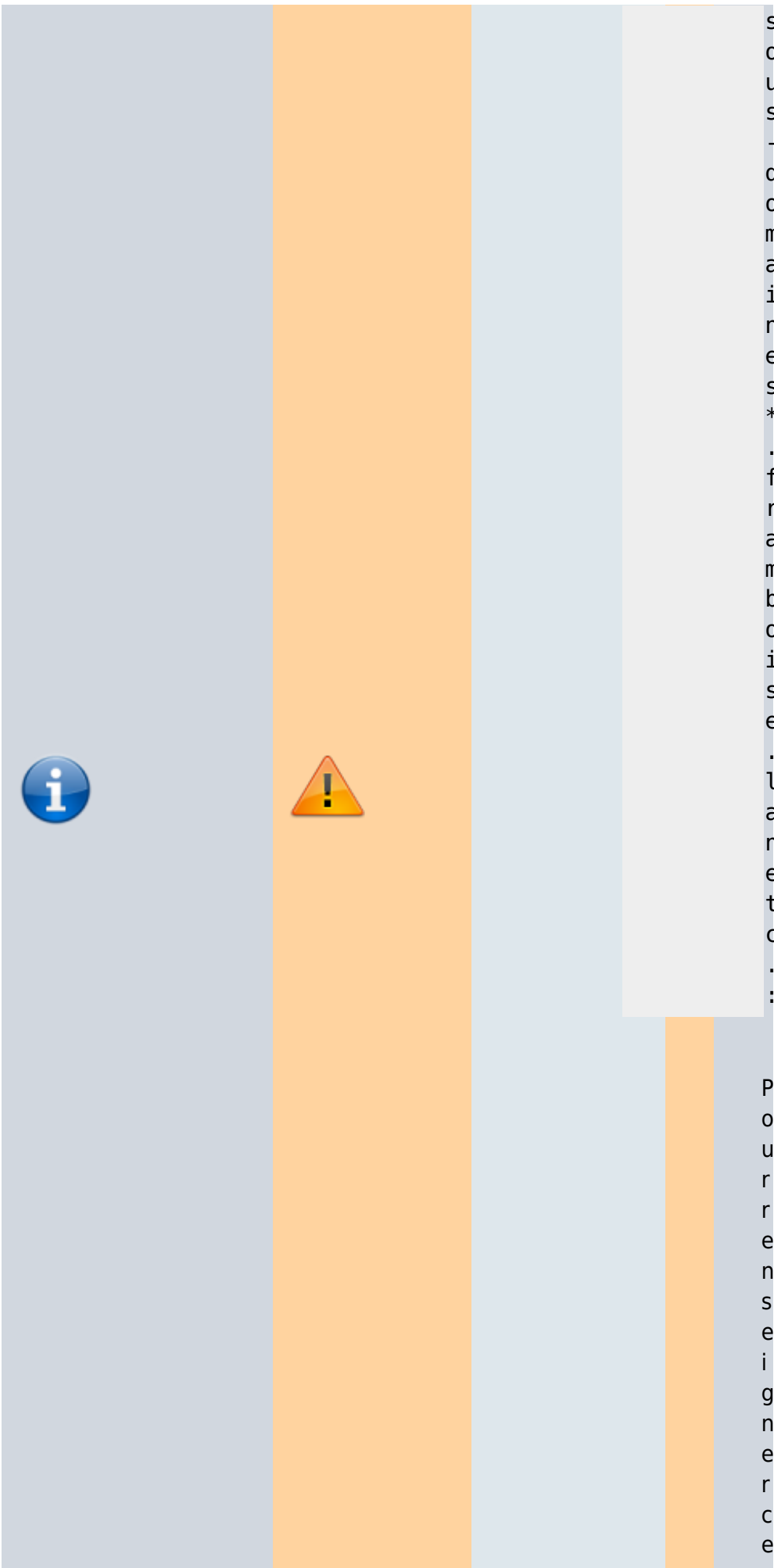
The banner consists of four vertical sections of different colors. From left to right: a light blue section with a blue information icon (a lowercase 'i' in a circle); an orange section with a yellow warning icon (a triangle with an exclamation mark); another light blue section; and a light grey section containing the text '100#domaineframboisessestsesous-domaines\*.framboisesa' written vertically.

The diagram consists of four vertical bars of different colors: light blue, orange, light blue, and light grey. On the left side of the first light blue bar is a blue circular icon with a white lowercase letter 'i'. On the orange bar is a yellow triangular warning icon with a black exclamation mark. On the right side, a vertical column of text reads: "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".

- 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



mbouisel.lan/192.168.0.100#domaineframboises.lanetses

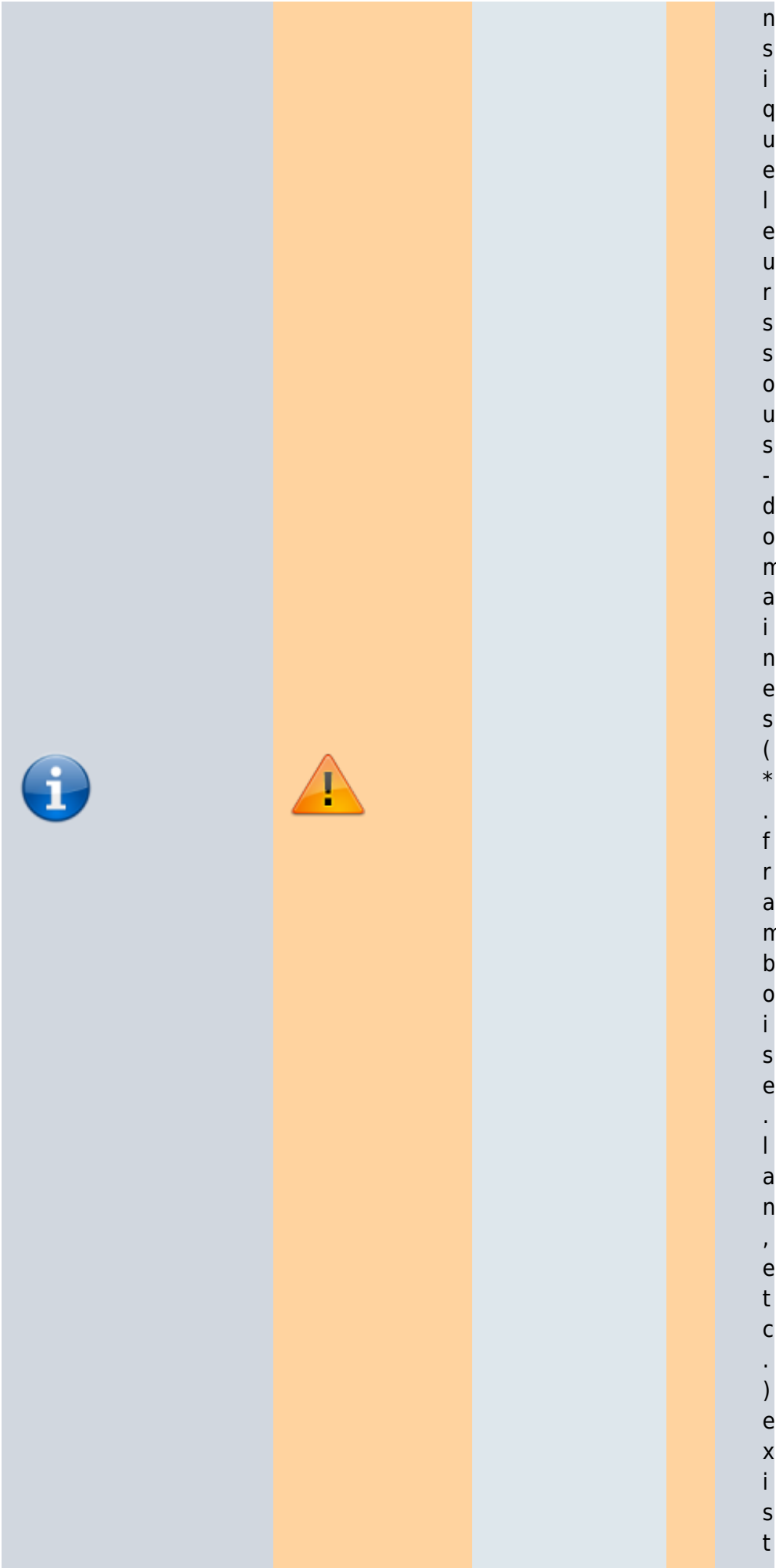


fi  
c  
h  
i  
e  
r  
,  
v  
o  
i  
r  
P  
a  
r  
a  
m  
è  
t  
r  
e  
s  
d  
e  
d  
n  
s  
m  
a  
s  
q  
.  
c  
o  
n  
f  
C  
e  
s  
t  
t  
o  
u  
t  
.  
R  
e  
d  
é  
m

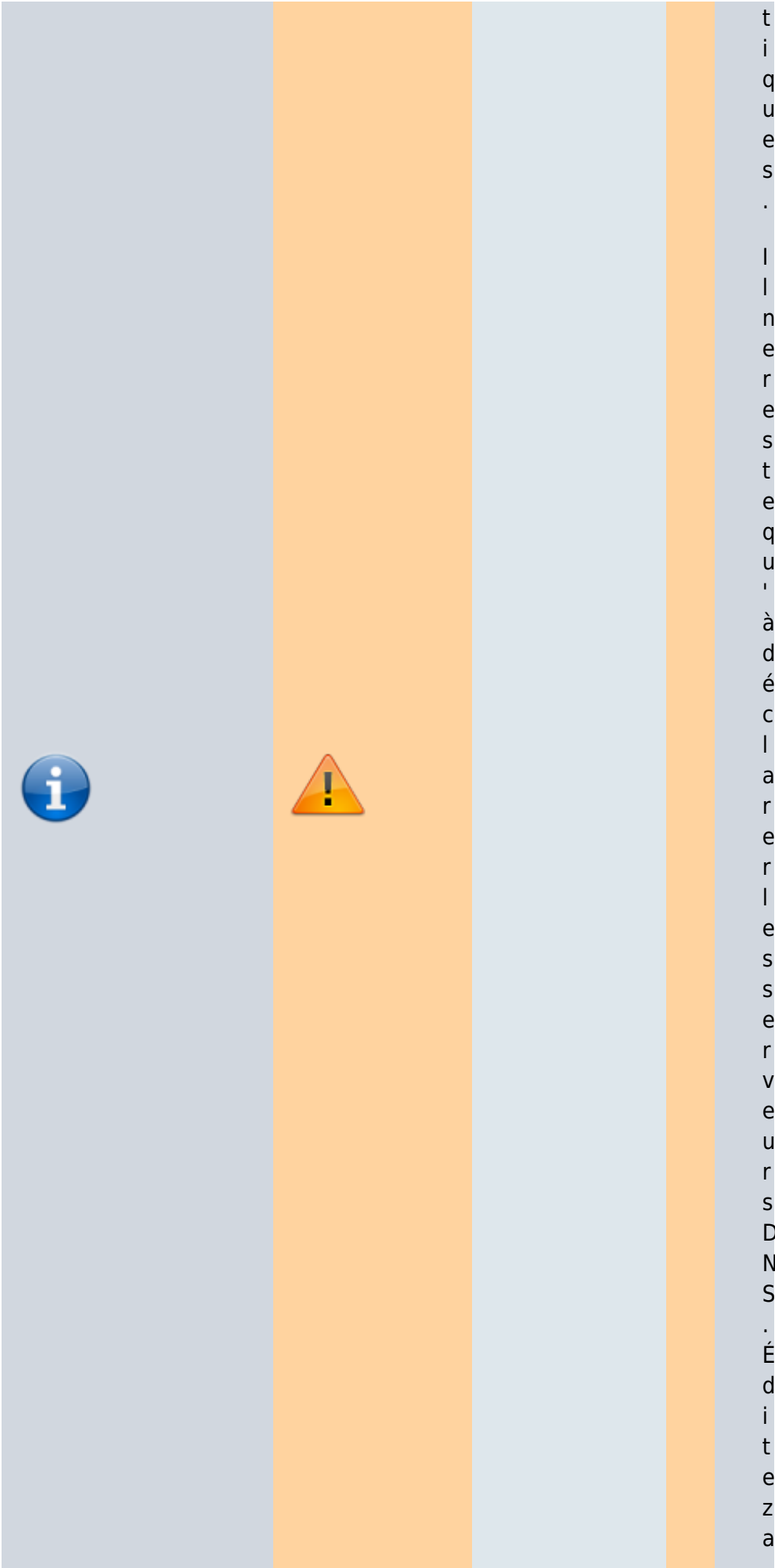
a  
r  
r  
e  
r  
l  
e  
s  
e  
r  
v  
i  
c  
e  
e  
n  
t  
a  
p  
a  
n  
t  
l  
a  
c  
o  
m  
m  
a  
n  
d  
e  
:  
\$  
s  
u  
d  
o  
s  
e  
r  
v  
i  
c  
e  
d  
n  
s  
m  
a

S  
q  
r  
e  
s  
t  
a  
r  
t

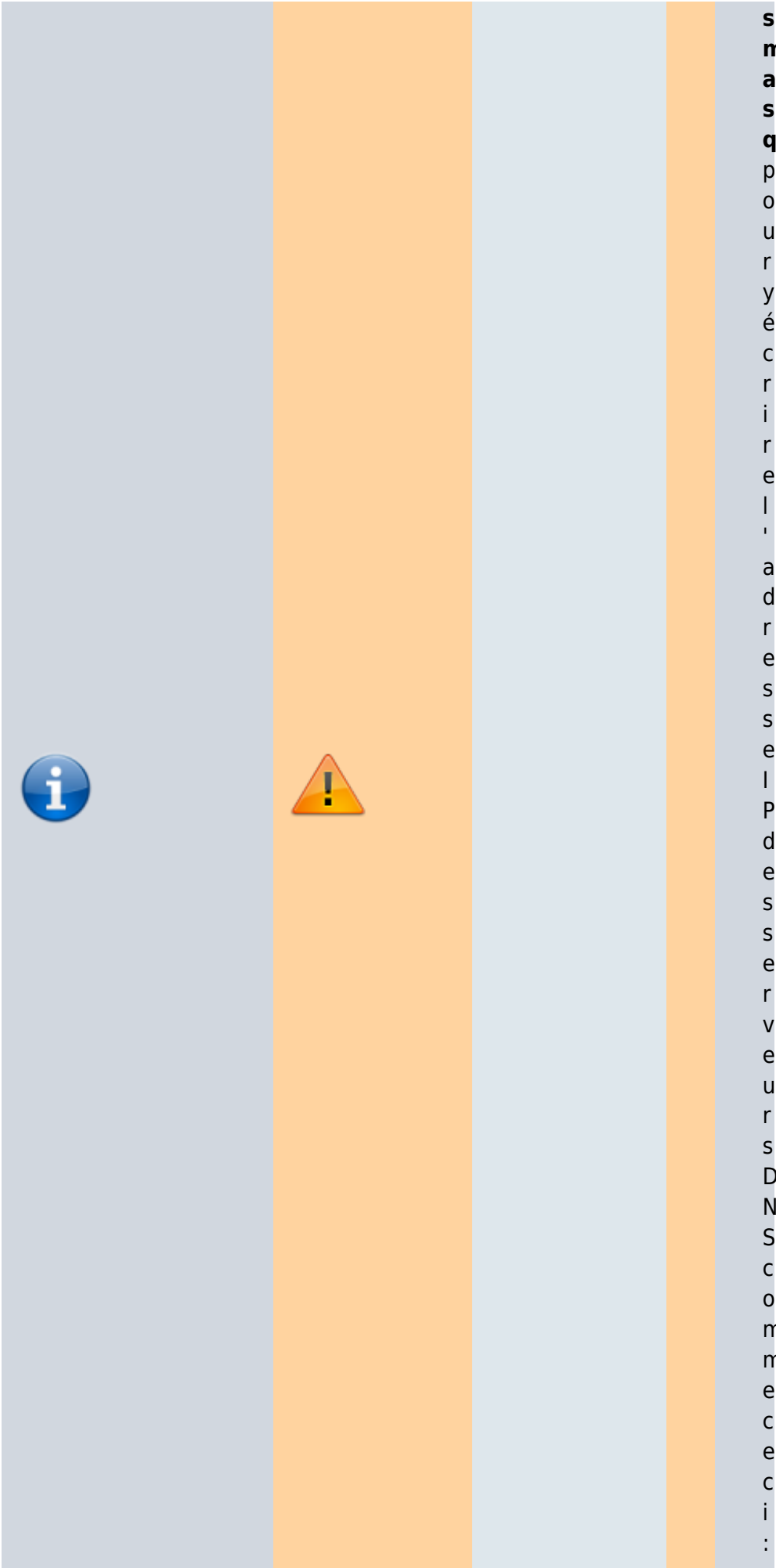
D  
é  
s  
o  
r  
m  
a  
i  
s  
,  
l  
e  
s  
d  
o  
m  
a  
i  
n  
e  
s  
f  
r  
a  
m  
b  
o  
i  
s  
e  
.l  
a  
n  
,  
e  
t  
c  
a  
i



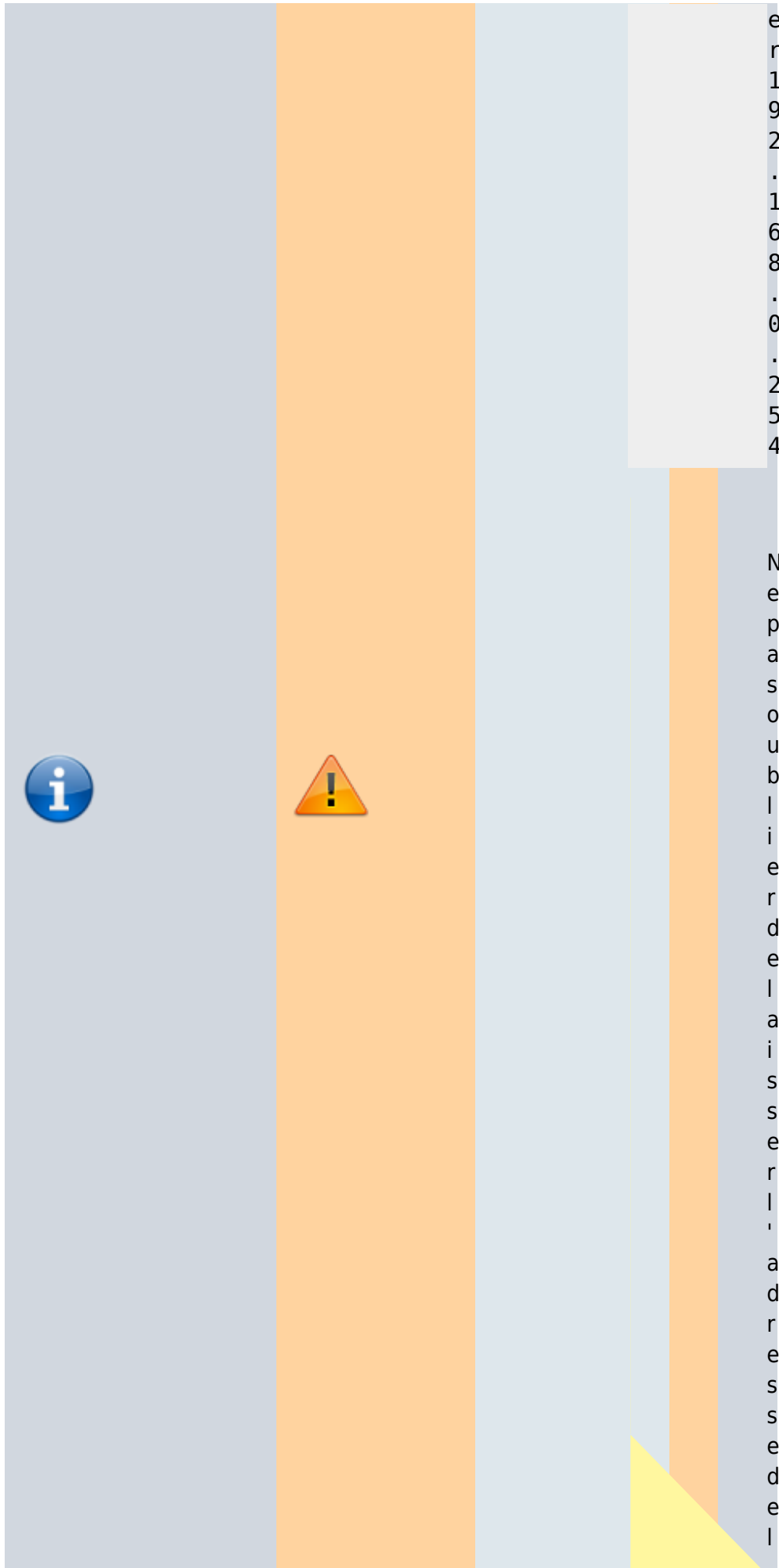
entetepermettentl'utilisationsautomatesoudomainesautomat



v  
e  
c  
l  
e  
s  
d  
r  
o  
i  
t  
s  
d  
,  
a  
d  
m  
i  
n  
i  
s  
t  
r  
a  
t  
i  
o  
n  
l  
e  
f  
i  
c  
h  
i  
e  
r  
/  
e  
t  
c  
/  
r  
e  
s  
o  
l  
v  
.  
d  
n

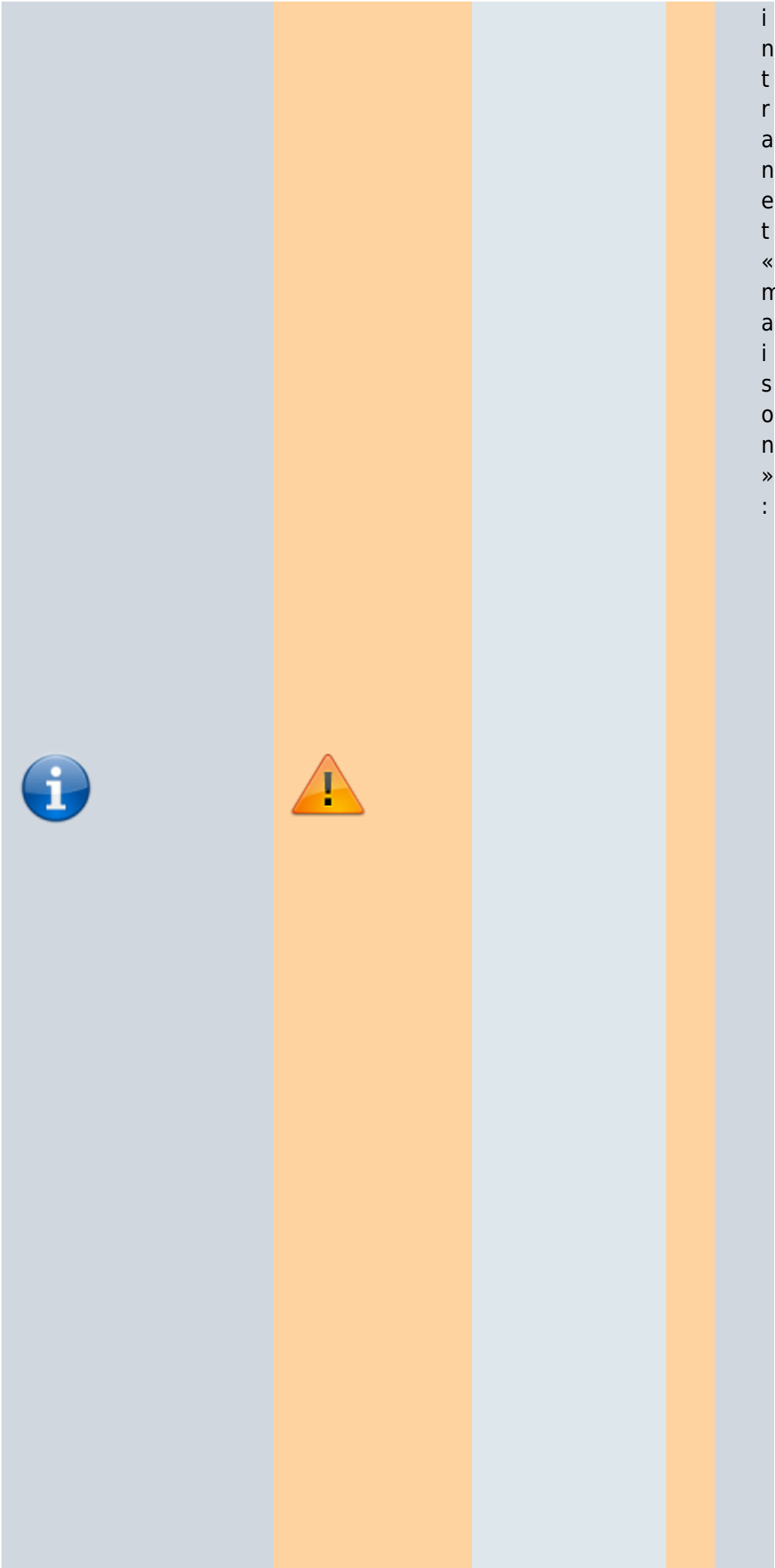


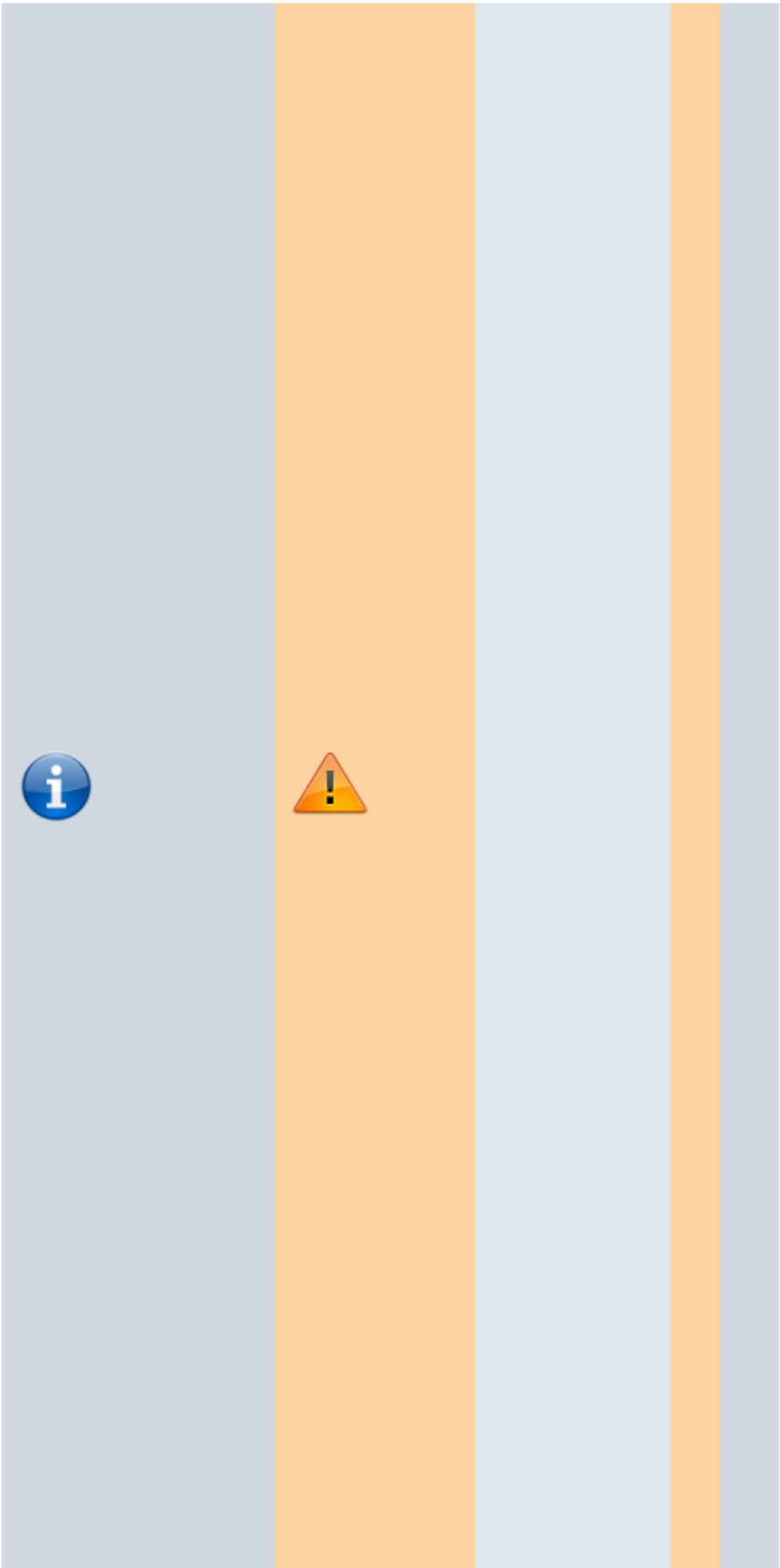
The image shows a vertical bar with four segments of different colors: light blue, orange, light blue, and orange. The orange segments contain an information icon (a blue circle with a white 'i') and a warning icon (a yellow triangle with a black exclamation mark). To the right of the bar, the text 'n a m e s e r v e r 1 9 2 . 1 6 8 . 0 . 1 0 0 n a m e s e r v' is written vertically in a light blue font.



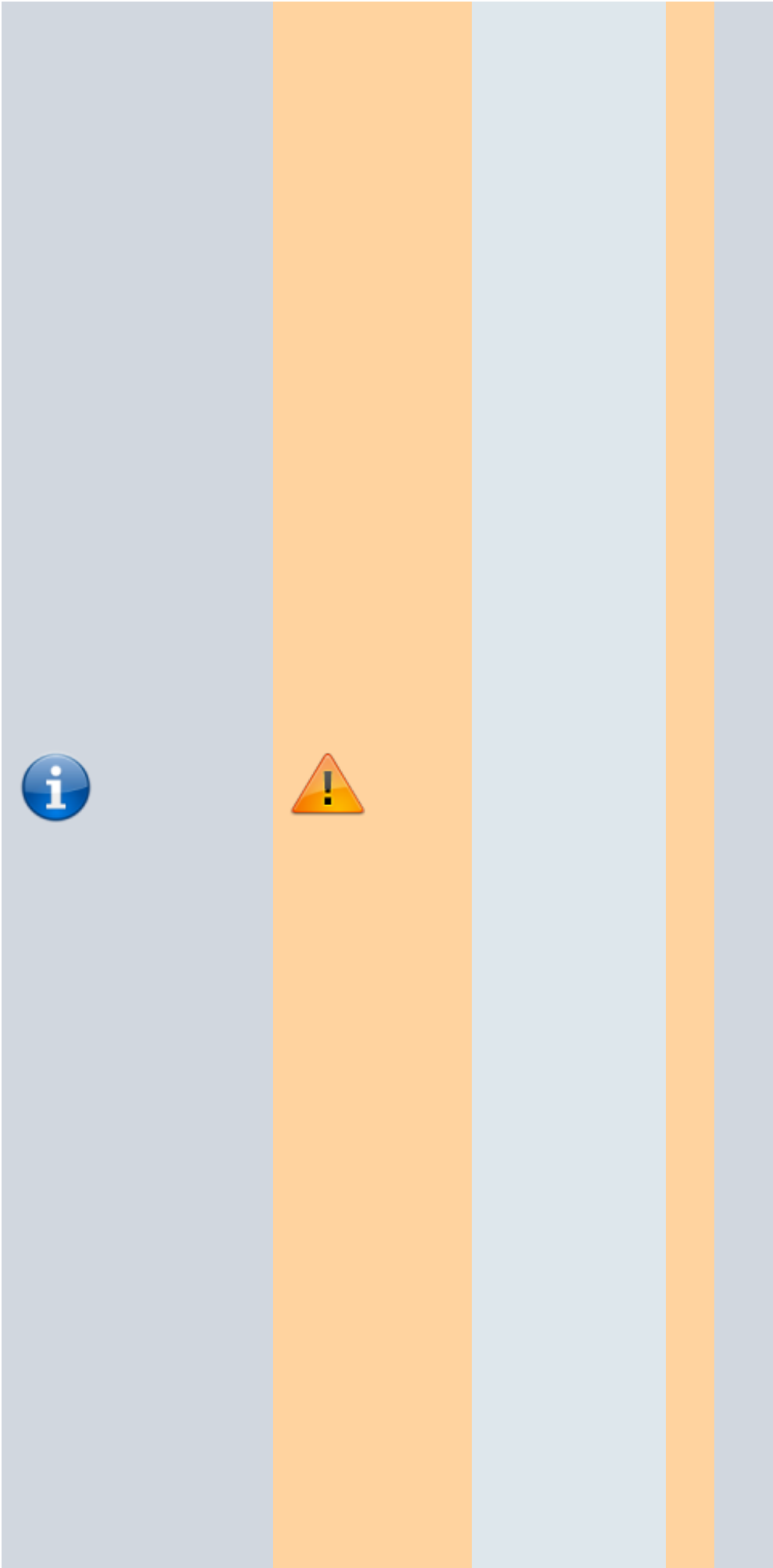
e  
r  
1  
9  
2  
.  
1  
6  
8  
.  
0  
.  
2  
5  
4  
  
N  
e  
p  
a  
s  
o  
u  
b  
l  
i  
e  
r  
d  
e  
l  
a  
i  
s  
s  
e  
r  
l  
.  
a  
d  
r  
e  
s  
s  
e  
d  
e  
l

a  
b  
o  
x  
(  
i  
c  
i  
,  
1  
9  
2  
.  
1  
6  
8  
.  
0  
.  
2  
5  
4  
)  
**U  
n  
e  
x  
e  
m  
p  
l  
e**  
C  
r  
é  
e  
r  
u  
n  
p  
e  
t  
i  
t

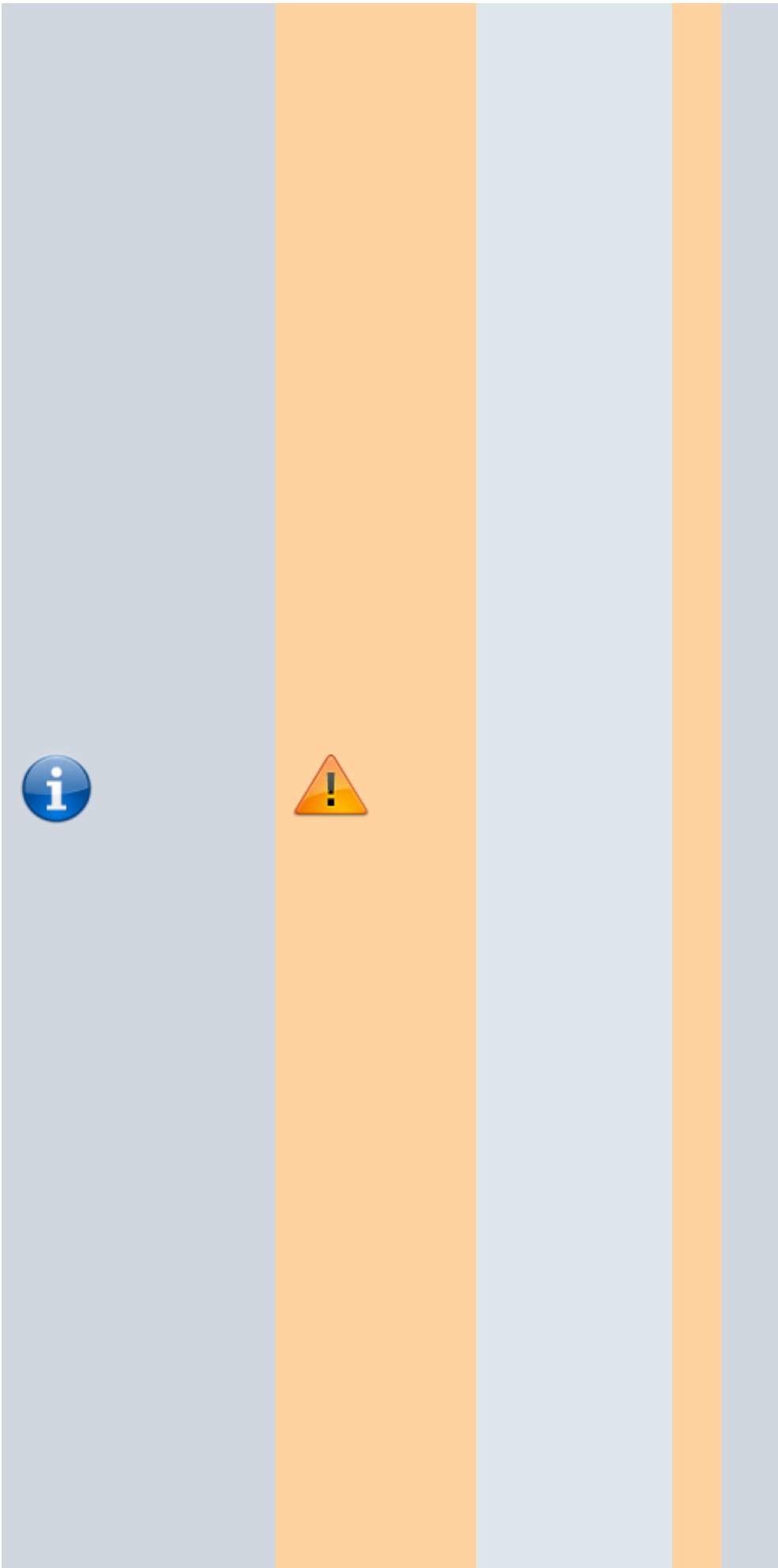




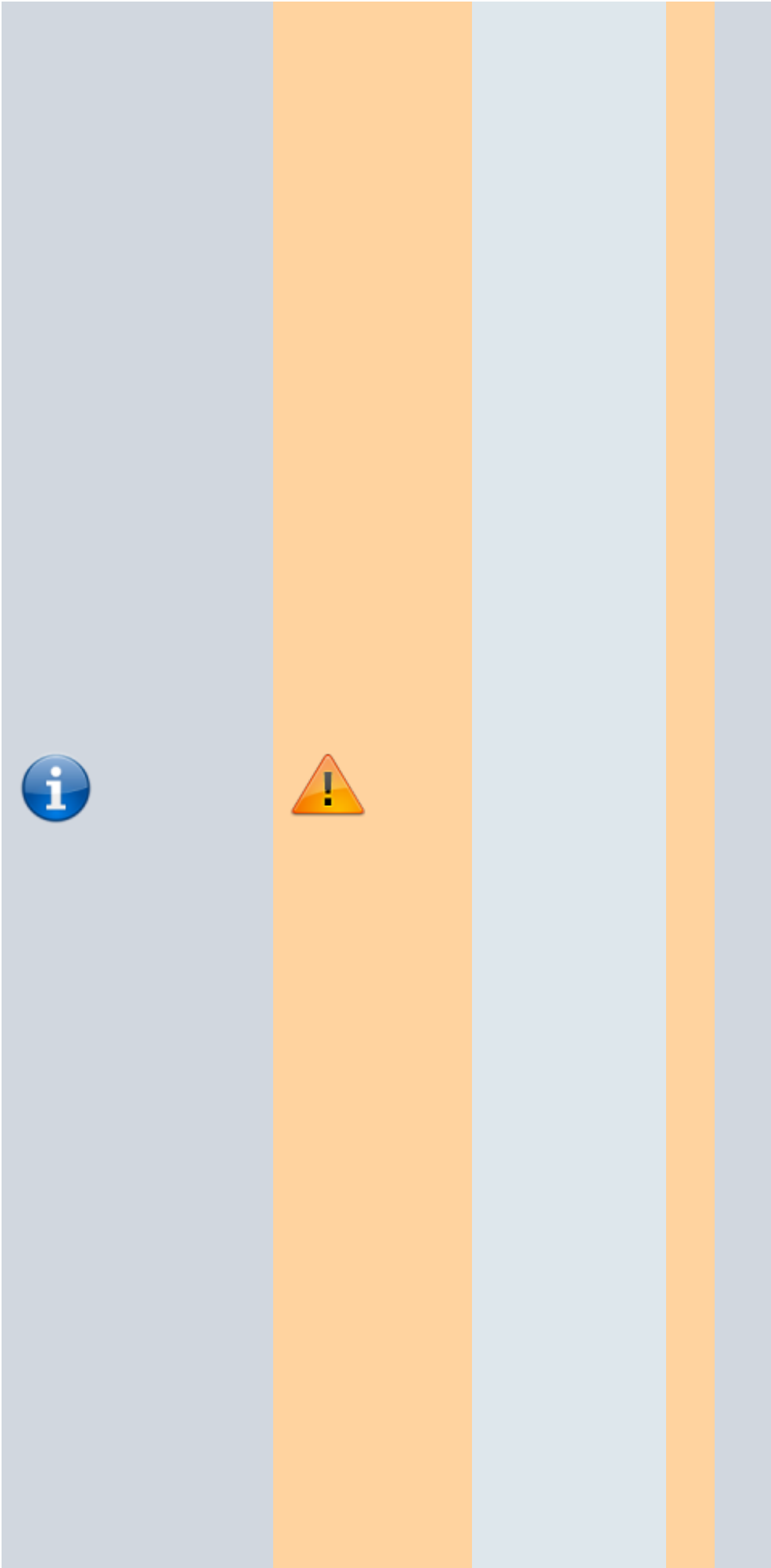
i  
o  
n  
n  
e  
l  
q  
u  
e  
s  
u  
r  
l  
e  
L  
A  
N  
:  
m  
o  
n  
d  
o  
m  
a  
i  
n  
e  
.  
l  
a  
n  
•  
e  
n  
I  
P  
p  
r  
i  
v  
é  
e  
s  
d  
e  
c  
l  
a  
s



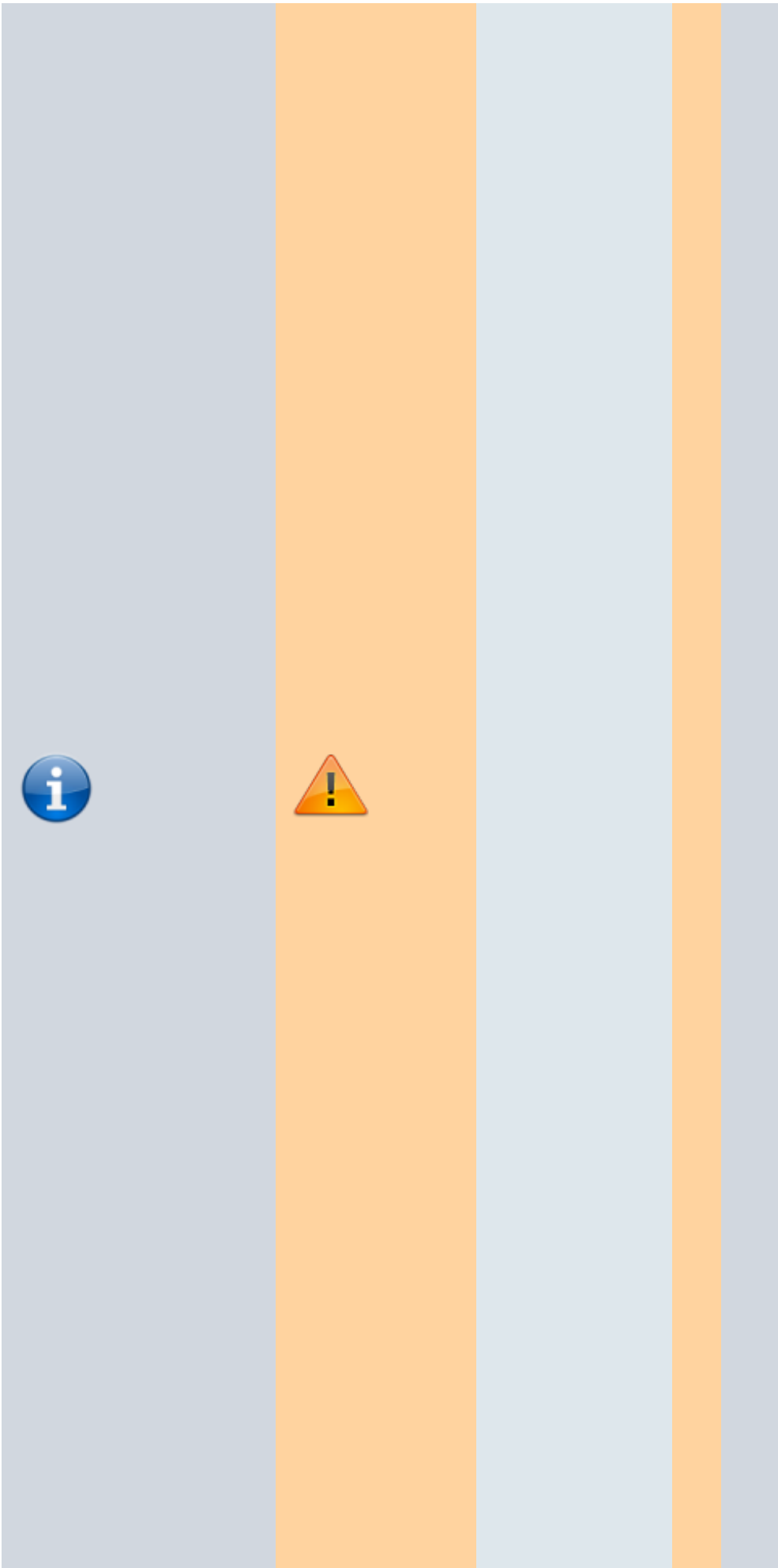
s  
e  
C  
• s  
e  
r  
v  
e  
u  
r  
D  
N  
S  
:  
◦ n  
o  
m  
:  
n  
s  
.  
m  
o  
n  
d  
o  
m  
a  
i  
n  
e  
.  
l  
a  
n  
◦ a  
d  
r  
e  
s  
s  
e  
l  
p  
:  
1  
9



2  
.  
1  
6  
8  
.  
0  
.  
1  
0  
0  
.  
4.  
A  
d  
r  
e  
s  
s  
e  
s  
d  
u  
D  
N  
S  
d  
u  
f  
o  
u  
r  
n  
i  
s  
s  
e  
u  
r  
d  
'  
a  
c  
c  
è  
s  
:  
2  
1  
2  
.



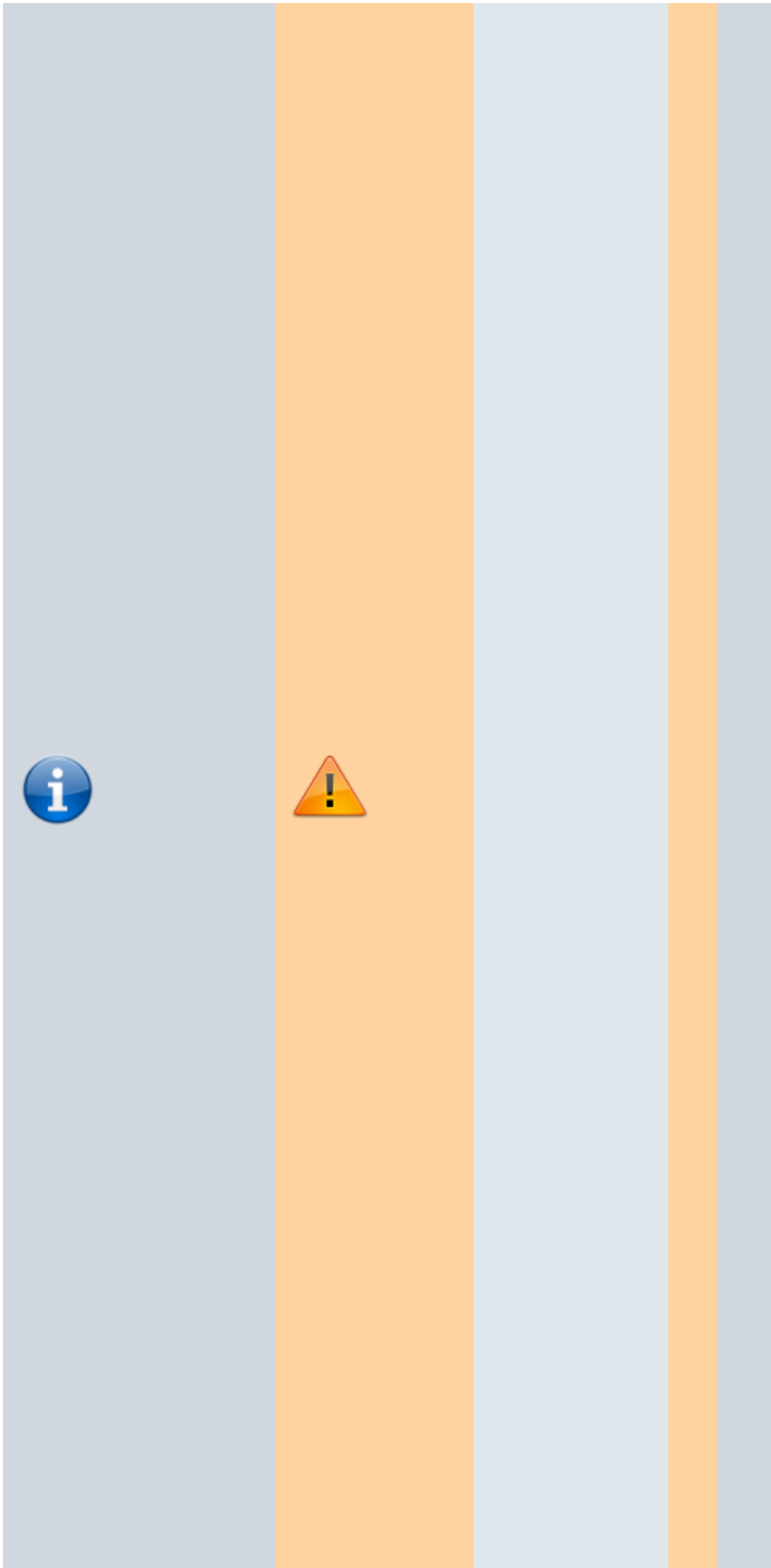
2  
7  
.  
3  
2  
.  
5  
2  
1  
2  
.  
2  
7  
.  
3  
2  
.  
5  
5.  
m  
a  
c  
h  
i  
n  
e  
s  
:  
  
o  
m  
a  
c  
h  
i  
n  
e  
1  
:  
  
.  
n  
o  
m  
:  
**m  
a  
c  
h  
i  
n  
e  
1**



. m  
o  
n  
d  
o  
m  
a  
i  
n  
e  
.  
l  
a  
n  
.  
a  
d  
r  
e  
s  
s  
e  
l  
P  
:  
1  
9  
2  
.  
1  
6  
8  
.  
0  
.  
1

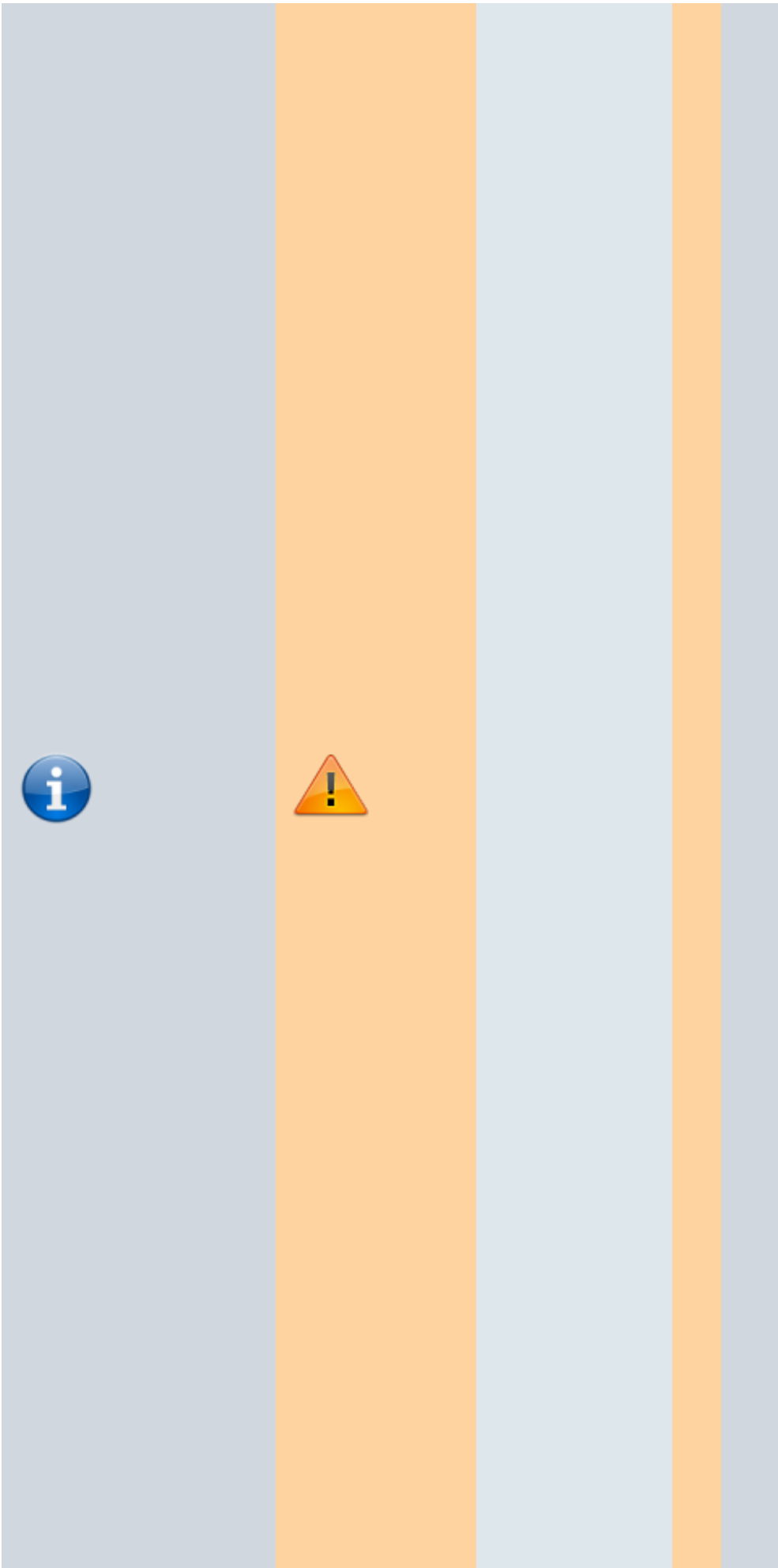
2.  
m  
a  
c  
h  
i  
n  
e  
2  
:

.  
n  
o



m : m a c h i n e 2 . m o n d o m a i n e . l a n a d r e s s e I P : 1 9 2 . 1 6 8 . 0 . 2

3. m a



c  
h  
i  
n  
e  
X  
:

·  
n  
o  
m  
:  
m  
a  
c  
h  
i  
n  
e  
X  
·  
m  
o  
n  
d  
o  
m  
a  
i  
n  
e  
·  
l  
a  
n  
·  
·  
a  
d  
r  
e  
s  
s  
e  
I  
P  
:  
1  
9  
2  
·

C  
a  
r  
t  
e  
d  
u  
r  
é  
s  
e  
a  
u  
:  
:

Adresse IP	nom complet de l'hôte	Nom de domaine	Nom d'hôte





Adresse IP	nom complet de l'hôte	Nom de domaine	Nom
192.168.0.100	ns.monddomaine.lan	monddomaine.lan	serveurDNS



Adresse IP	Nom complet de l'hôte	Nom de domaine	Nom
192.168.0.1	machine1.monddomaine.lan	monddomaine.lan	machine1

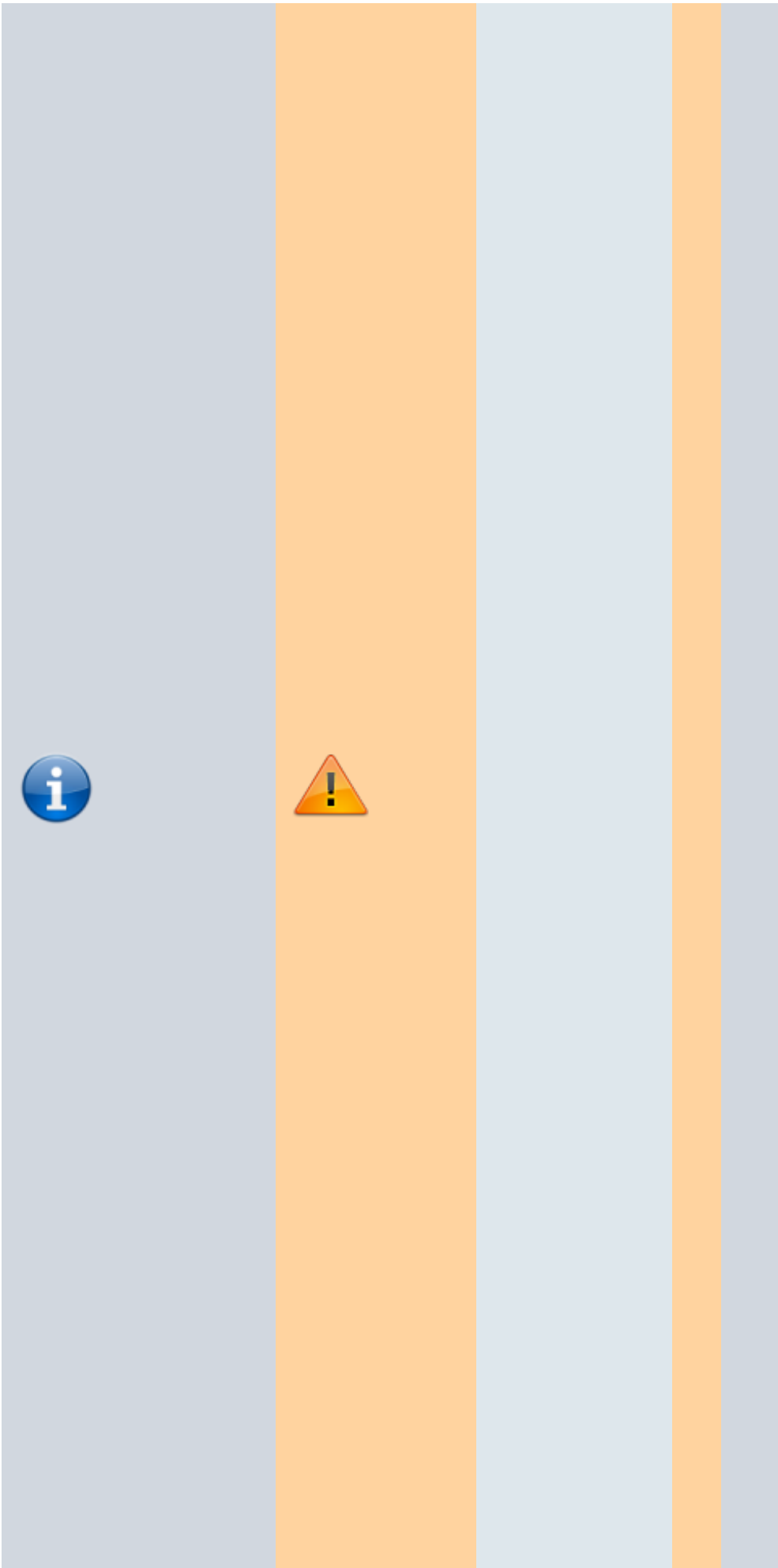






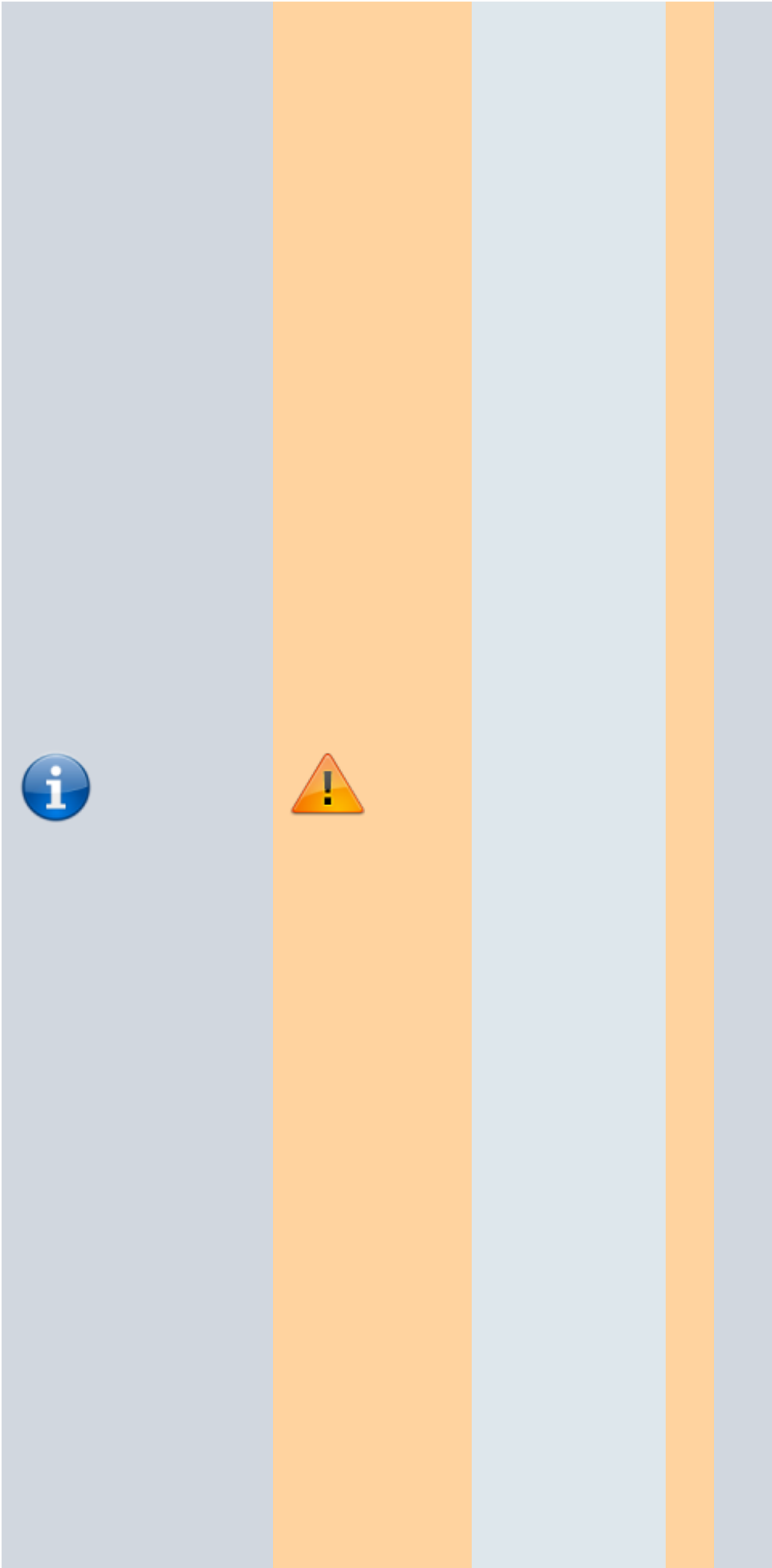
Adresse IP	Nom complet de l'hôte	Nom de domaine	Nom d'hôte
192.168.0.X	machineX.monddomaine.lan	monddomaine.lan	machineX

C  
o  
n  
f  
i  
g  
u  
r  
a  
t

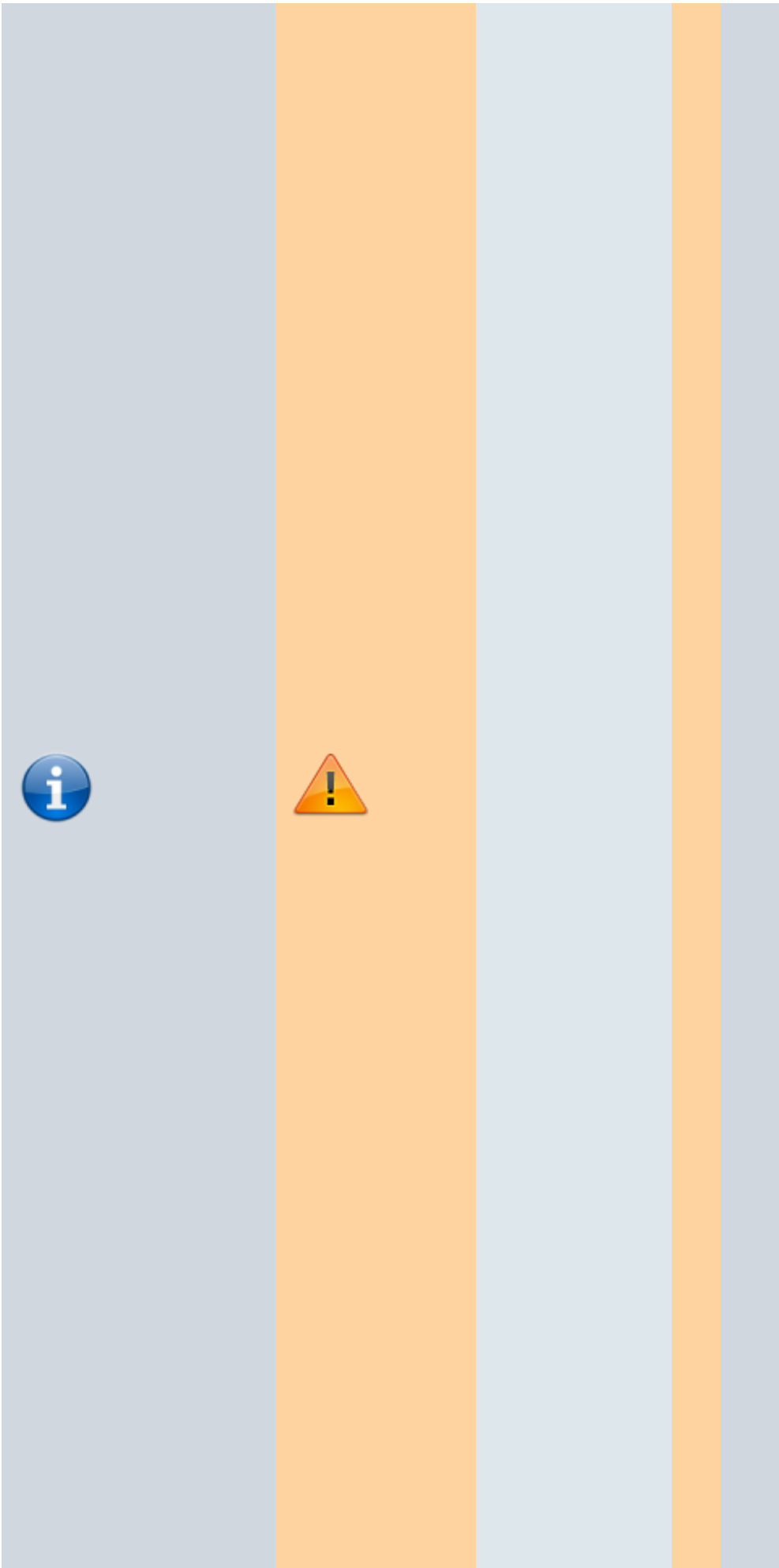


**i  
o  
n  
d  
e  
s  
a  
d  
r  
e  
s  
s  
e  
s**

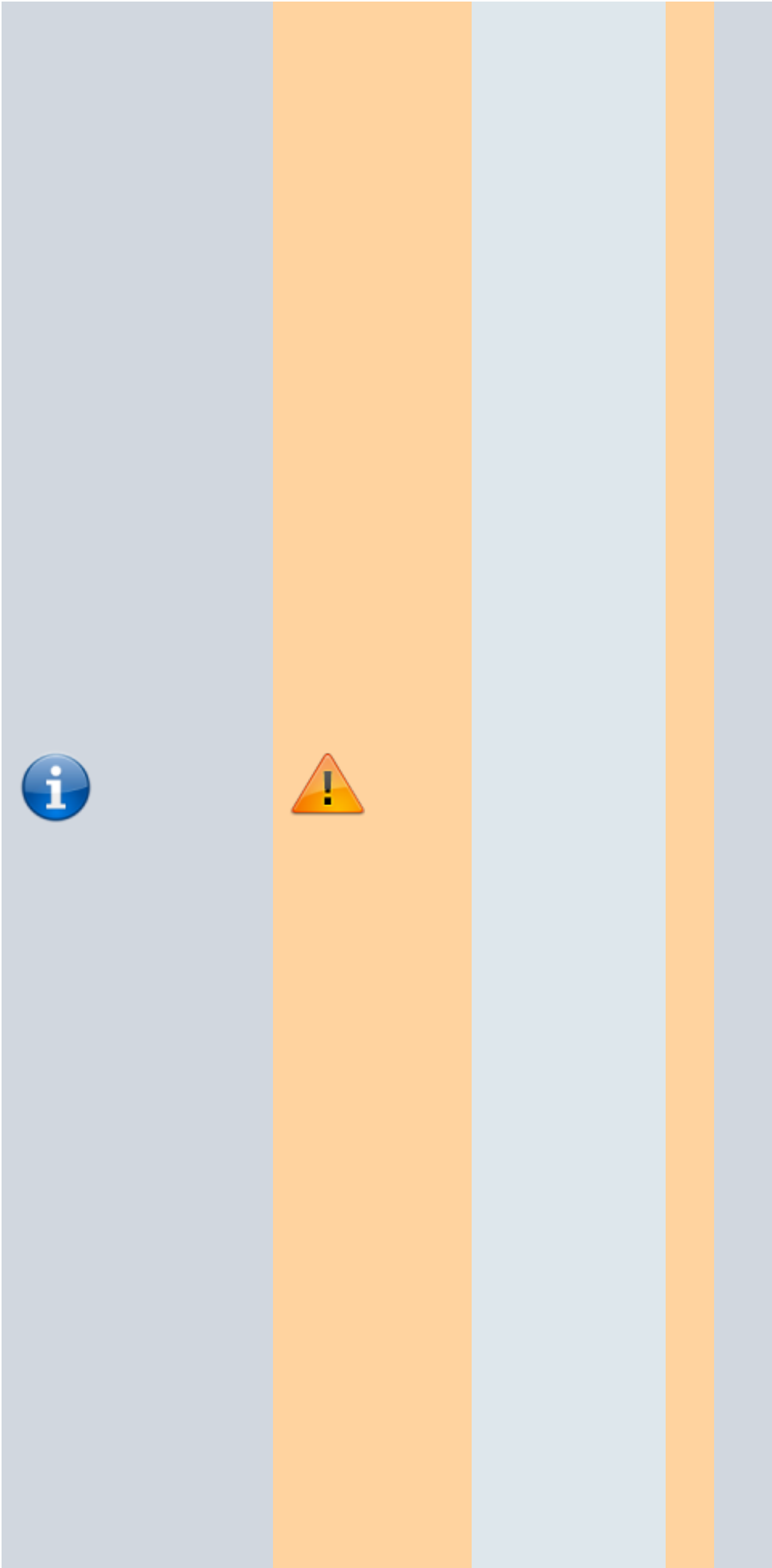
D  
é  
c  
l  
a  
r  
e  
r  
l  
e  
s  
e  
r  
v  
e  
u  
r  
D  
N  
S  
d  
'  
a  
d  
r  
e  
s  
s  
e  
1  
9  
2  
.



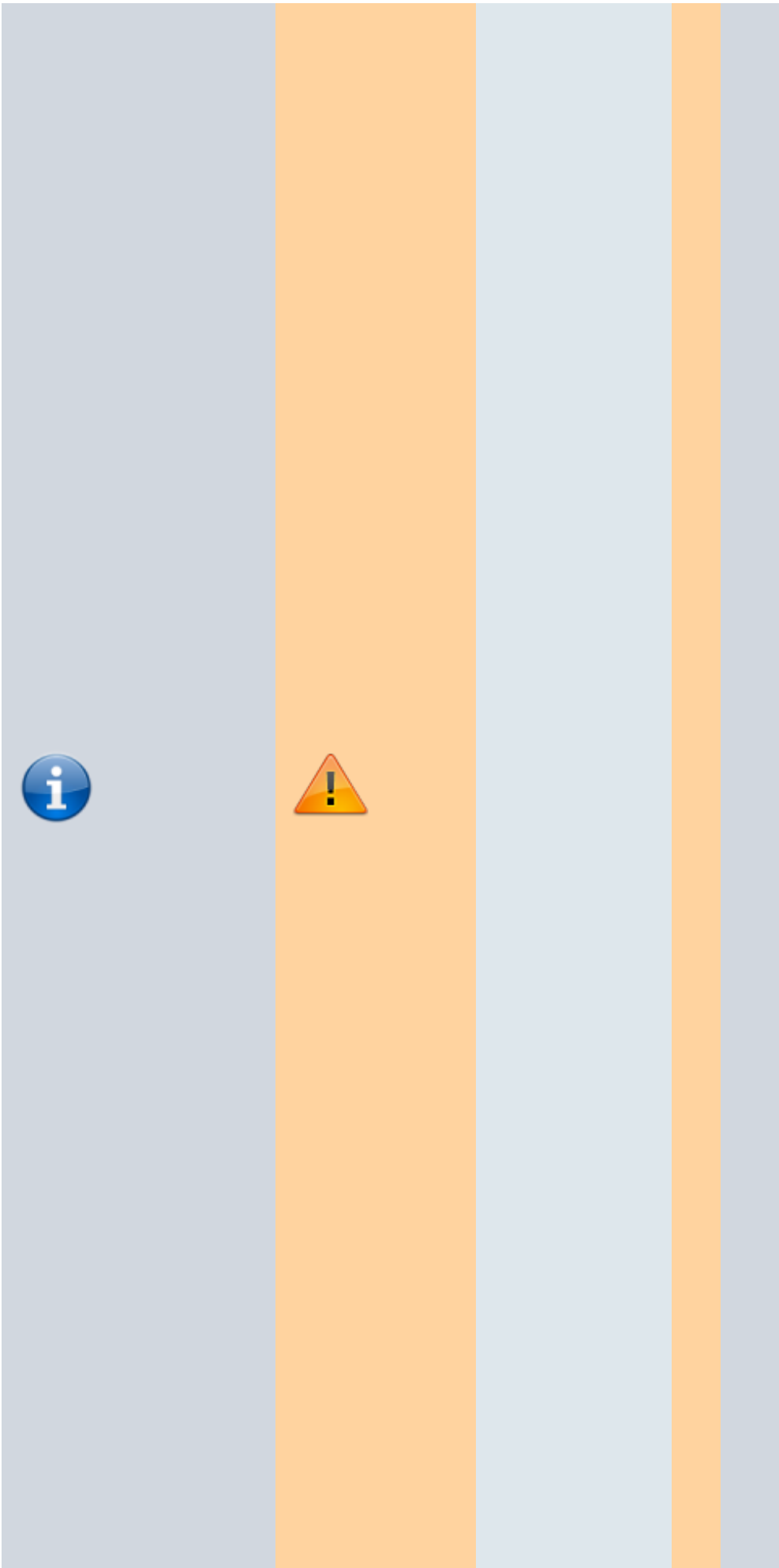
1  
6  
8  
.0  
.1  
e  
n  
p  
r  
e  
m  
i  
e  
r  
d  
a  
n  
s  
l  
e  
f  
i  
c  
h  
i  
e  
r  
/  
e  
t  
c  
/  
r  
e  
s  
o  
l  
v  
.c  
o  
n  
f  
e  
n  
m  
e  
t  
t  
a



n  
t  
s  
a  
l  
i  
g  
n  
e  
a  
u  
d  
é  
b  
u  
t  
.  
L  
e  
s  
a  
d  
r  
e  
s  
s  
e  
s  
d  
e  
D  
N  
S  
d  
u  
f  
o  
u  
r  
n  
i  
s  
s  
e  
u  
r  
d  
'  
a  
c



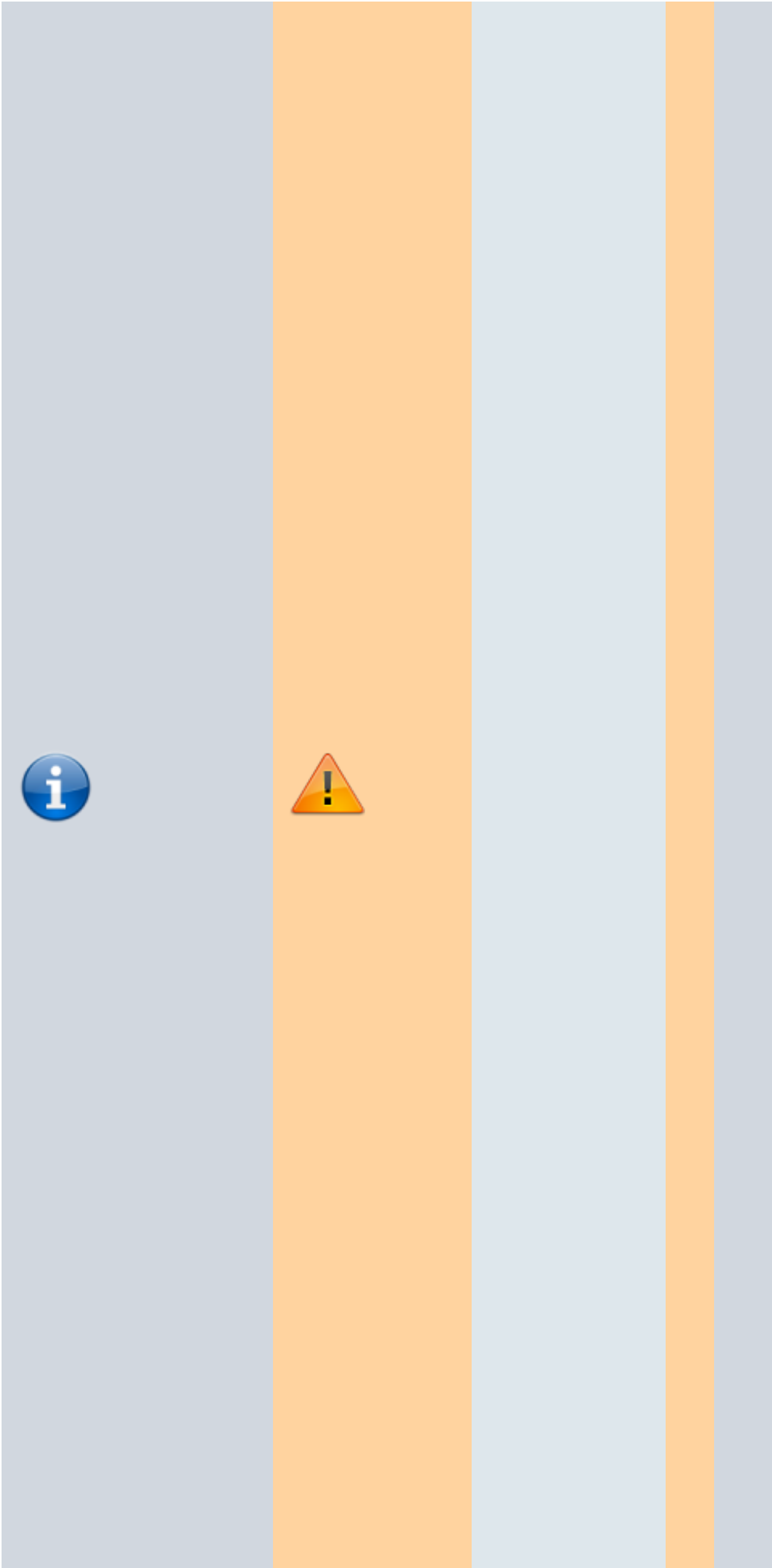
c  
è  
s  
s  
o  
n  
t  
s  
p  
é  
c  
i  
f  
i  
é  
e  
s  
d  
a  
n  
s  
l  
e  
f  
i  
c  
h  
i  
e  
r  
/  
e  
t  
c  
/  
n  
a  
m  
e  
d  
.  
c  
o  
n  
f  
p  
a  
r  
l  
.  
i  
n  
s



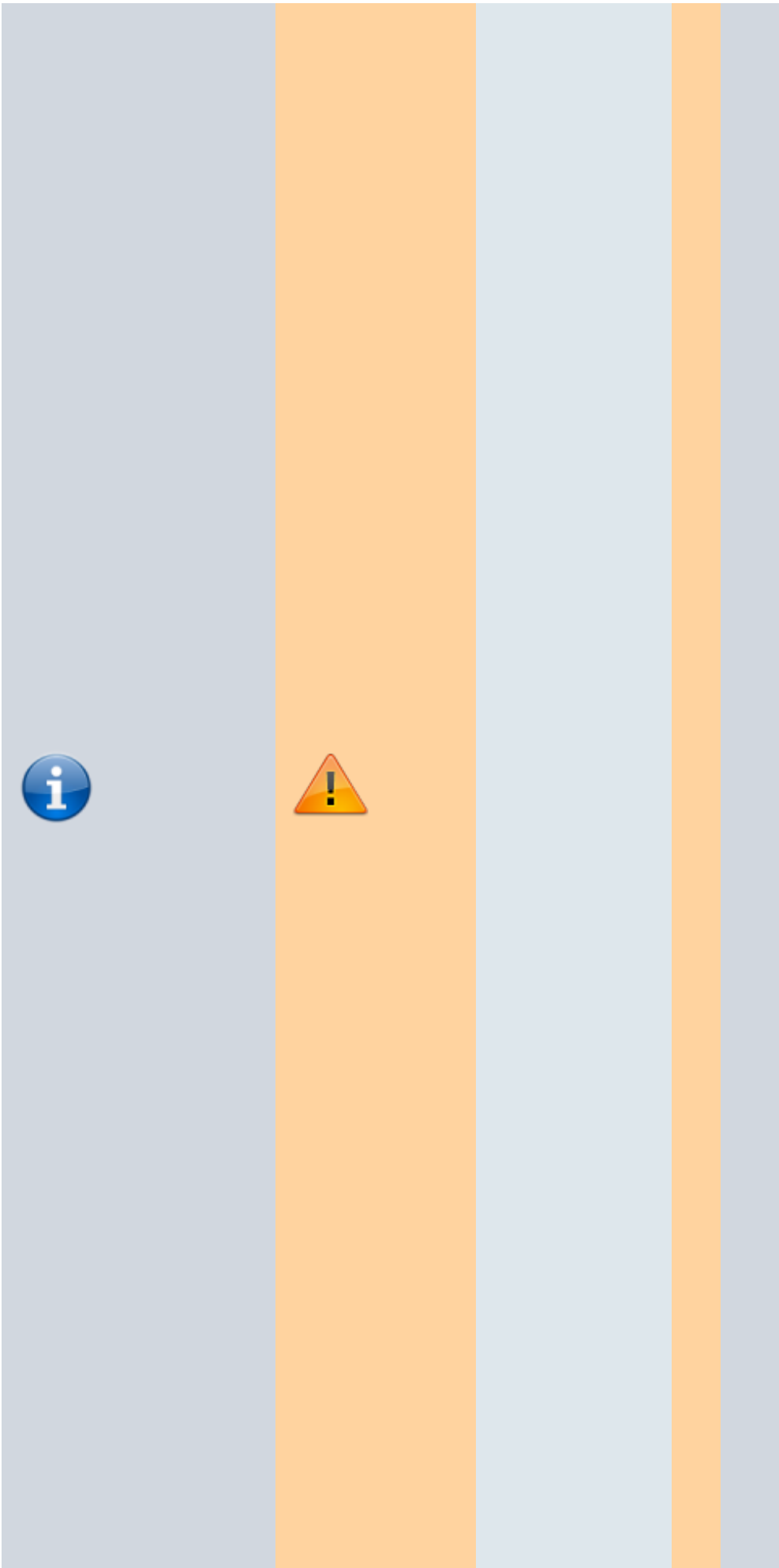
t  
r  
u  
c  
t  
i  
o  
n  
f  
o  
r  
w  
a  
r  
d  
e  
r  
s  
.

**F**  
**i**  
**x**  
**e**  
**r**  
**l**  
**,**  
**a**  
**d**  
**r**  
**e**  
**s**  
**s**  
**e**  
**l**  
**P**  
**d**  
**u**  
**s**  
**e**  
**r**  
**v**  
**e**  
**u**  
**r**

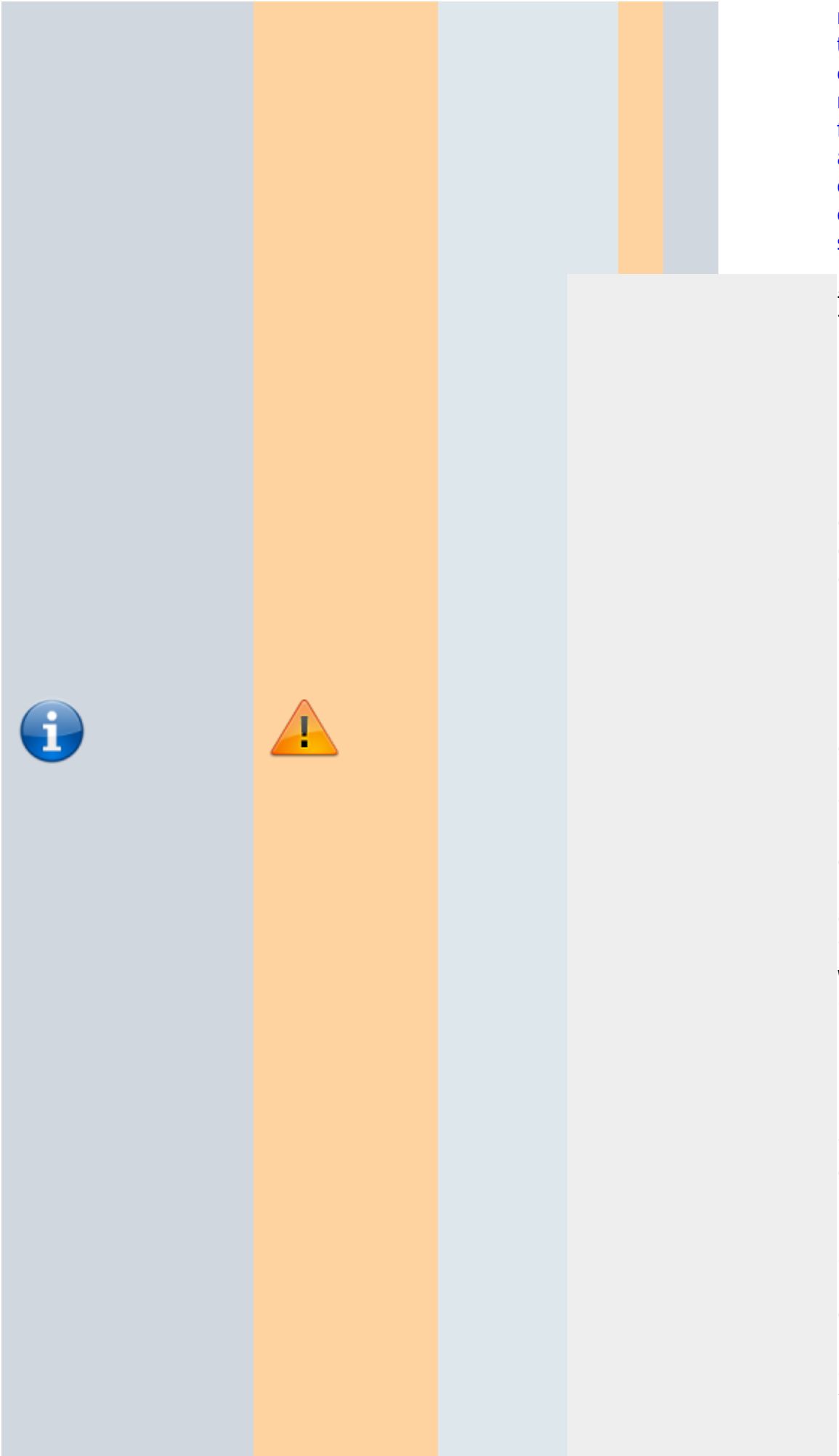
é  
d  
i

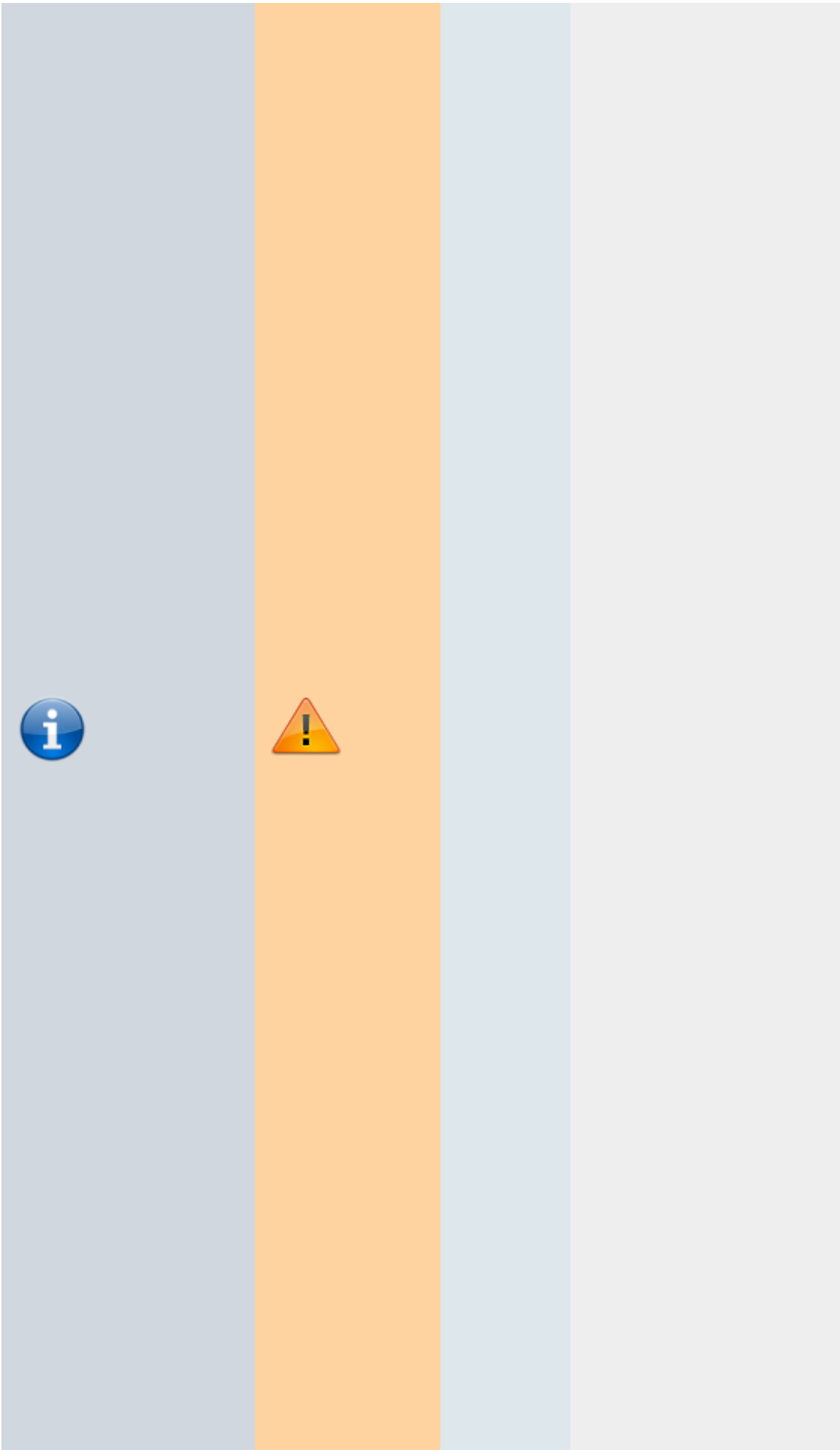


t  
e  
z  
a  
v  
e  
c  
l  
e  
s  
d  
r  
o  
i  
t  
s  
d  
'  
a  
d  
m  
i  
n  
i  
s  
t  
r  
a  
t  
i  
o  
n  
l  
e  
f  
i  
c  
h  
i  
e  
r  
/  
**e  
t  
c**  
/  
**n  
e  
t  
w  
o  
r**

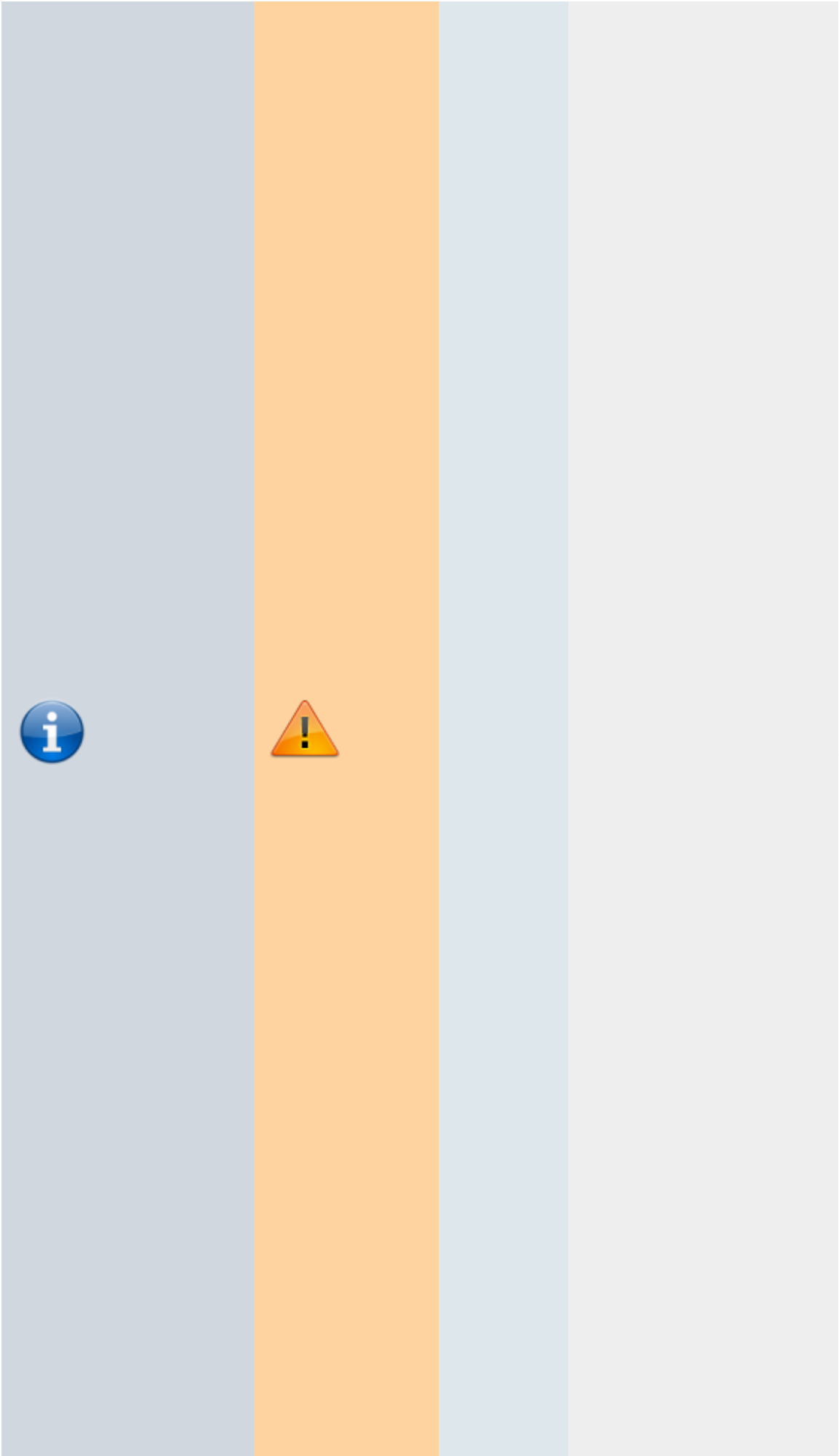


k  
/  
i  
n  
t  
e  
r  
f  
a  
c  
e  
s  
p  
o  
u  
r  
l  
e  
m  
o  
d  
i  
f  
i  
e  
r  
c  
o  
m  
m  
e  
c  
e  
c  
i  
:  
  
/  
e  
t  
c  
/  
n  
e  
t  
w  
o  
r  
k  
/  
i



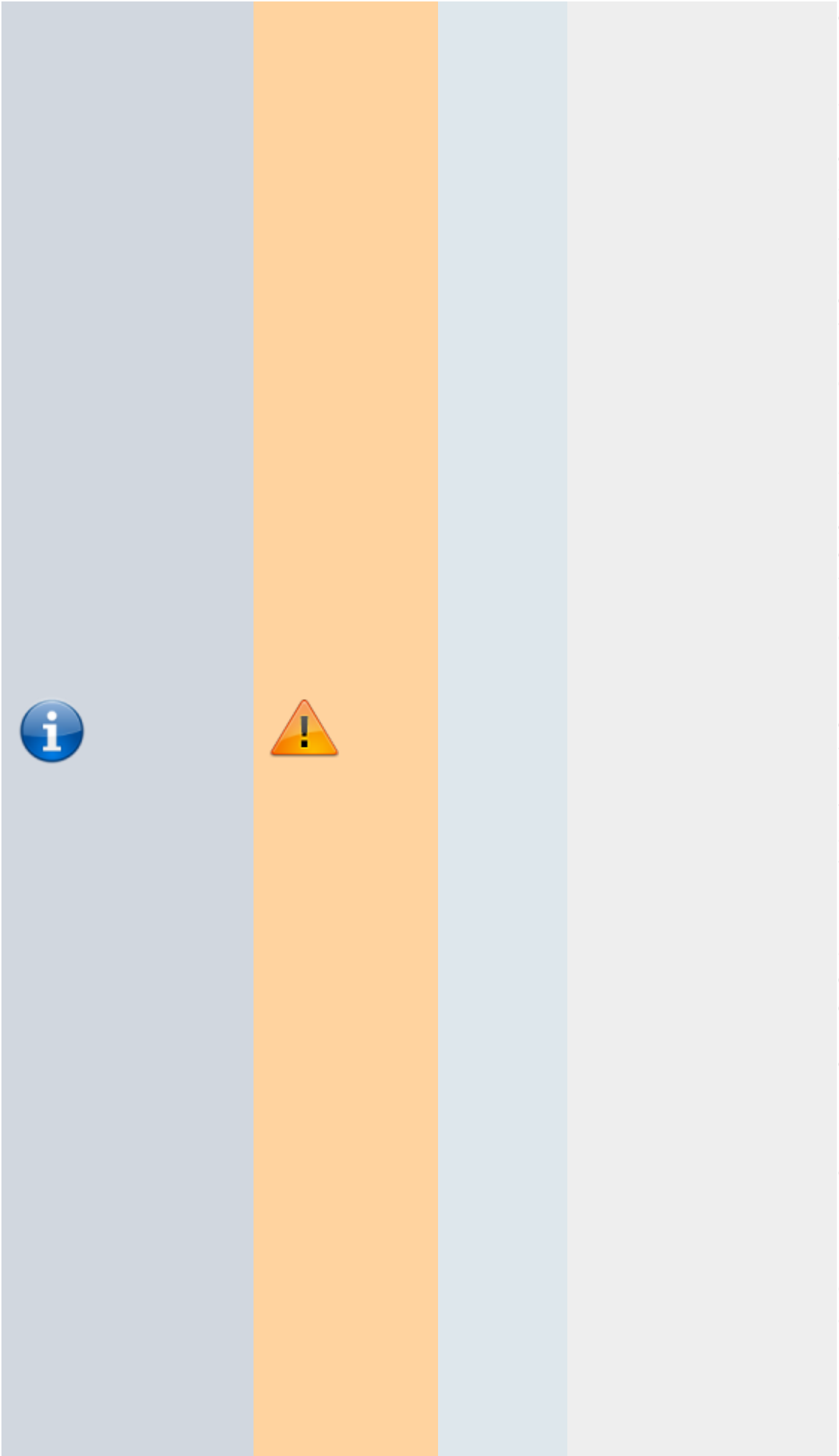


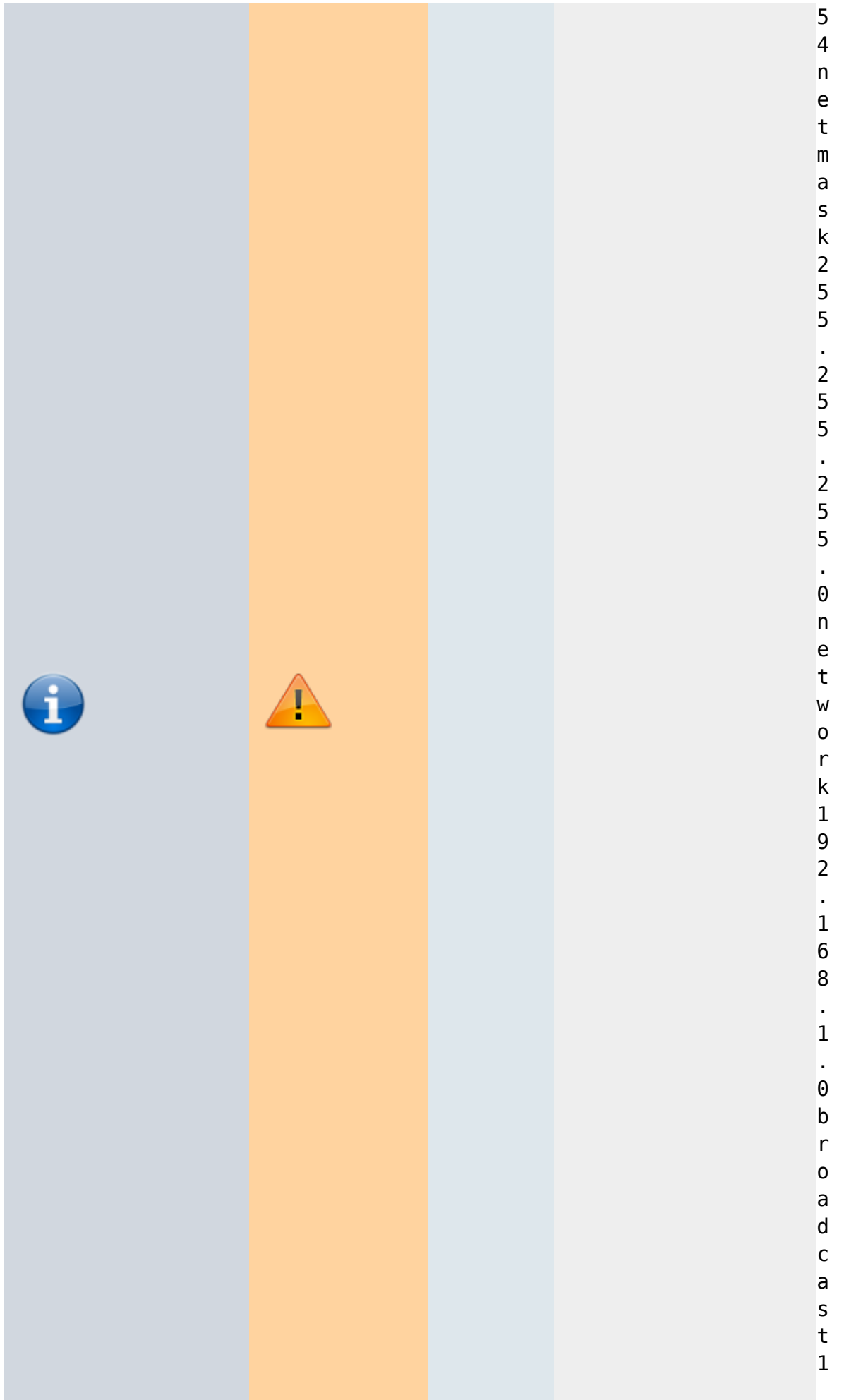
i  
l  
a  
b  
l  
e  
o  
n  
y  
o  
u  
r  
s  
y  
s  
t  
e  
m  
#  
a  
n  
d  
h  
o  
w  
t  
o  
a  
c  
t  
i  
v  
a  
t  
e  
t  
h  
e  
m  
. F  
o  
r  
m  
o  
r  
e  
i  
n  
f



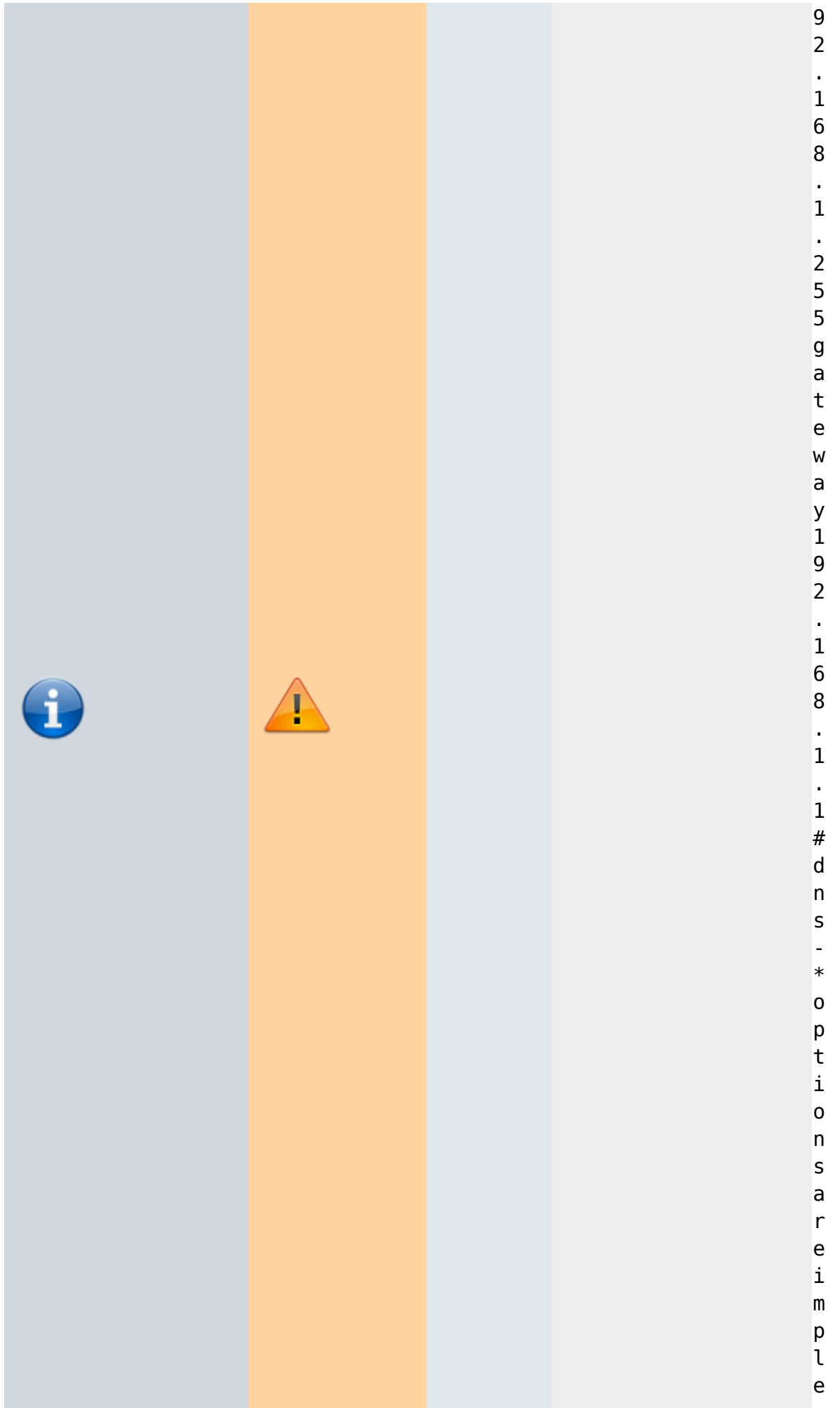
ormation, see interfaces (5) . # The loopback network interface

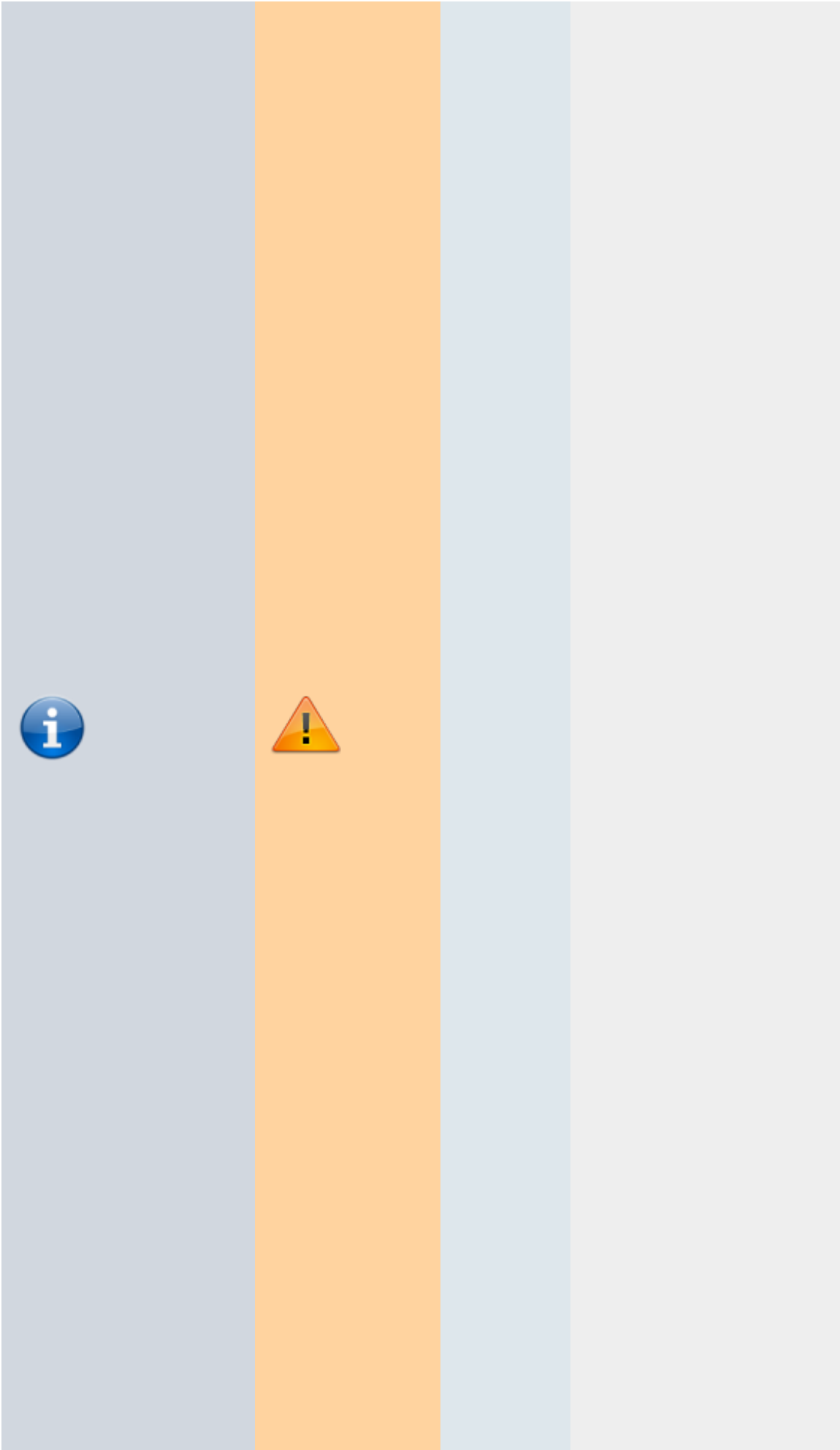
a  
c  
e  
a  
u  
t  
o  
l  
o  
i  
f  
a  
c  
e  
l  
o  
i  
n  
e  
t  
l  
o  
o  
p  
b  
a  
c  
k  
  
#  
T  
h  
e  
p  
r  
i  
m  
a  
r  
y  
n  
e  
t  
w  
o  
r  
k  
i  
n  
t







The graphic consists of four vertical bars of equal height and width, arranged side-by-side. From left to right, the colors are blue, orange, light blue, and grey. The blue bar contains a white lowercase letter 'i' inside a blue circle. The orange bar contains a yellow warning triangle with a black exclamation mark. The light blue and grey bars are empty. On the right edge of the grey bar, the text '54 network 255.255.255.0 network 192.168.1.0 broadcast 1' is written vertically in a small, black, monospaced font.





r  
v  
e  
r  
s  
1  
9  
2  
. 1  
6  
8  
. 1  
. 1

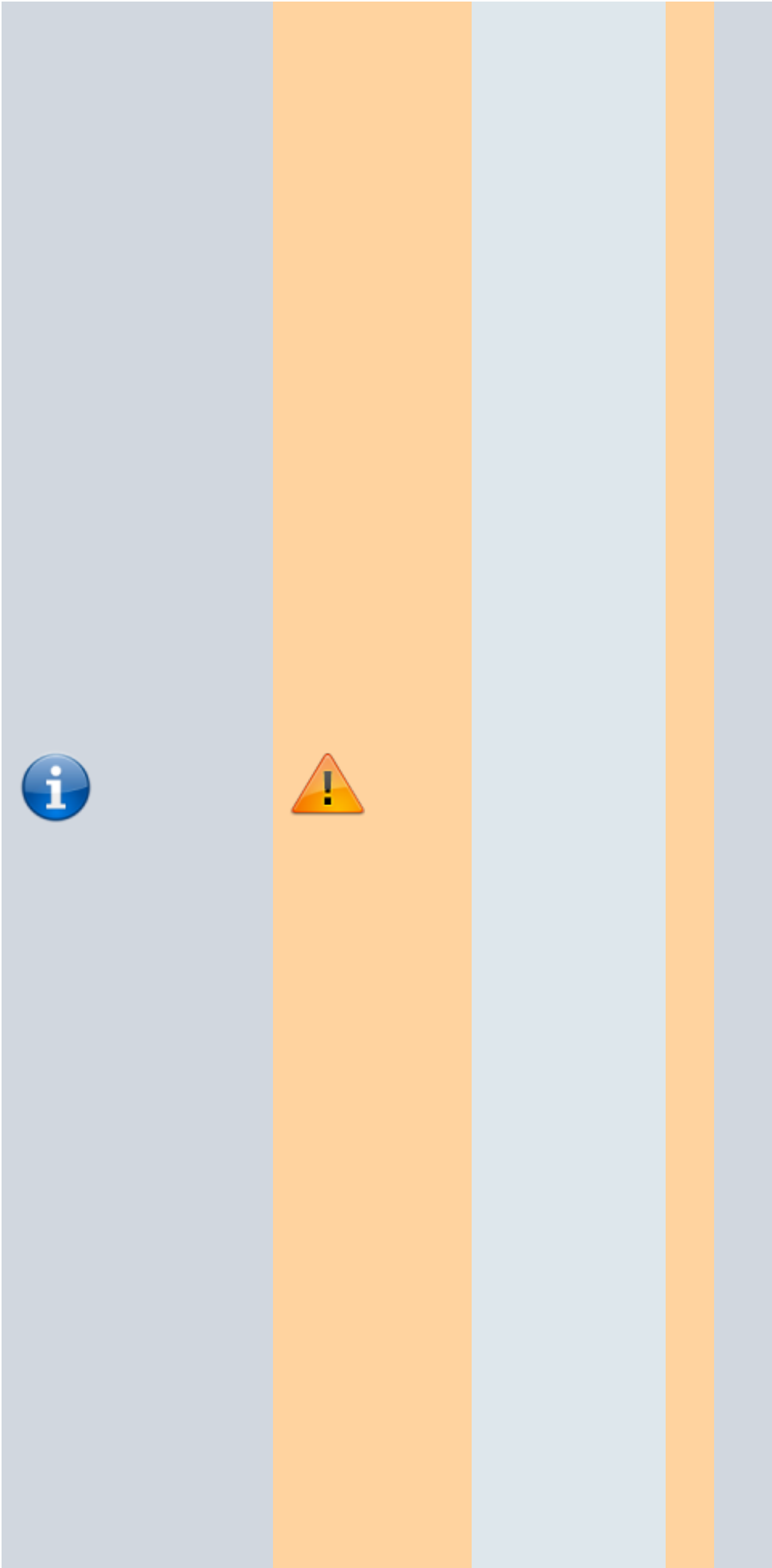
**C  
o  
n  
f  
i  
g  
u  
r  
a  
t  
i  
o  
n  
d  
e  
s  
n  
o  
m  
s  
d  
'  
h  
ô  
t  
e**



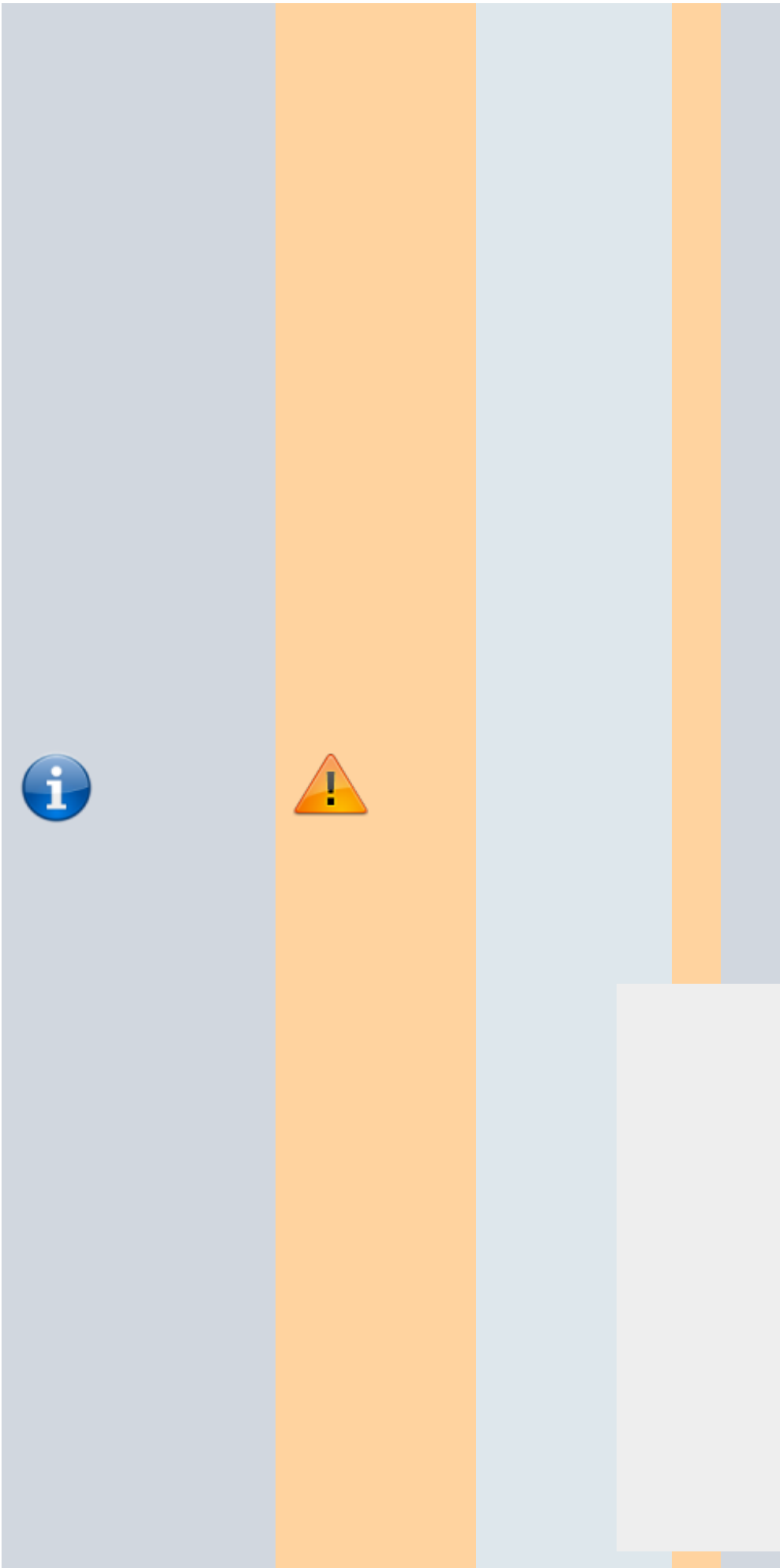
--	--	--	--	--

**F  
i  
c  
h  
i  
e  
r  
/  
e  
t  
c  
/  
h  
o  
s  
t  
n  
a  
m  
e**

é  
d  
i  
t  
e  
z  
a  
v  
e  
c  
l  
e  
s  
d  
r  
o  
i  
t  
s  
d  
'  
a  
d  
m  
i  
n  
i  
s  
t



r  
a  
t  
i  
o  
n  
l  
e  
f  
i  
c  
h  
i  
e  
r  
/  
e  
t  
c  
/  
h  
o  
s  
t  
n  
a  
m  
e  
p  
o  
u  
r  
r  
e  
n  
s  
e  
i  
g  
n  
e  
r  
l  
e  
n  
o  
m  
d  
u  
s  
e  
r

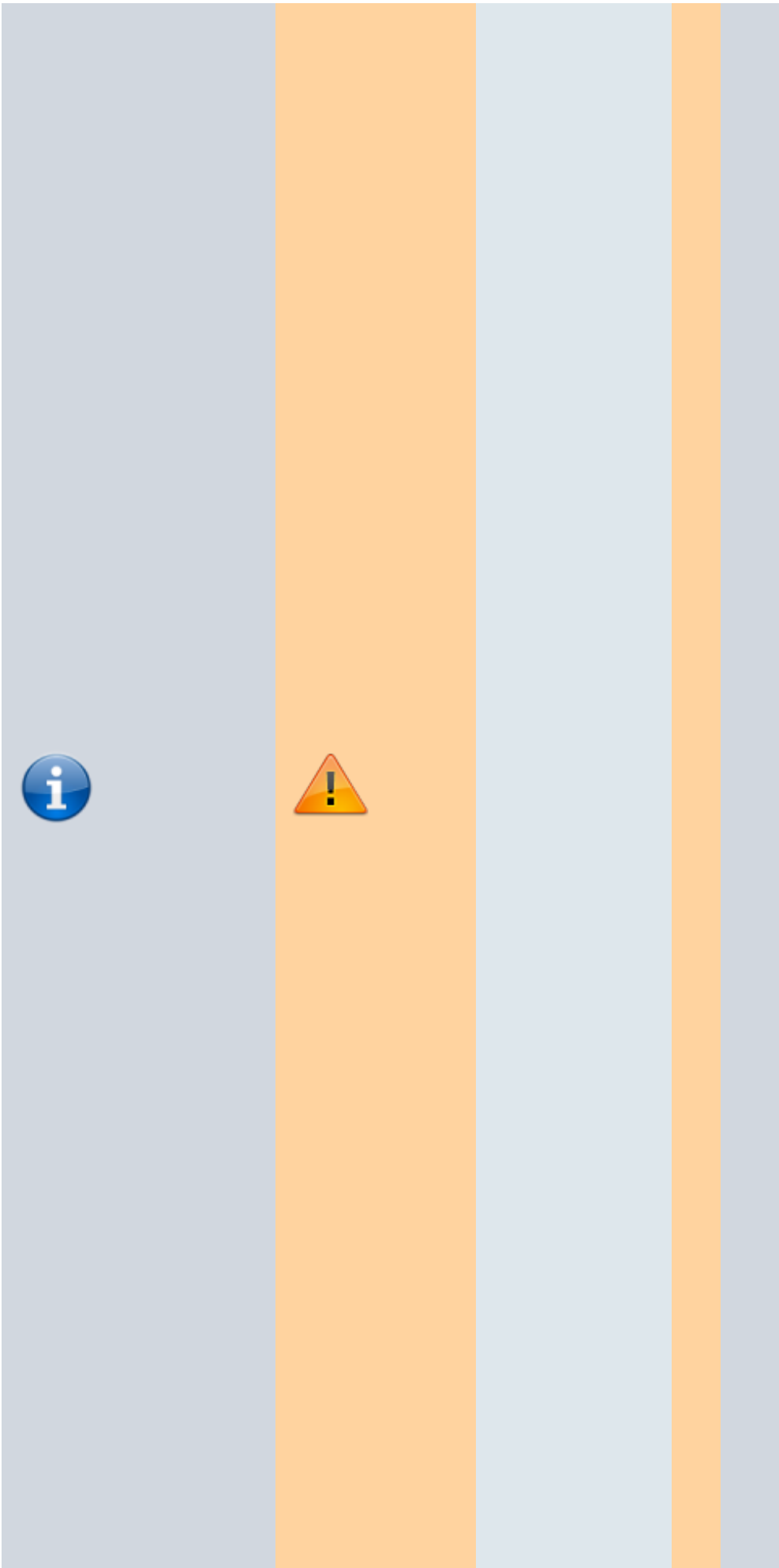


v  
e  
u  
r  
D  
N  
S  
c  
o  
m  
m  
e  
c  
e  
c  
i  
:  
  
/  
e  
t  
c  
/  
h  
o  
s  
t  
n  
a  
m  
e  
  
d  
n  
s  
.  
m  
o  
n  
d  
o  
m  
a  
i  
n  
e  
.  
l  
a  
n

D  
é  
m  
a  
r  
r  
e  
r  
l  
e  
s  
e  
r  
v  
i  
c  
e  
:

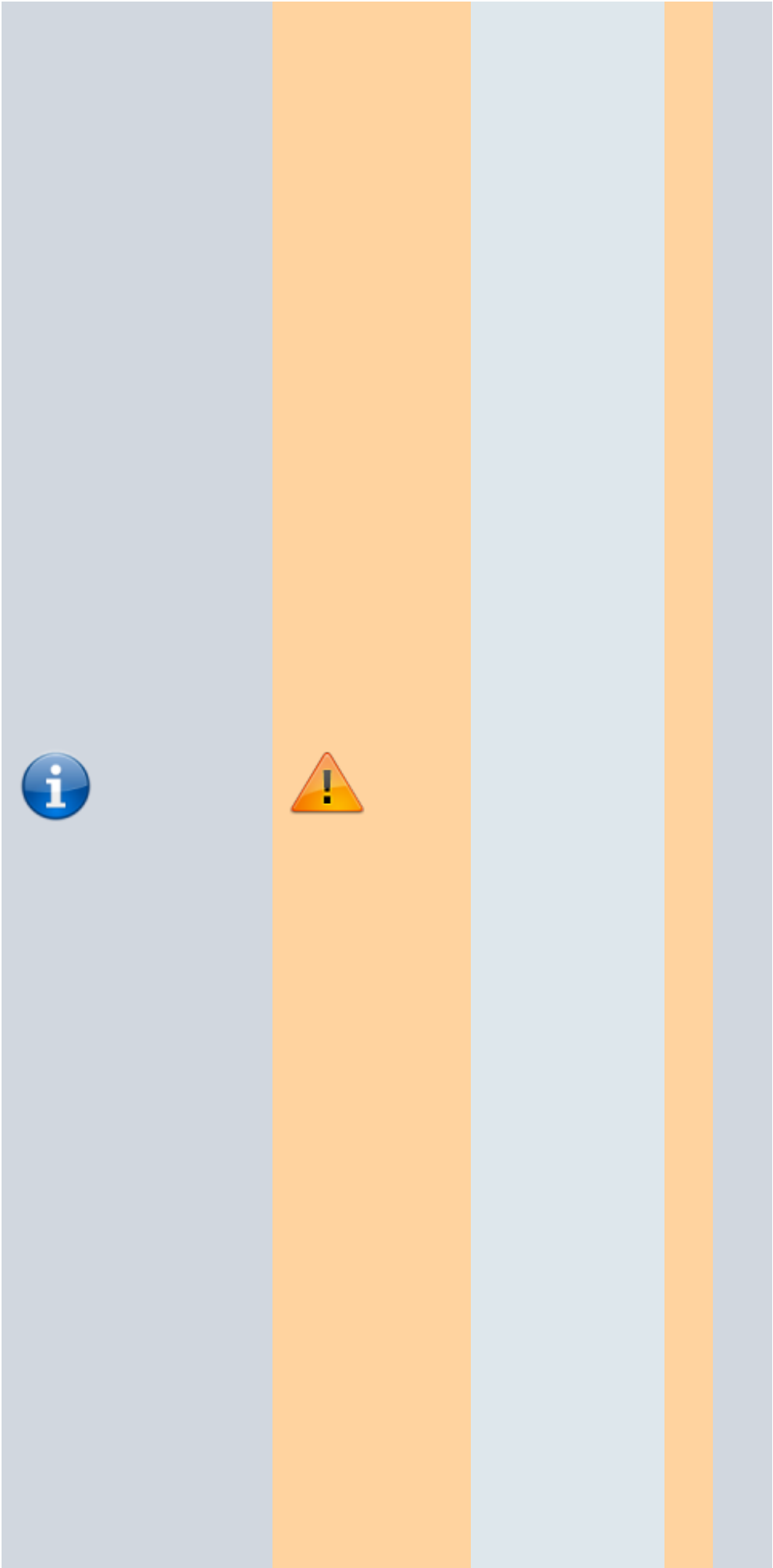


```
• /  
e  
t  
c  
/  
i  
n  
i  
t  
.  
d  
/  
h  
o  
s  
t  
n  
a  
m  
e  
.  
s  
h  
s  
t  
a  
r  
t
```





**F  
i  
c  
h  
i  
e  
r  
/  
e  
t  
c  
/  
h  
o  
s  
t  
s**

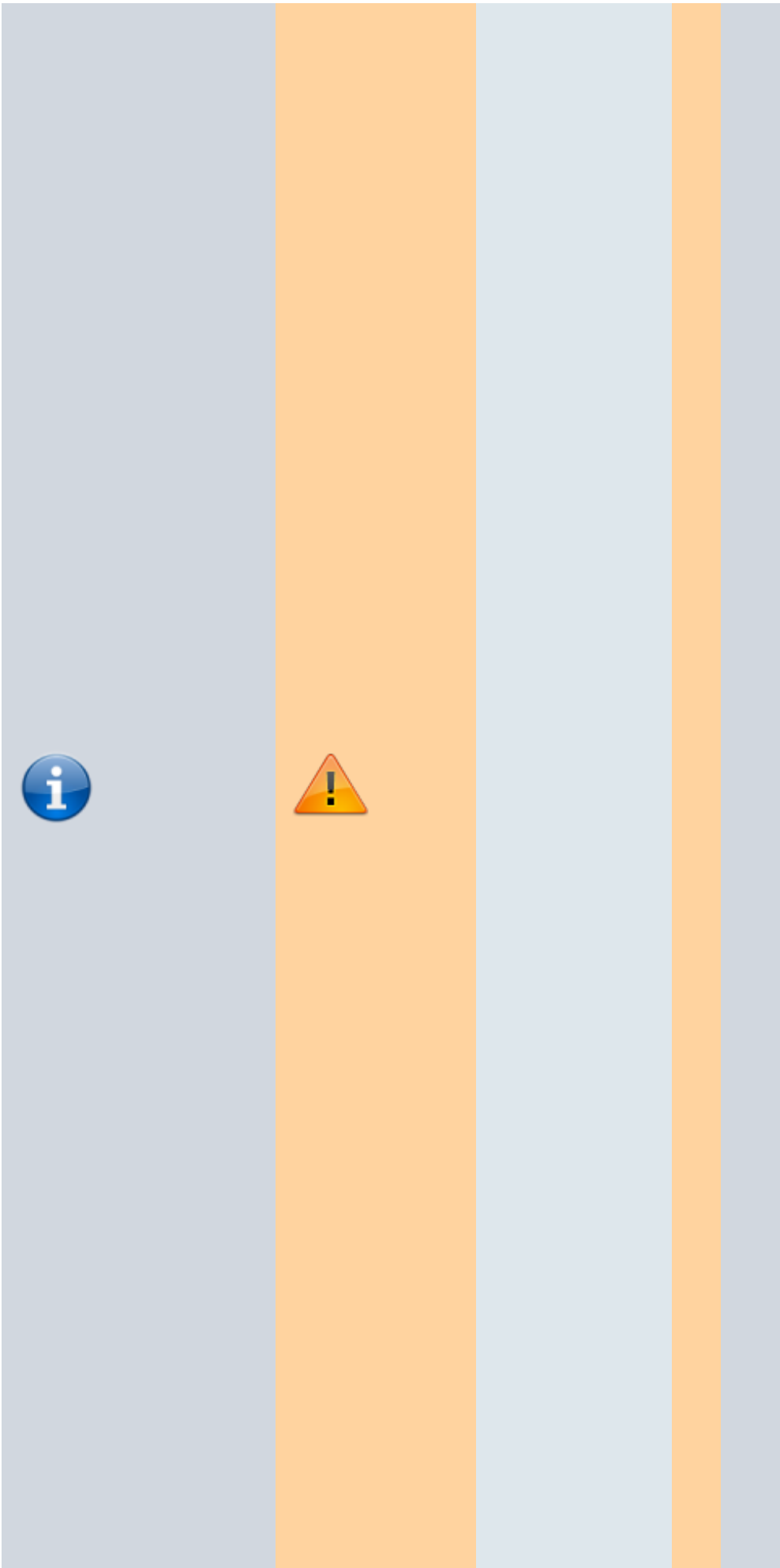
É  
d  
i  
t  
e  
z  
a  
v  
e  
c  
l  
e  
s  
d  
r  
o  
i  
t  
s  
d  
'  
a  
d  
m  
i  
n  
i  
s  
t  
r  
a  
t



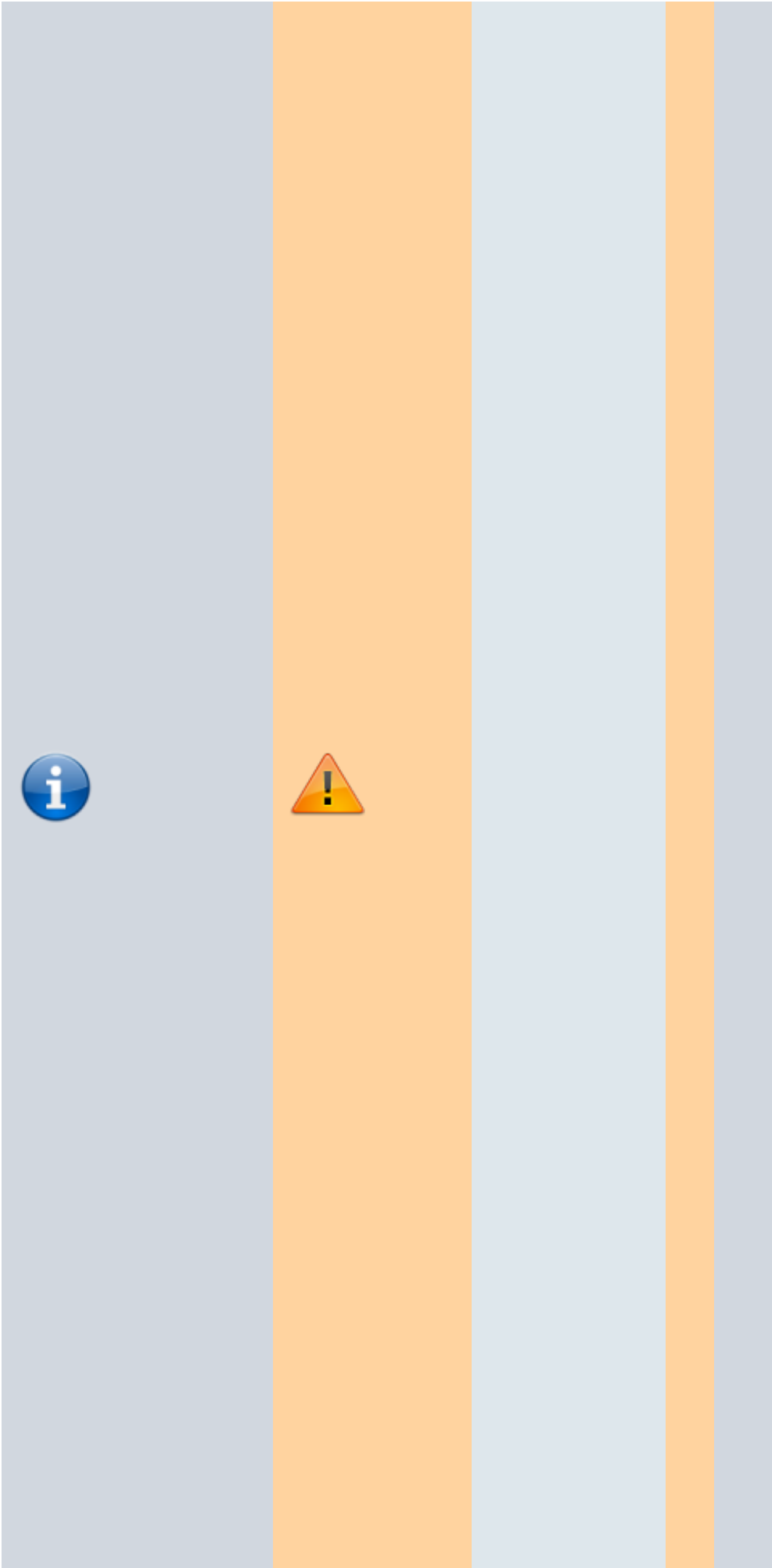
i  
o  
n  
l  
e  
f  
i  
c  
h  
i  
e  
r  
/  
e  
t  
c  
/  
h  
o  
s  
t  
s  
p  
o  
u  
r  
y  
i  
n  
s  
c  
r  
i  
r  
e  
l  
e  
n  
o  
m  
d  
u  
s  
e  
r  
v  
e  
u  
r  
e  
t  
s

				o n a d r e s s e l P :  / e t c / h o s t s  1 2 7 . 0 . 0 . 1 l o c a l h o s t . l o c a l d o

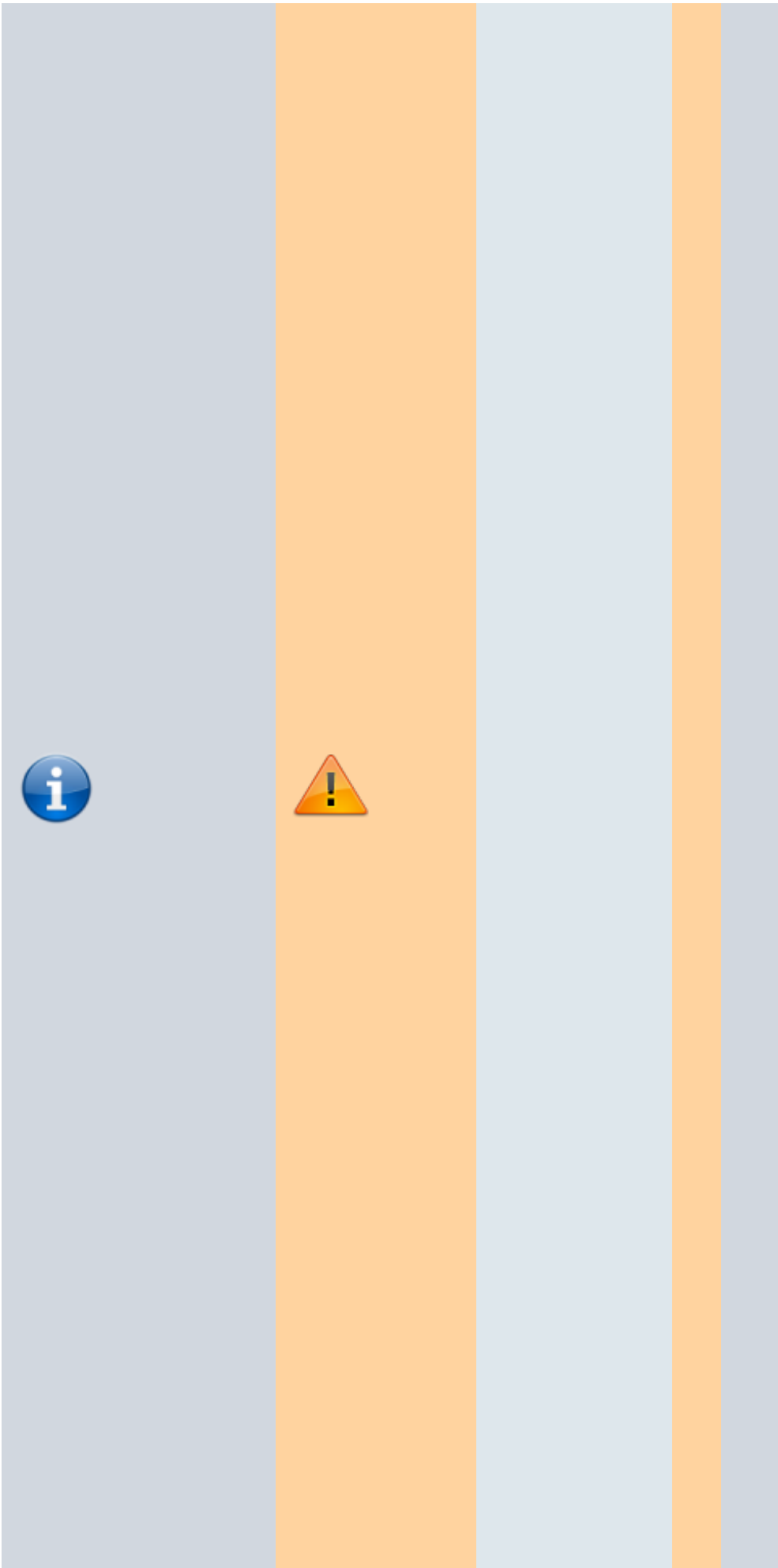
The image shows a vertical stack of colored bars. On the left side, there is a blue circular icon with a white lowercase letter 'i'. In the center, there is a yellow triangular warning icon with a black exclamation mark. On the right side, the text 'mainlocalhosts192.168.0.200dns.mondomaine.lan dns' is written vertically. The bars are colored in shades of blue, orange, and grey.



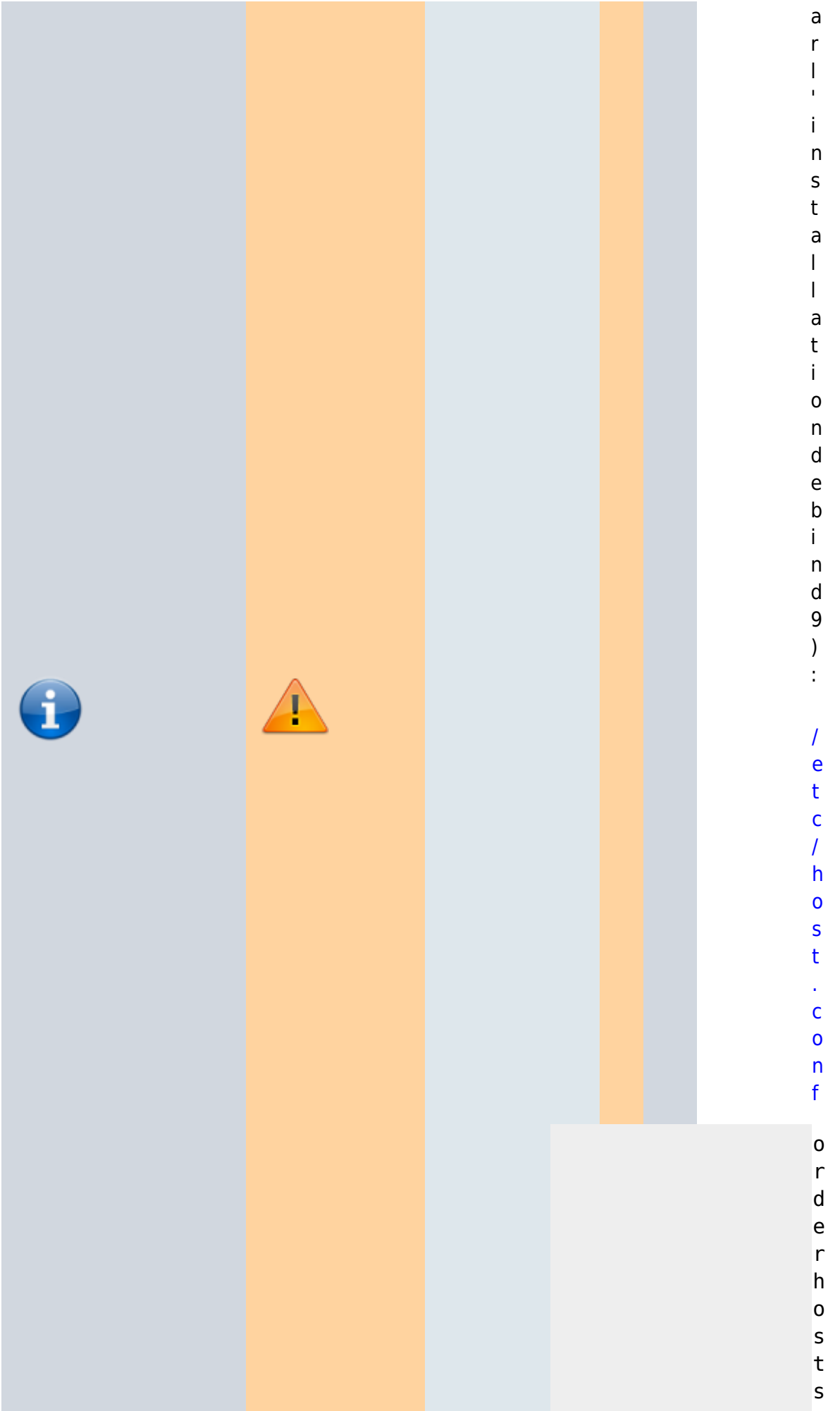
F  
i  
c  
h  
i  
e  
r  
/  
e  
t  
c  
/  
h  
o  
s  
t  
.  
c  
o  
n  
f  
(  
v  
é  
r  
i  
f  
i  
c  
a  
t  
i  
o  
n  
)  
É  
d  
i  
t  
e  
z  
a  
v  
e  
c  
l  
e  
s  
d  
r



o  
i  
t  
s  
d  
·  
a  
d  
m  
i  
n  
i  
s  
t  
r  
a  
t  
i  
o  
n  
l  
e  
f  
i  
c  
h  
i  
e  
r  
/  
e  
t  
c  
/  
h  
o  
s  
t  
·  
c  
o  
n  
f  
p  
o  
u  
r  
y  
i  
n  
s  
é



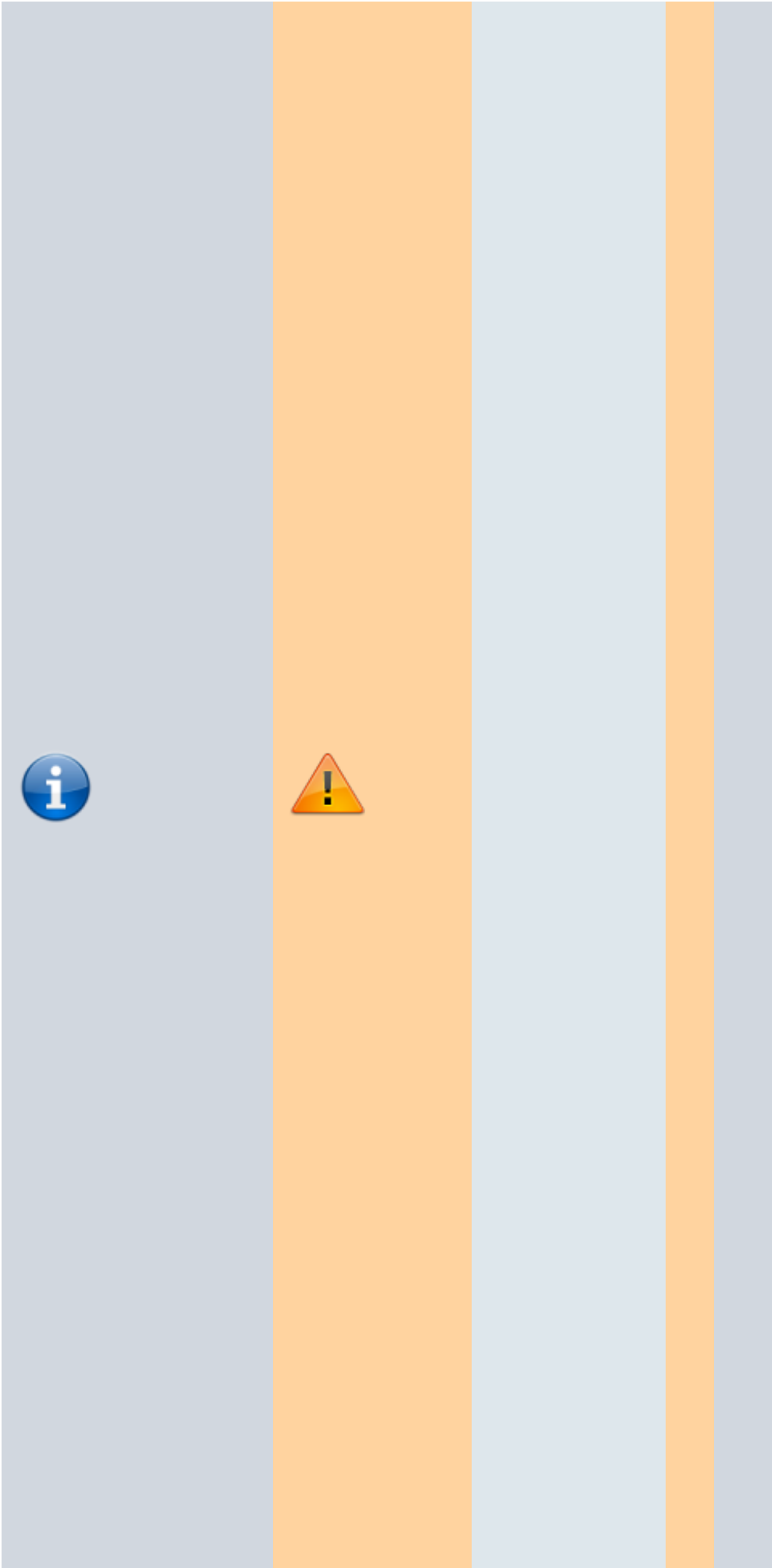
r  
e  
r  
l  
e  
s  
p  
a  
r  
a  
m  
è  
t  
r  
e  
s  
s  
u  
i  
v  
a  
n  
t  
s  
(  
n  
o  
r  
m  
a  
l  
e  
m  
e  
n  
t  
c  
'  
e  
s  
t  
d  
é  
j  
à  
f  
a  
i  
t  
p



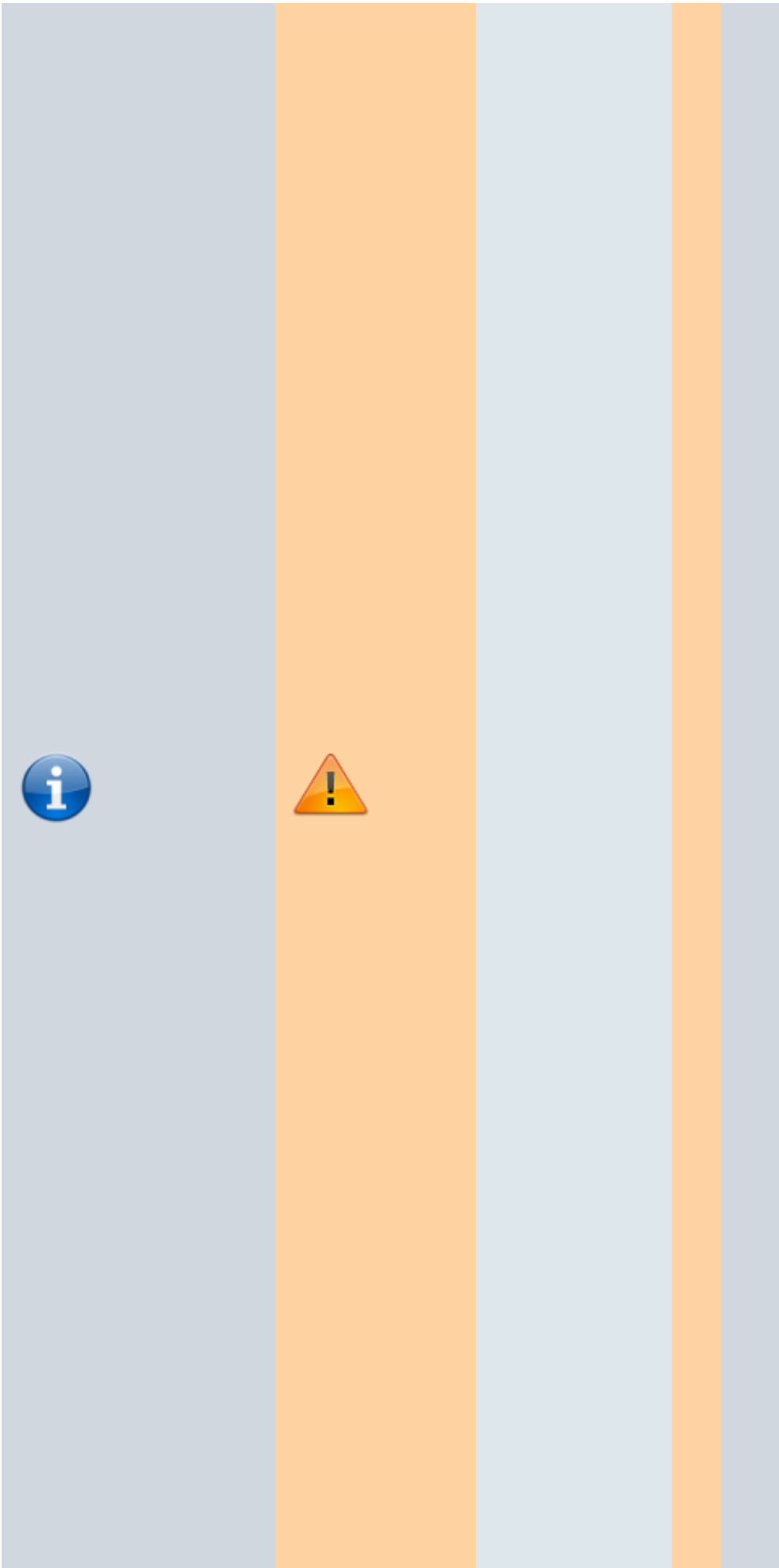
bindmulltion

Fichier/etc/resolv.conf

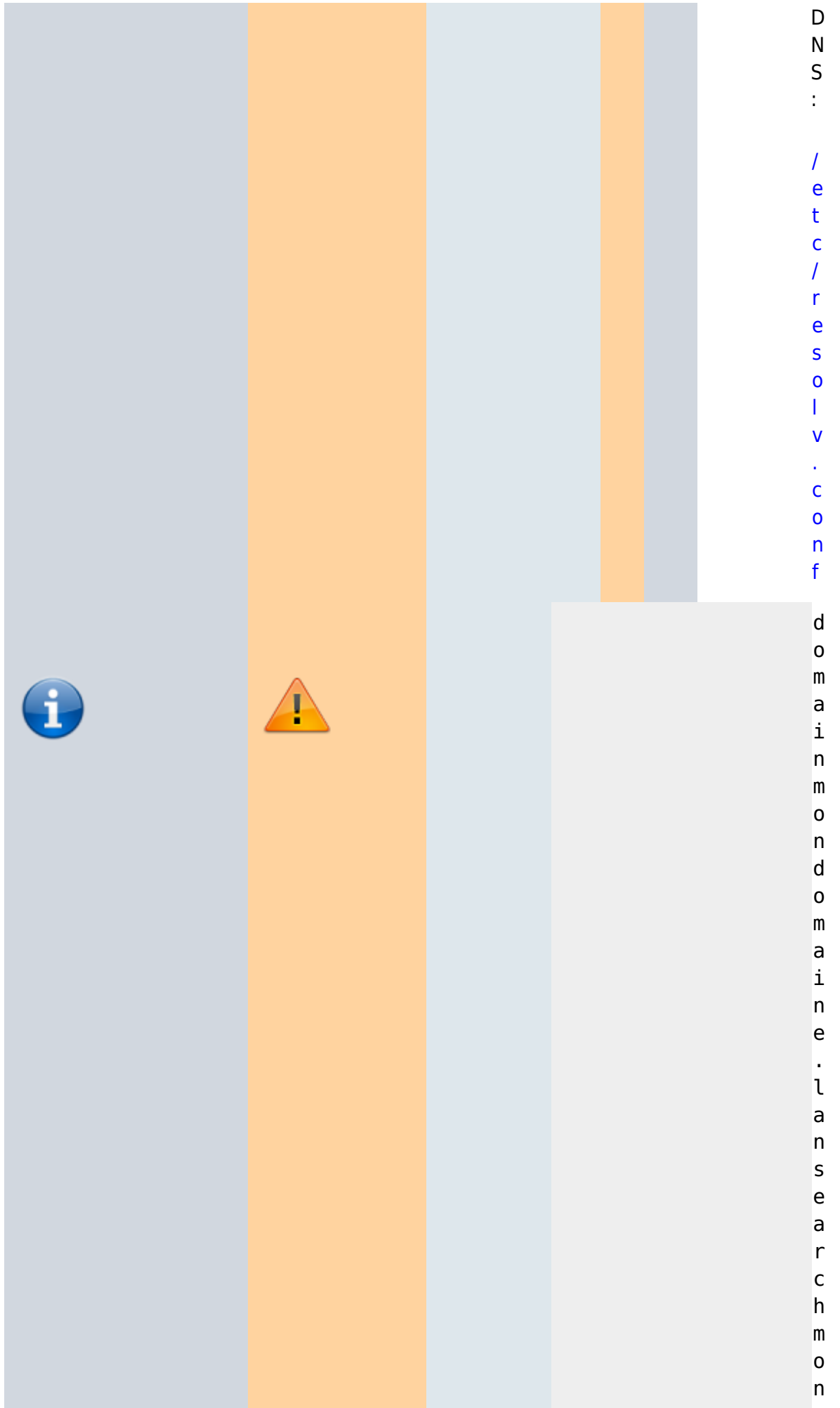
Éditez avec le



s  
d  
r  
o  
i  
t  
s  
d  
·  
a  
d  
m  
i  
n  
i  
s  
t  
r  
a  
t  
i  
o  
n  
l  
e  
f  
i  
c  
h  
i  
e  
r  
/  
e  
t  
c  
/  
r  
e  
s  
o  
l  
v  
·  
c  
o  
n  
f  
p  
o  
u  
r

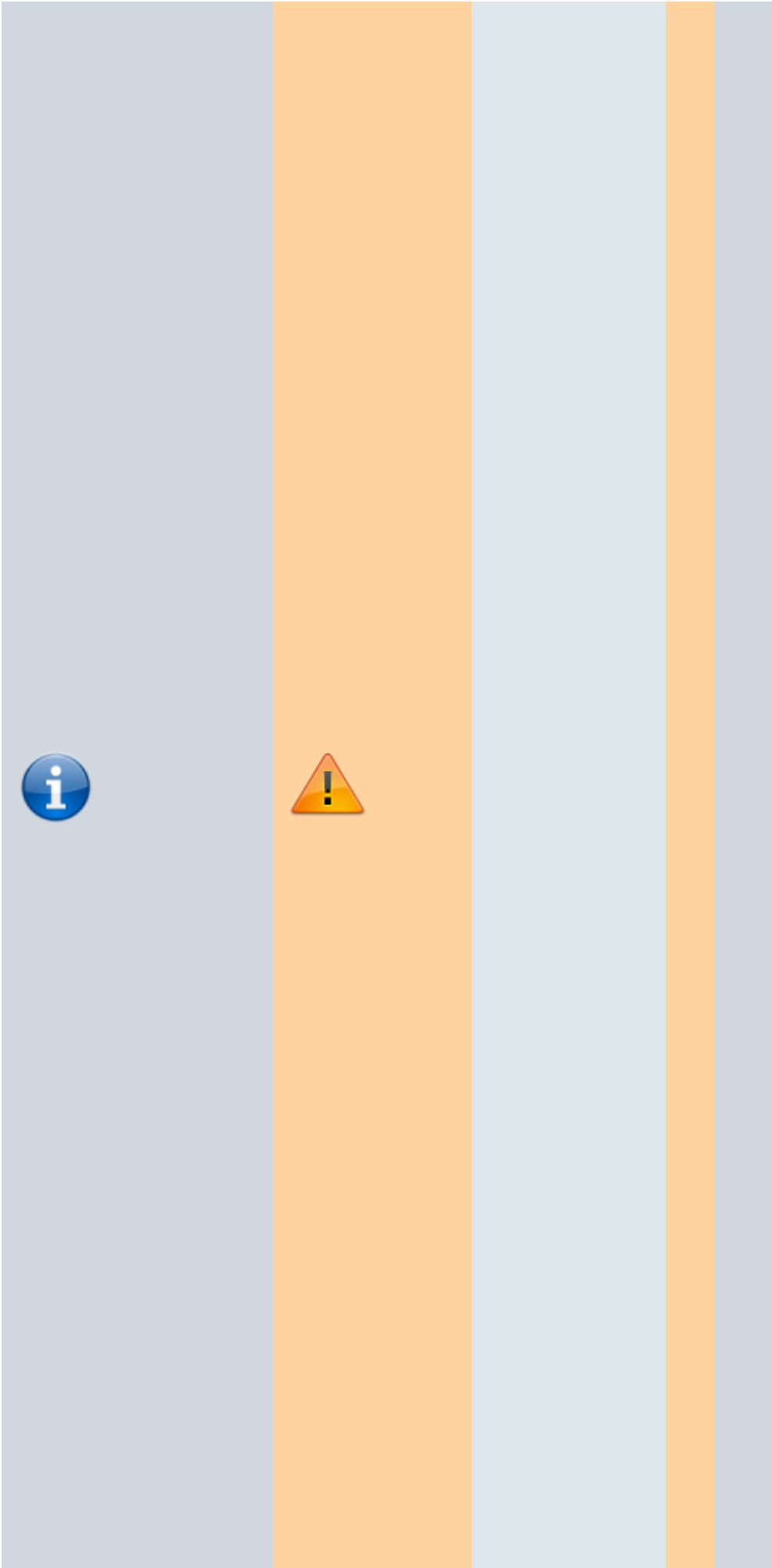


y  
e  
n  
t  
r  
e  
r  
l  
e  
d  
o  
m  
a  
i  
n  
e  
,  
l  
a  
z  
o  
n  
e  
d  
e  
r  
e  
c  
h  
e  
r  
c  
h  
e  
t  
l  
e  
n  
o  
m  
d  
u  
s  
e  
r  
v  
e  
u  
r



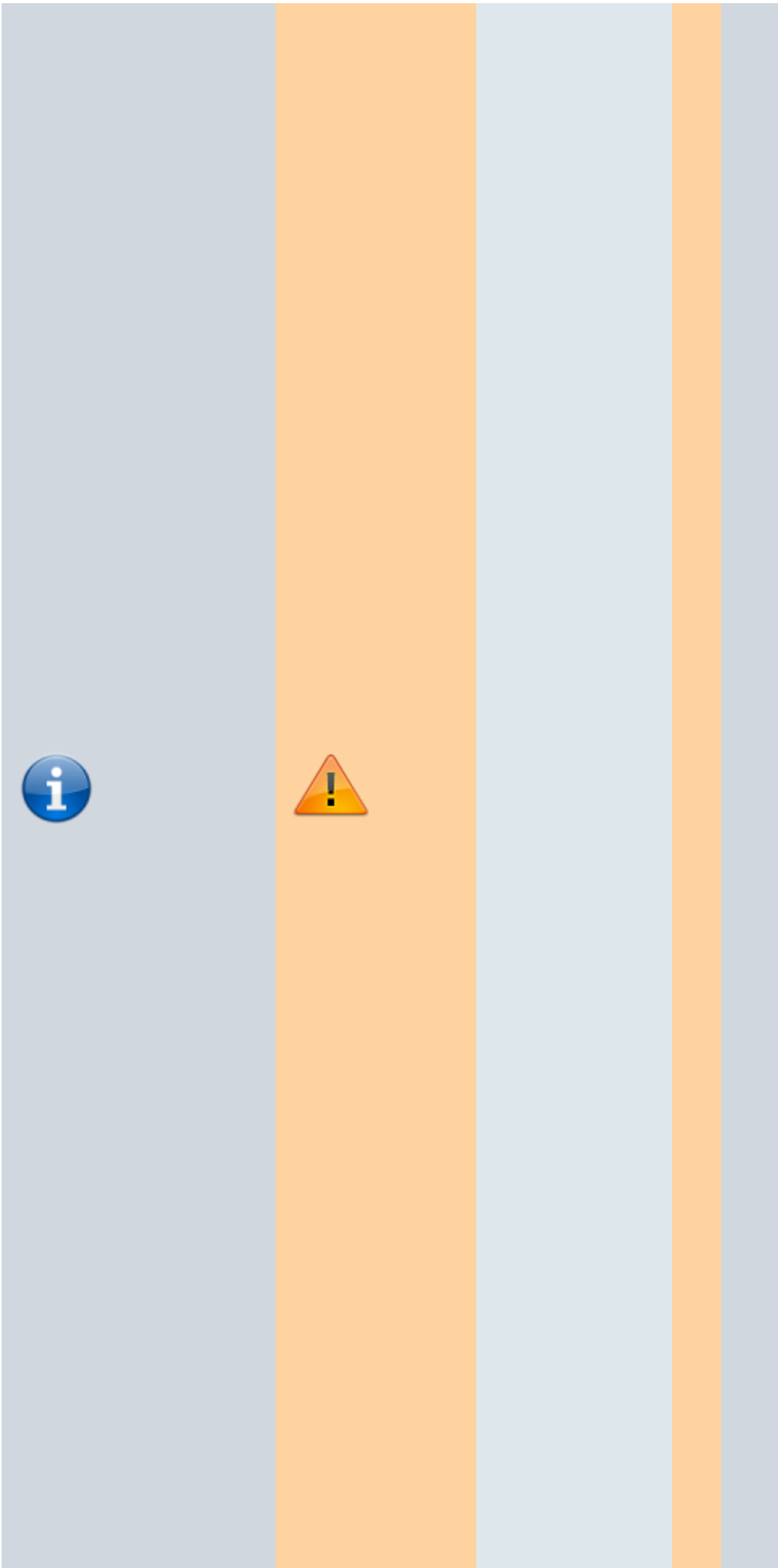
domaine.lannameserver192.168.0.200

**C  
o  
n  
f  
i  
g  
u  
r  
a  
t  
i  
o**

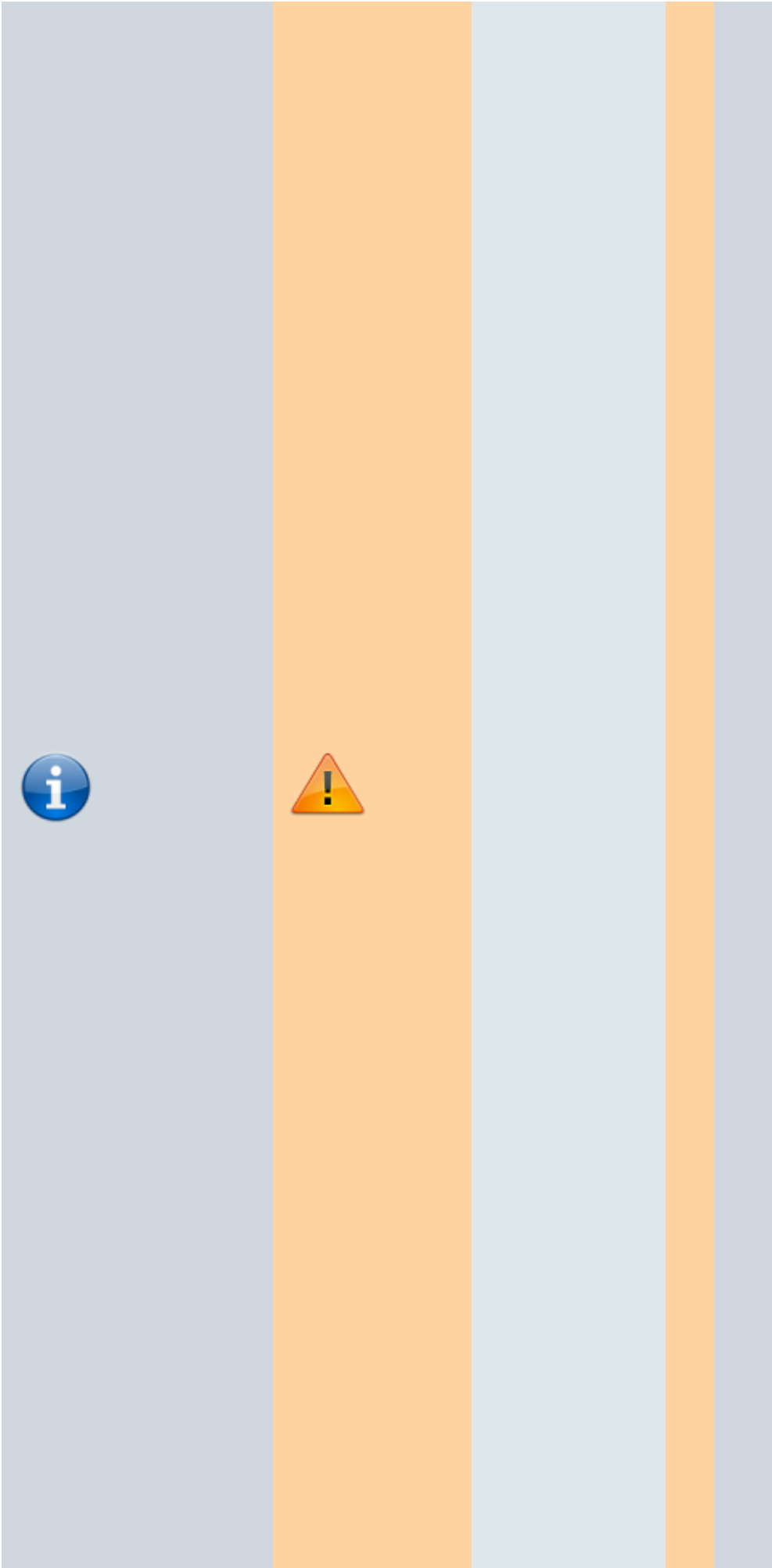


**n  
d  
e  
l  
·  
o  
r  
d  
i  
n  
a  
t  
e  
u  
r**

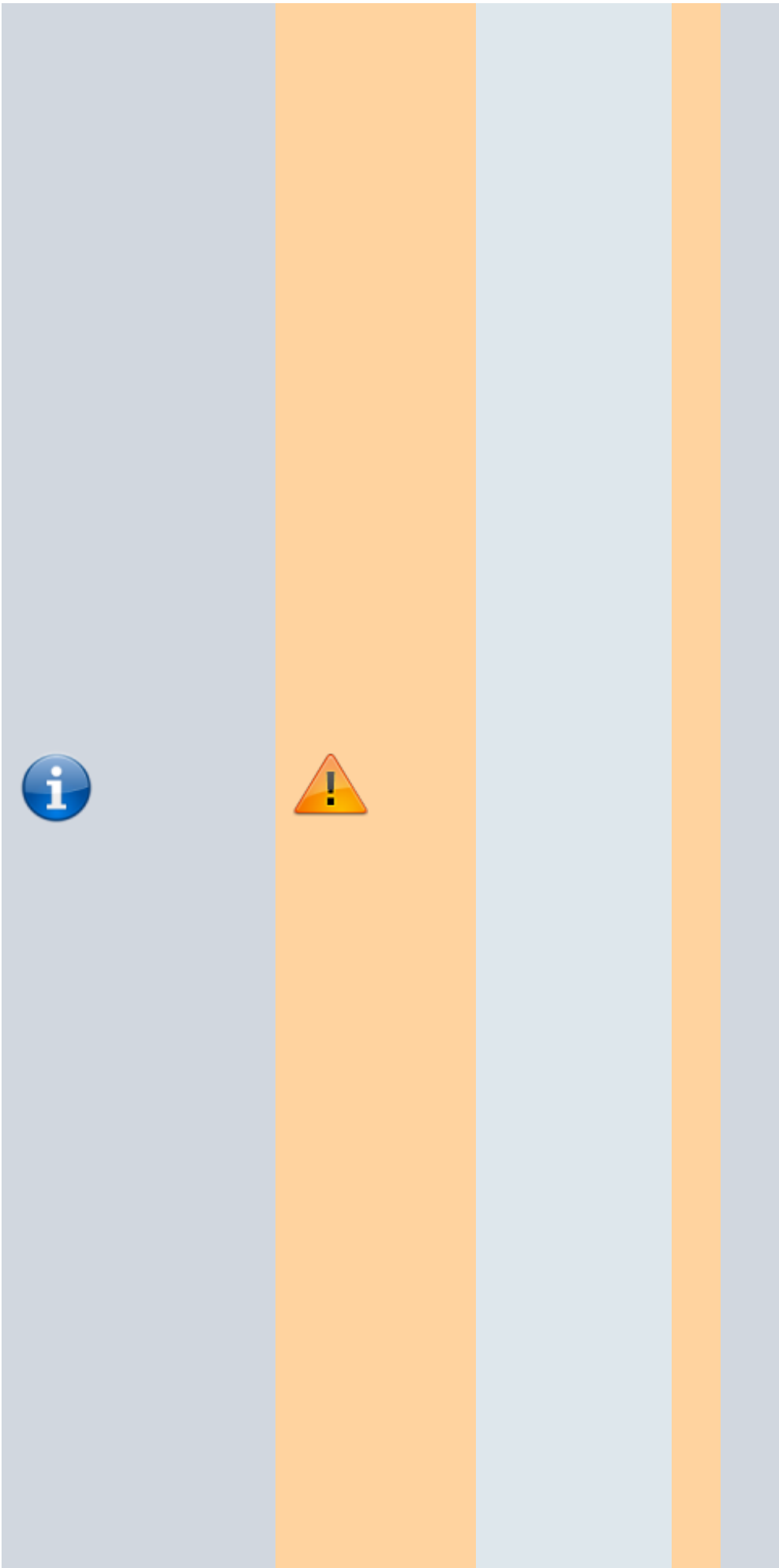
L  
a  
d  
e  
r  
n  
i  
è  
r  
e  
é  
t  
a  
p  
e  
c  
o  
n  
s  
i  
s  
t  
e  
à  
c  
o  
n  
f  
i  
g  
u  
r  
e



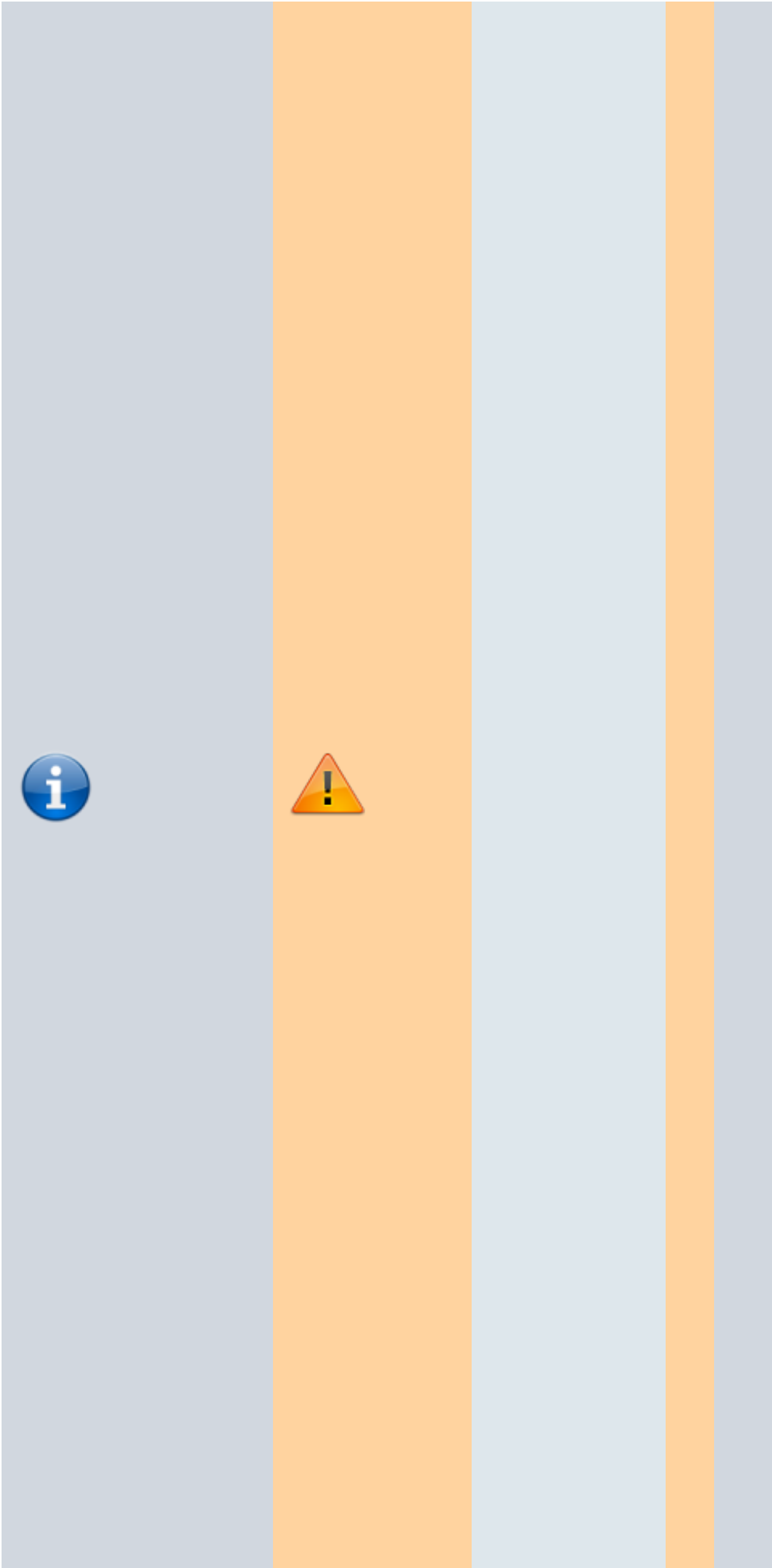
r  
v  
o  
t  
r  
e  
o  
r  
d  
i  
n  
a  
t  
e  
u  
r  
p  
o  
u  
r  
u  
t  
i  
l  
i  
s  
e  
r  
l  
e  
R  
a  
s  
p  
b  
e  
r  
r  
y  
P  
i  
c  
o  
m  
m  
e  
s  
e  
r  
v



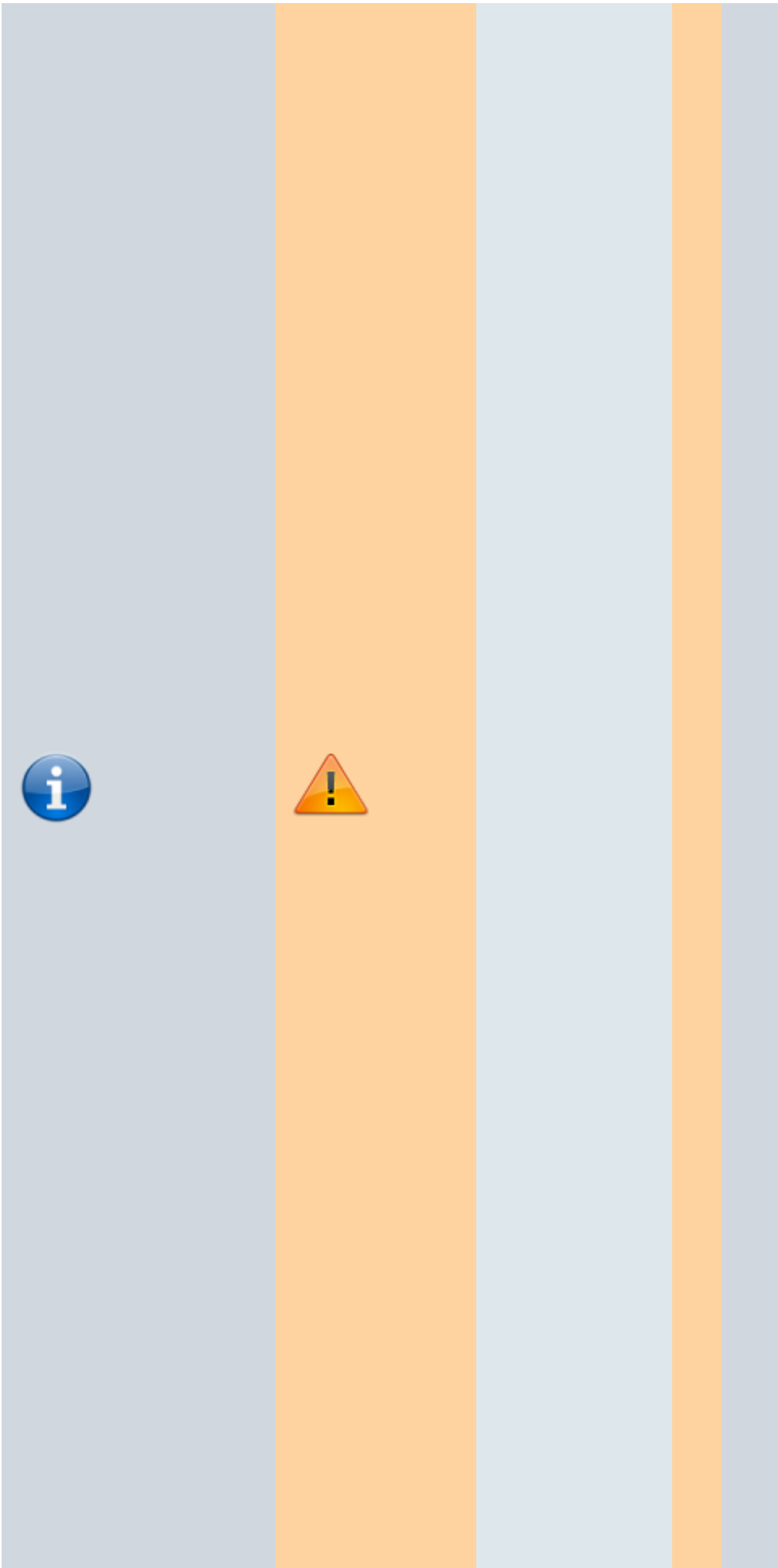
e  
u  
r  
D  
N  
S  
·  
P  
o  
u  
r  
c  
e  
f  
a  
i  
r  
e  
,  
v  
o  
u  
s  
a  
v  
e  
z  
d  
e  
u  
x  
o  
p  
t  
i  
o  
n  
s  
:  
**C  
o  
n  
f  
i  
g  
u  
r  
a  
t  
i  
o**



n  
m  
a  
n  
u  
e  
l  
l  
e  
:  
s  
e  
l  
o  
n  
v  
o  
t  
r  
e  
s  
y  
s  
t  
è  
m  
e  
'  
e  
x  
p  
l  
o  
i  
t  
a  
t  
i  
o  
n  
,  
a  
l  
l  
e  
z  
d  
a  
n

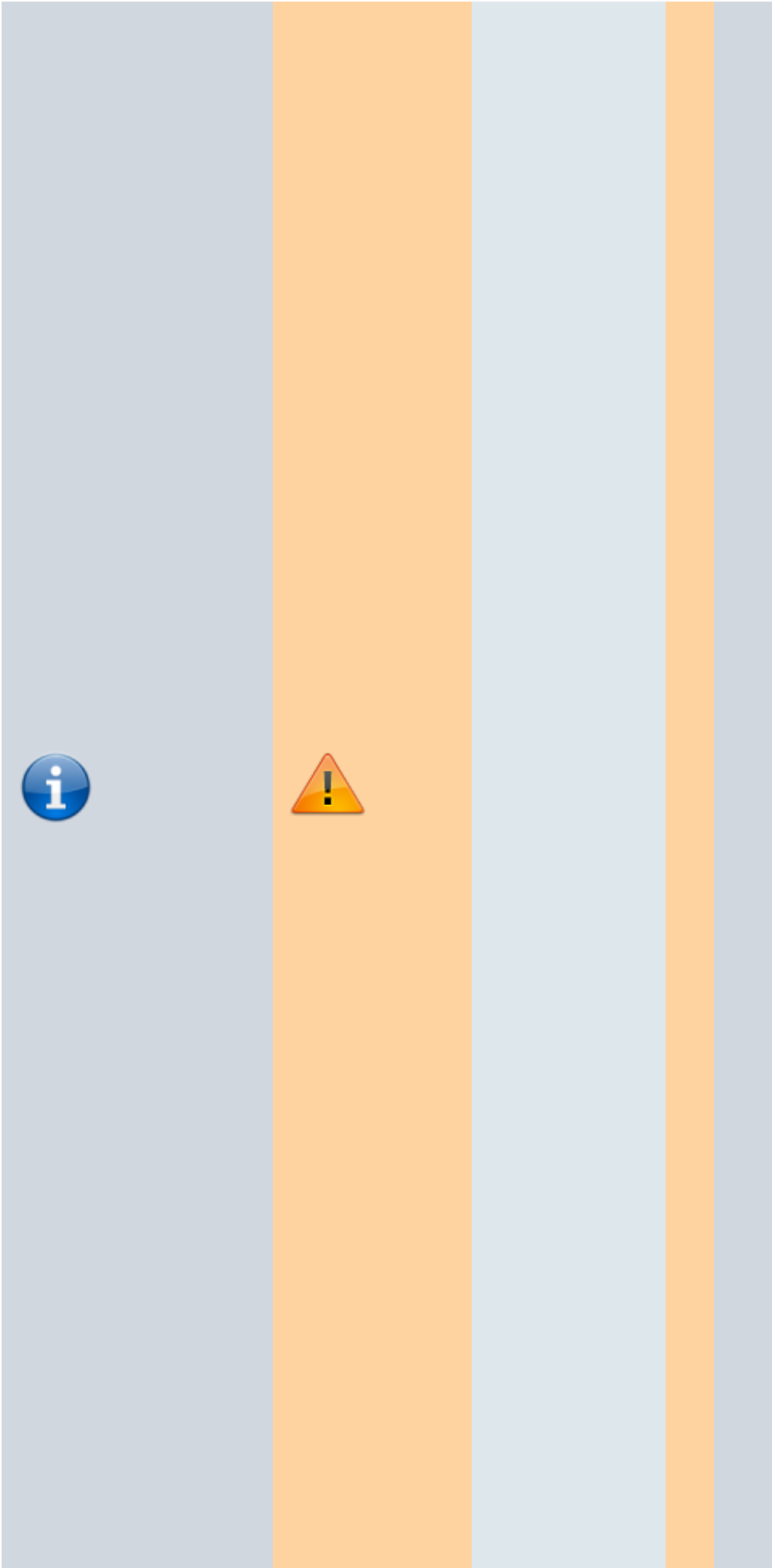


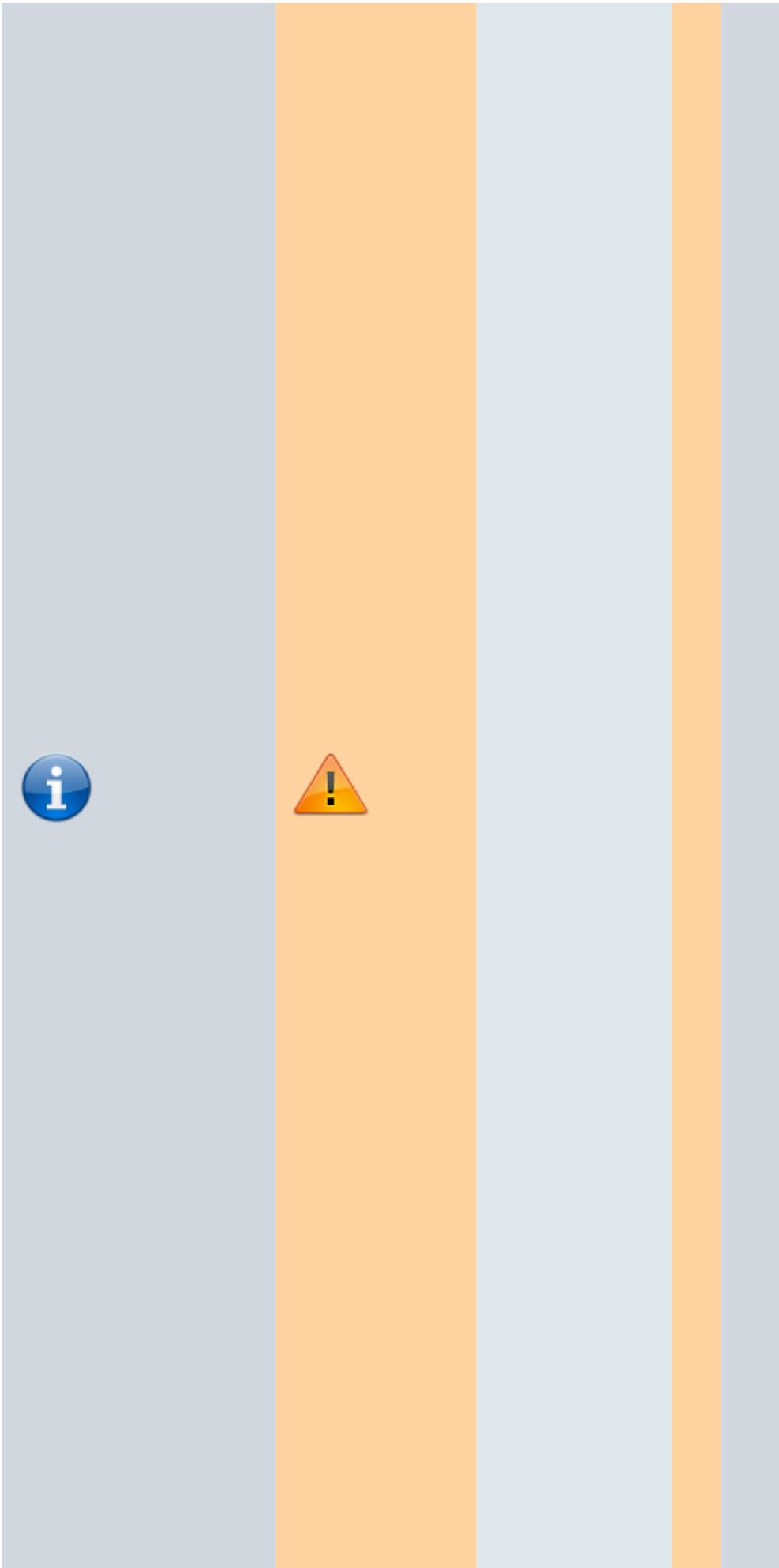
S  
V  
O  
S  
p  
a  
r  
a  
m  
è  
t  
r  
e  
s  
r  
é  
s  
e  
a  
u  
e  
t  
d  
é  
f  
i  
n  
i  
s  
s  
e  
z  
l  
e  
s  
e  
r  
v  
e  
u  
r  
D  
N  
S  
p  
r  
i  
n  
c  
i  
p  
a



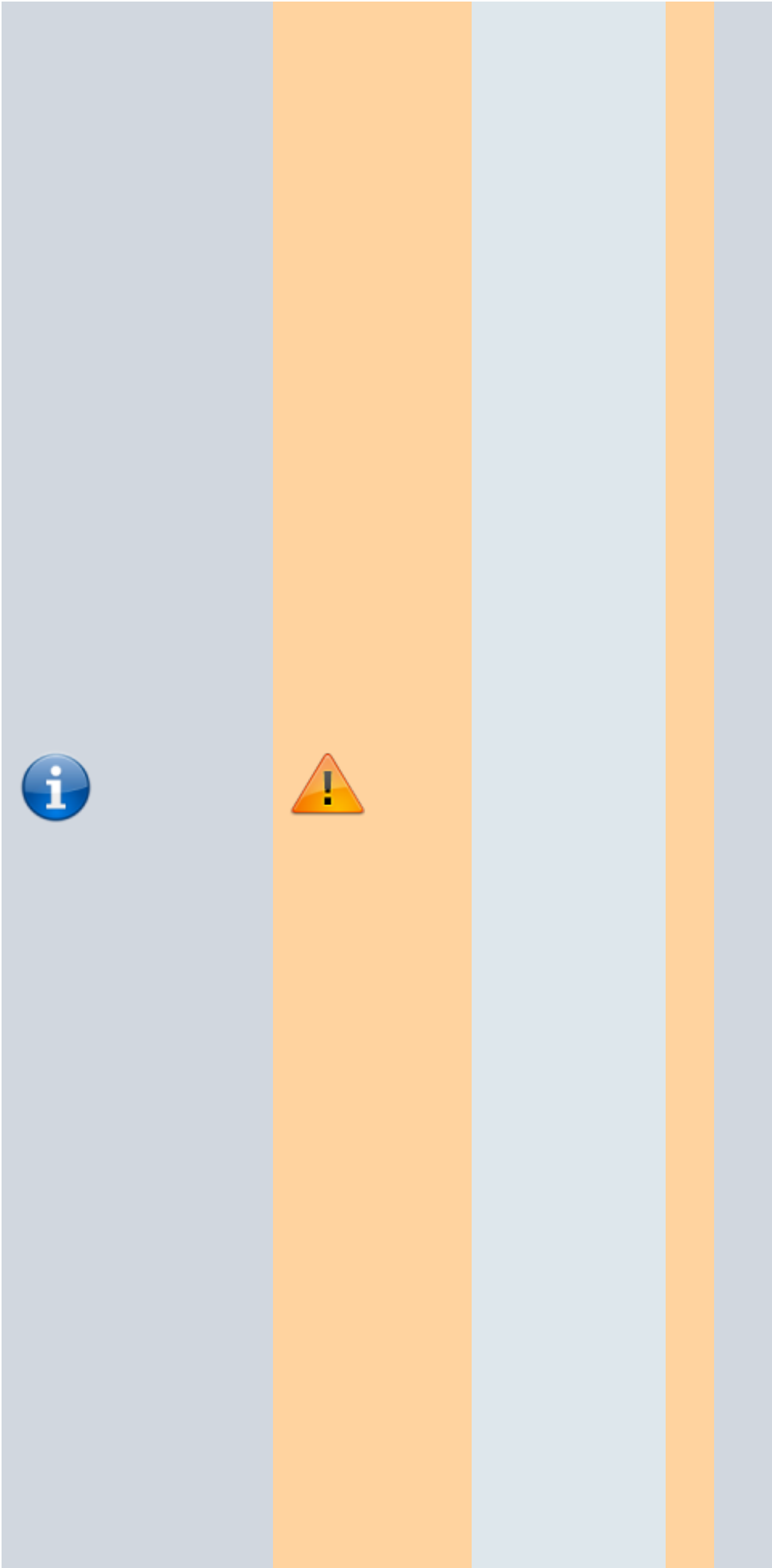
l  
a  
v  
e  
c  
l  
,  
a  
d  
r  
e  
s  
s  
e  
l  
P  
d  
u  
R  
a  
s  
p  
b  
e  
r  
r  
y  
P  
i  
.

o.  
**S  
o  
u  
s  
W  
i  
n  
d  
o  
w  
s**  
,  
c  
,  
e  
s  
t  
d  
a

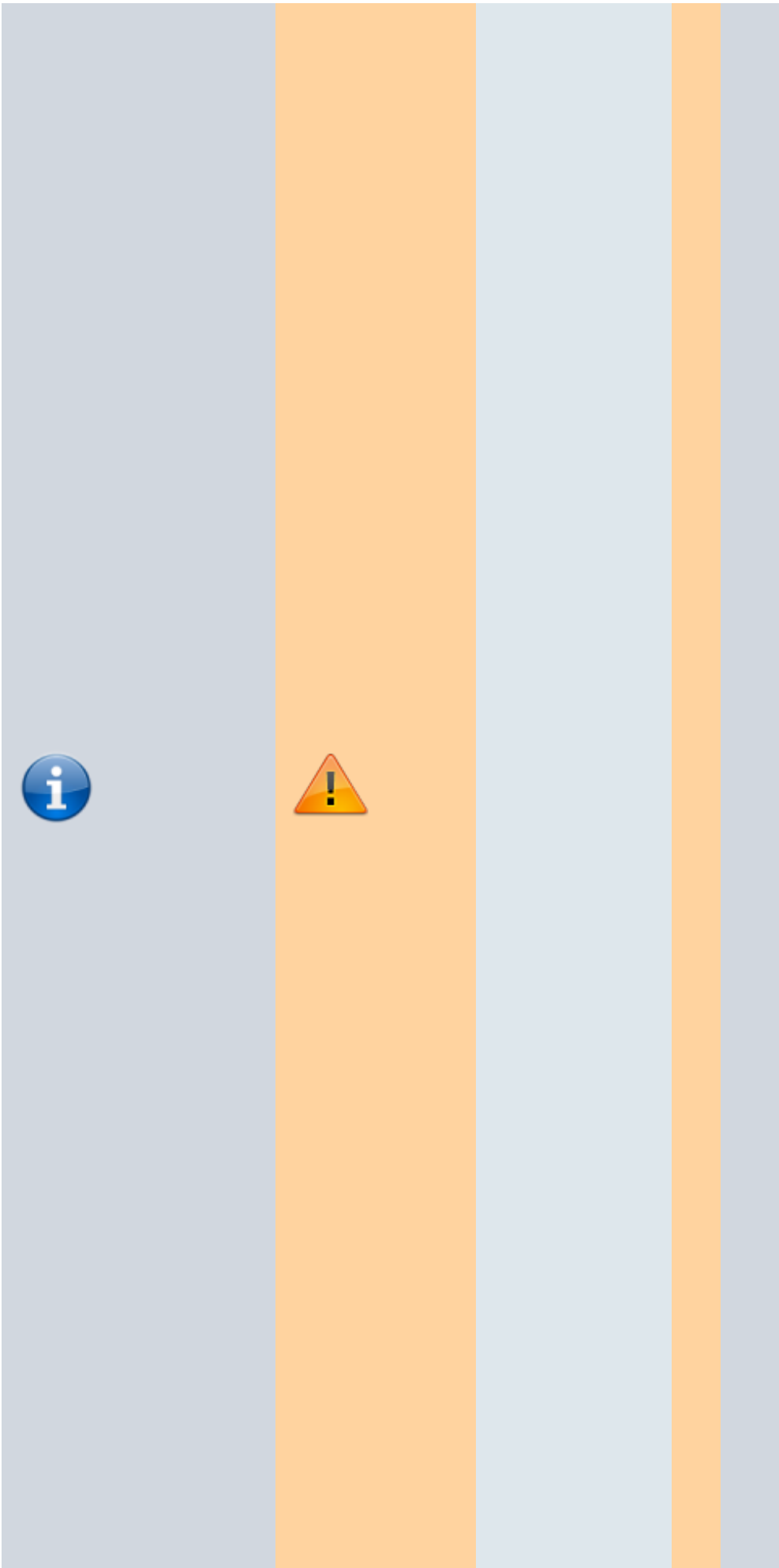




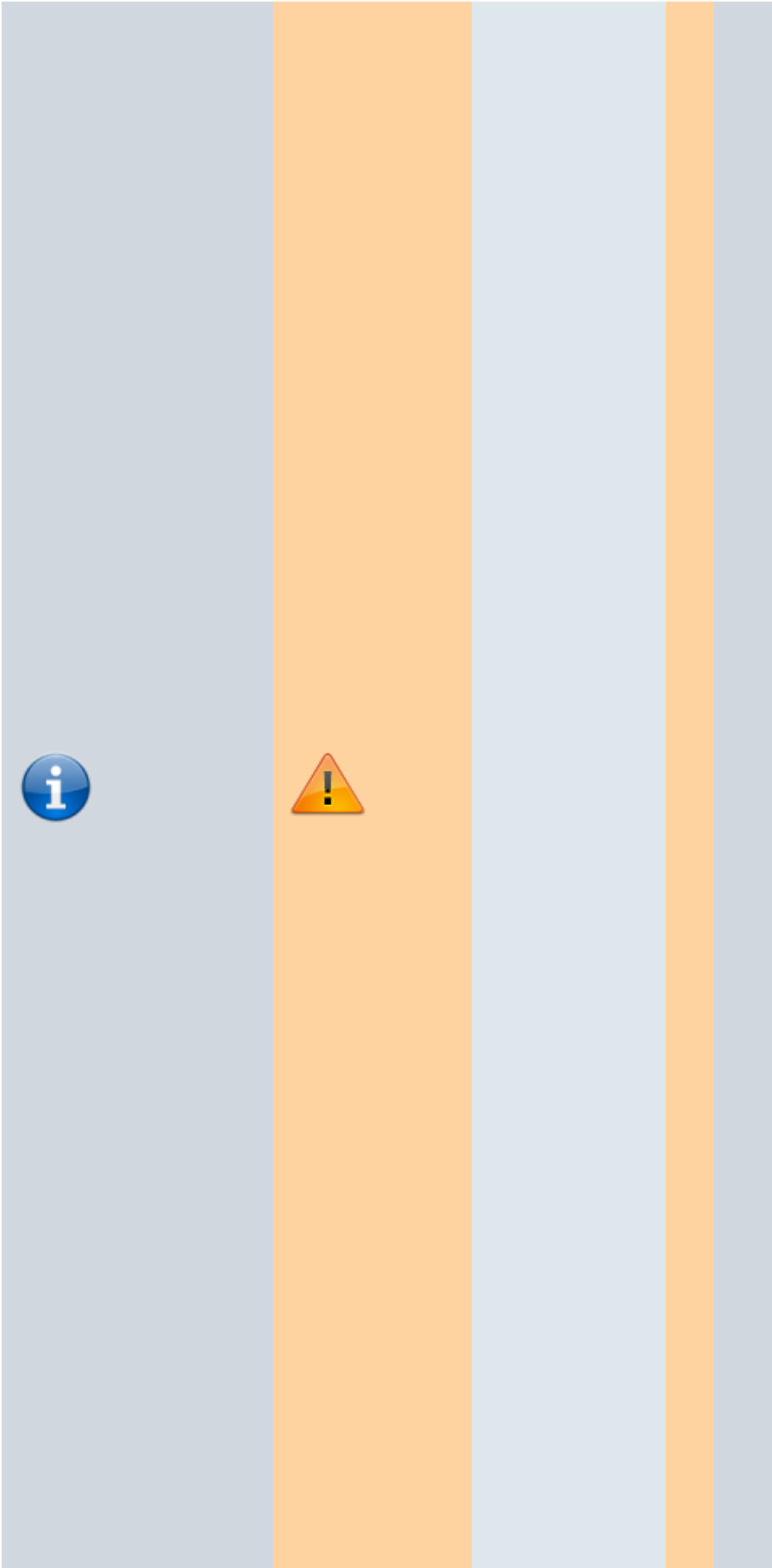
S  
e  
a  
u  
e  
t  
p  
a  
r  
t  
a  
g  
e  
>  
M  
o  
d  
i  
f  
i  
e  
r  
i  
e  
s  
p  
a  
r  
a  
m  
è  
t  
r  
e  
s  
d  
e  
l  
'  
a  
d  
a  
p  
t  
a  
t  
e  
u  
r  
'  
F



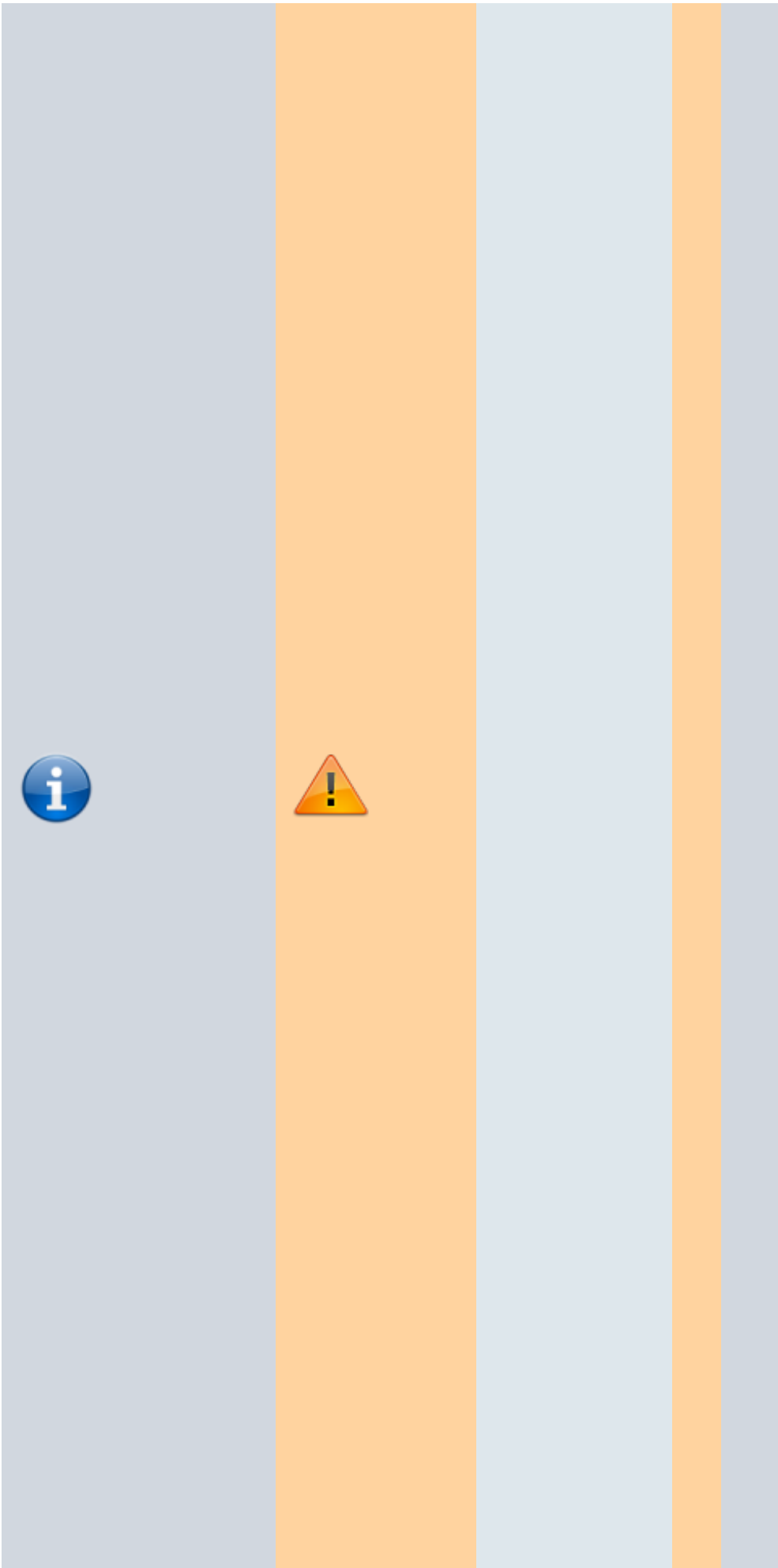
a  
i  
t  
e  
s  
u  
n  
c  
l  
i  
c  
d  
r  
o  
i  
t  
s  
u  
r  
l  
,  
i  
n  
t  
e  
r  
f  
a  
c  
e  
r  
é  
s  
e  
a  
u  
q  
u  
e  
v  
o  
u  
s  
u  
t  
i  
l  
i  
s  
e  
z



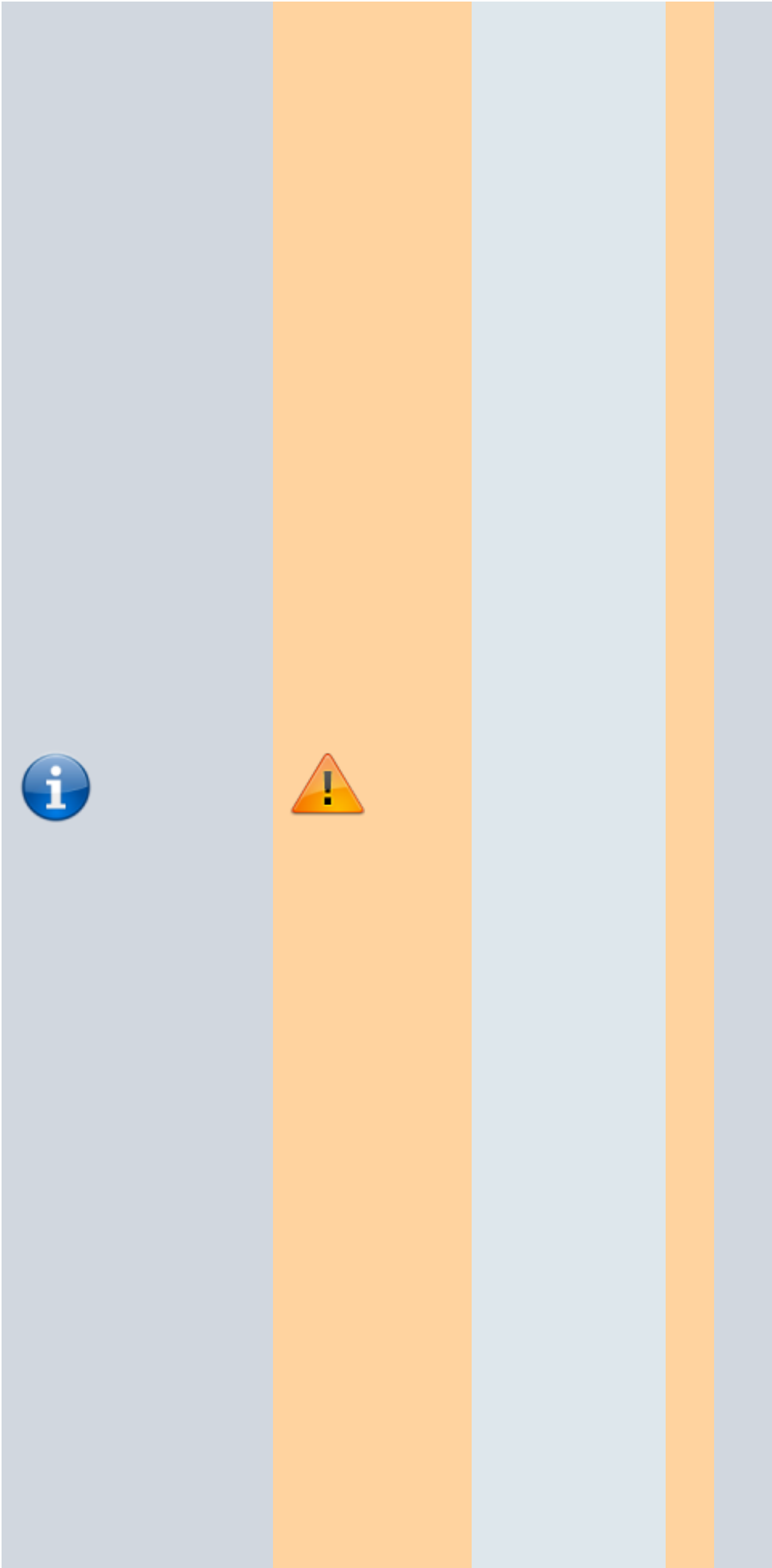
e  
t  
a  
l  
l  
e  
z  
d  
a  
n  
s  
P  
r  
o  
p  
r  
i  
é  
t  
é  
s  
·  
D  
o  
u  
b  
l  
e  
-  
c  
l  
i  
q  
u  
e  
z  
s  
u  
r  
l  
P  
V  
4  
e  
t  
d  
é  
f  
i  
n  
i



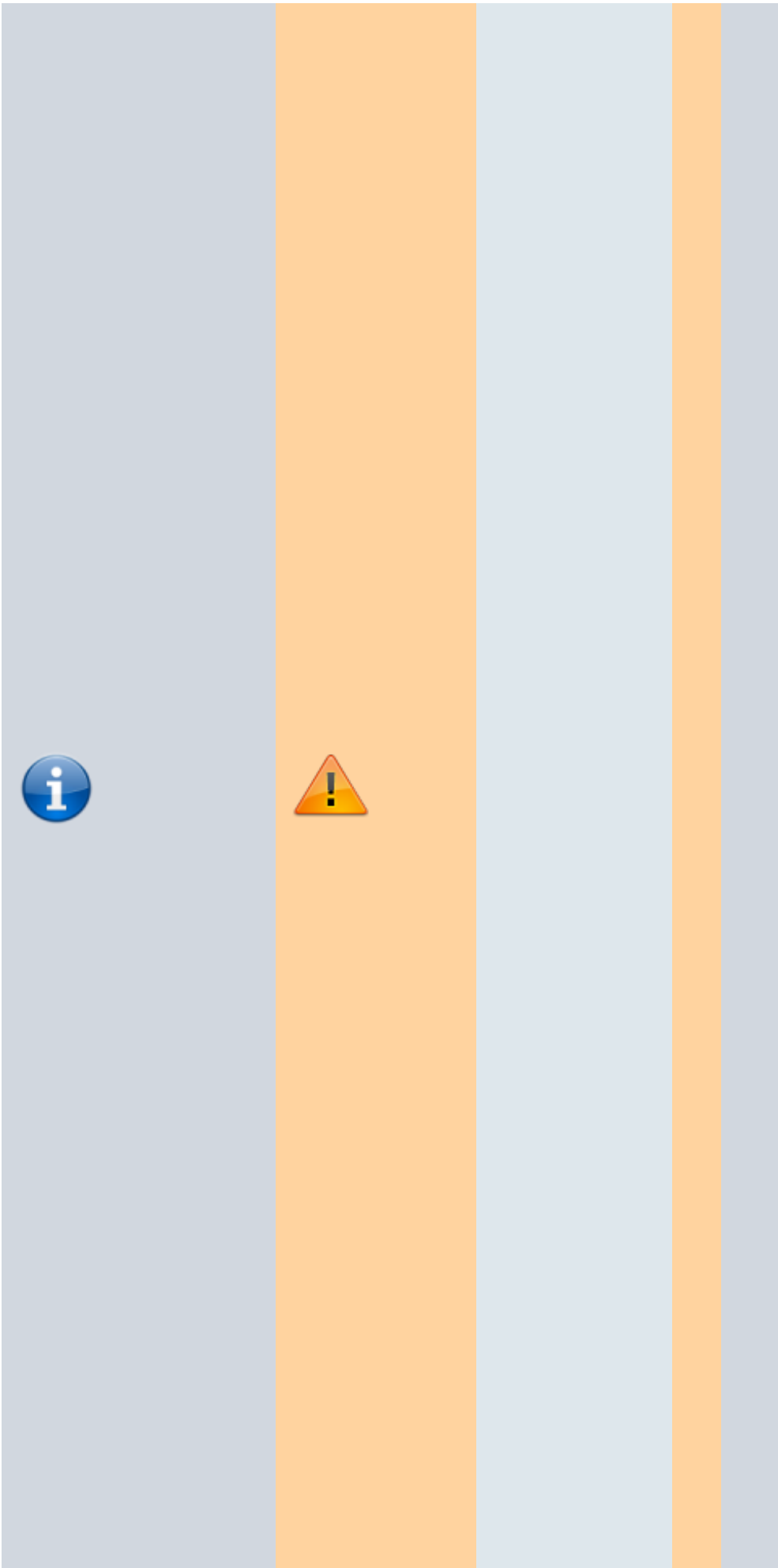
S  
S  
e  
z  
l  
e  
s  
e  
r  
v  
e  
u  
r  
D  
N  
S  
p  
r  
é  
f  
é  
r  
é  
a  
v  
e  
c  
l'  
a  
d  
r  
e  
s  
s  
e  
l  
P  
d  
u  
R  
a  
s  
p  
b  
e  
r  
r  
y  
P  
i



o  
S  
o  
u  
s  
U  
b  
u  
n  
t  
u  
/  
D  
e  
b  
i  
a  
n  
,  
v  
o  
u  
s  
p  
o  
u  
v  
e  
z  
l  
e  
m  
o  
d  
i  
f  
i  
e  
r  
d  
i  
r  
e  
c  
t  
e  
m  
e  
n  
t  
d



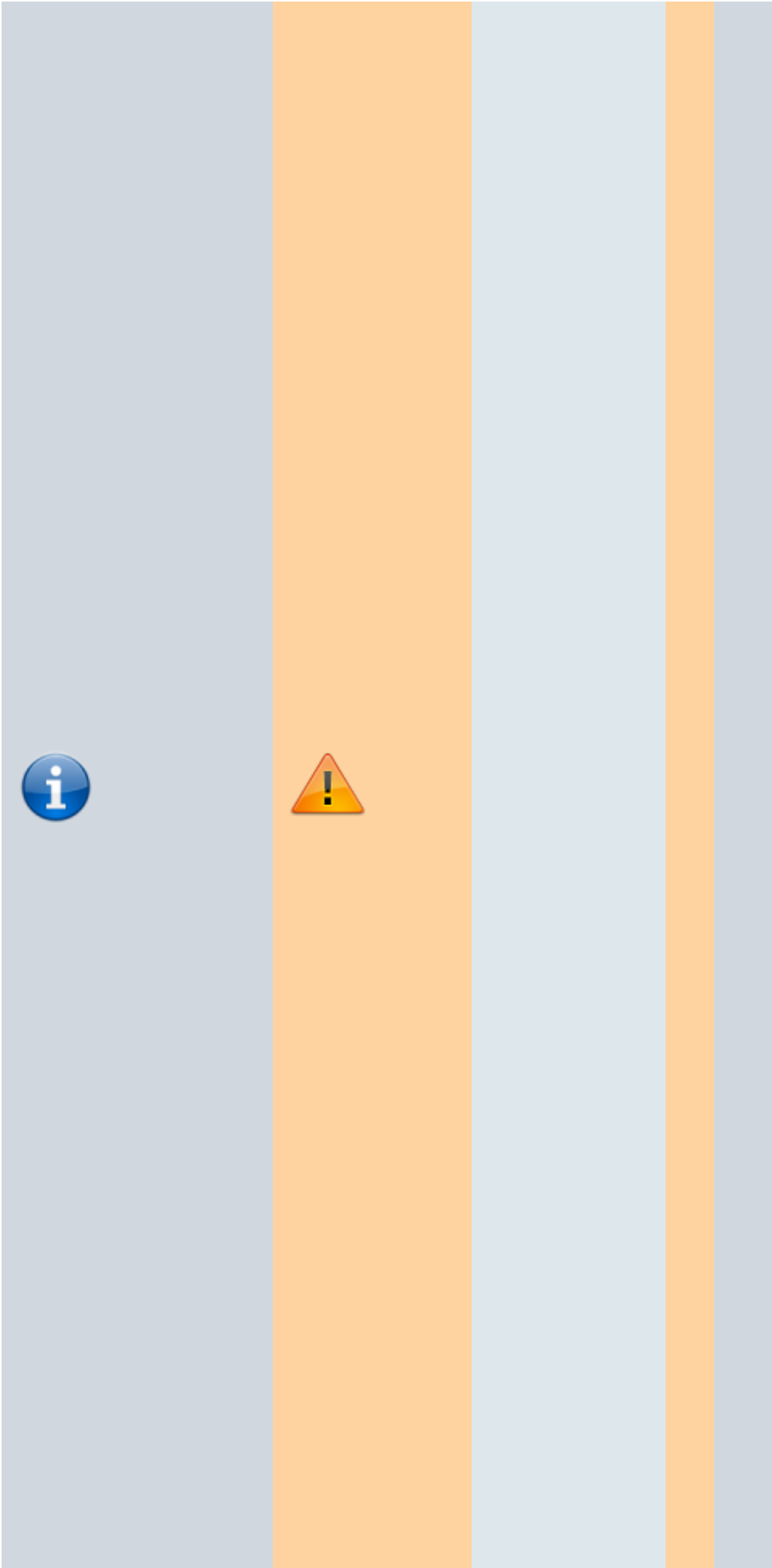
a  
n  
s  
l  
e  
f  
i  
c  
h  
i  
e  
r  
/  
e  
t  
c  
/  
r  
e  
s  
o  
l  
v  
.  
c  
o  
n  
f  
o  
u  
d  
a  
n  
s  
l  
e  
g  
e  
s  
t  
i  
o  
n  
n  
a  
i  
r  
e  
d  
e  
r  
é



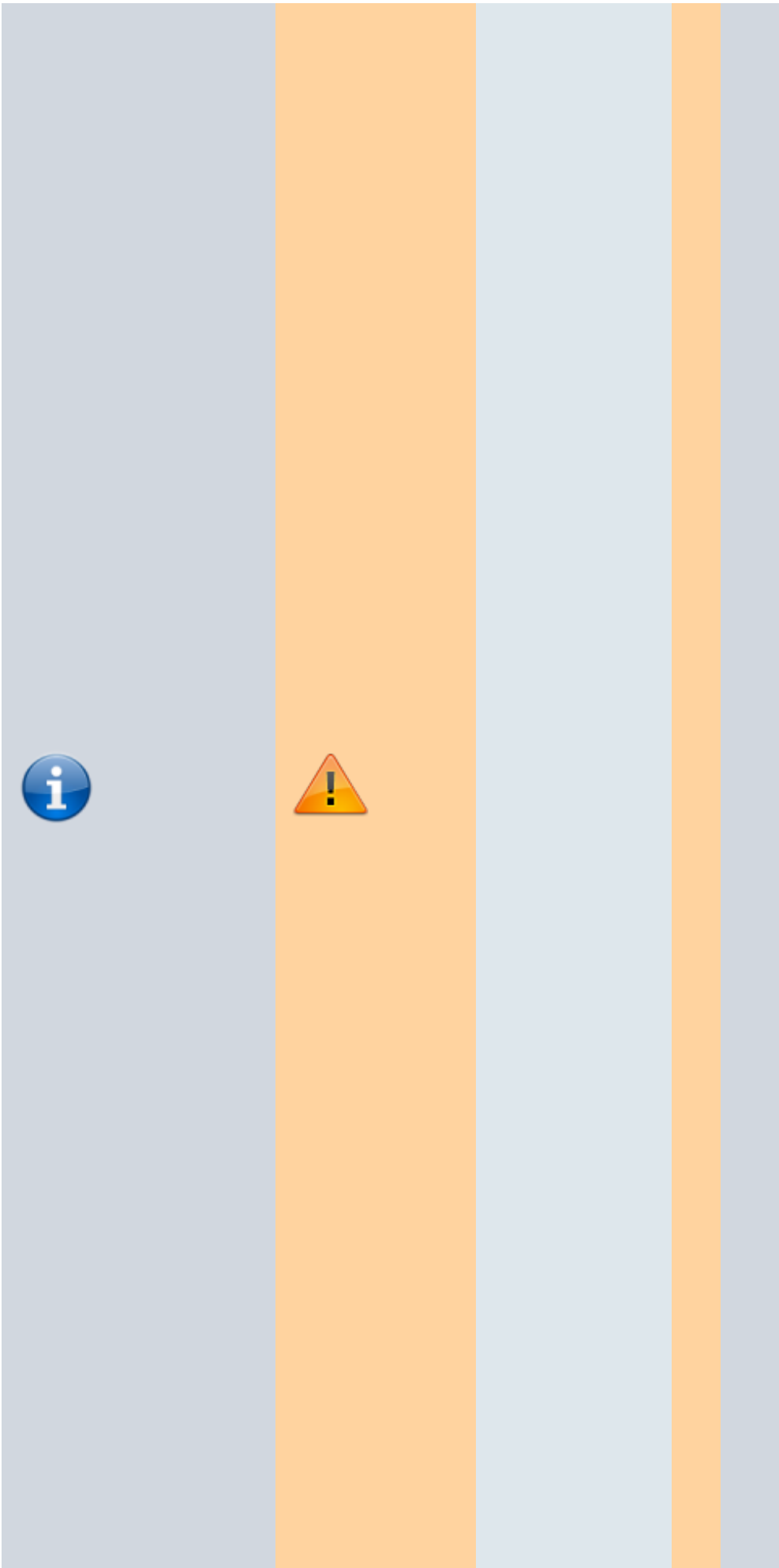
S  
e  
a  
u  
s  
i  
v  
o  
u  
s  
a  
v  
e  
z

2.

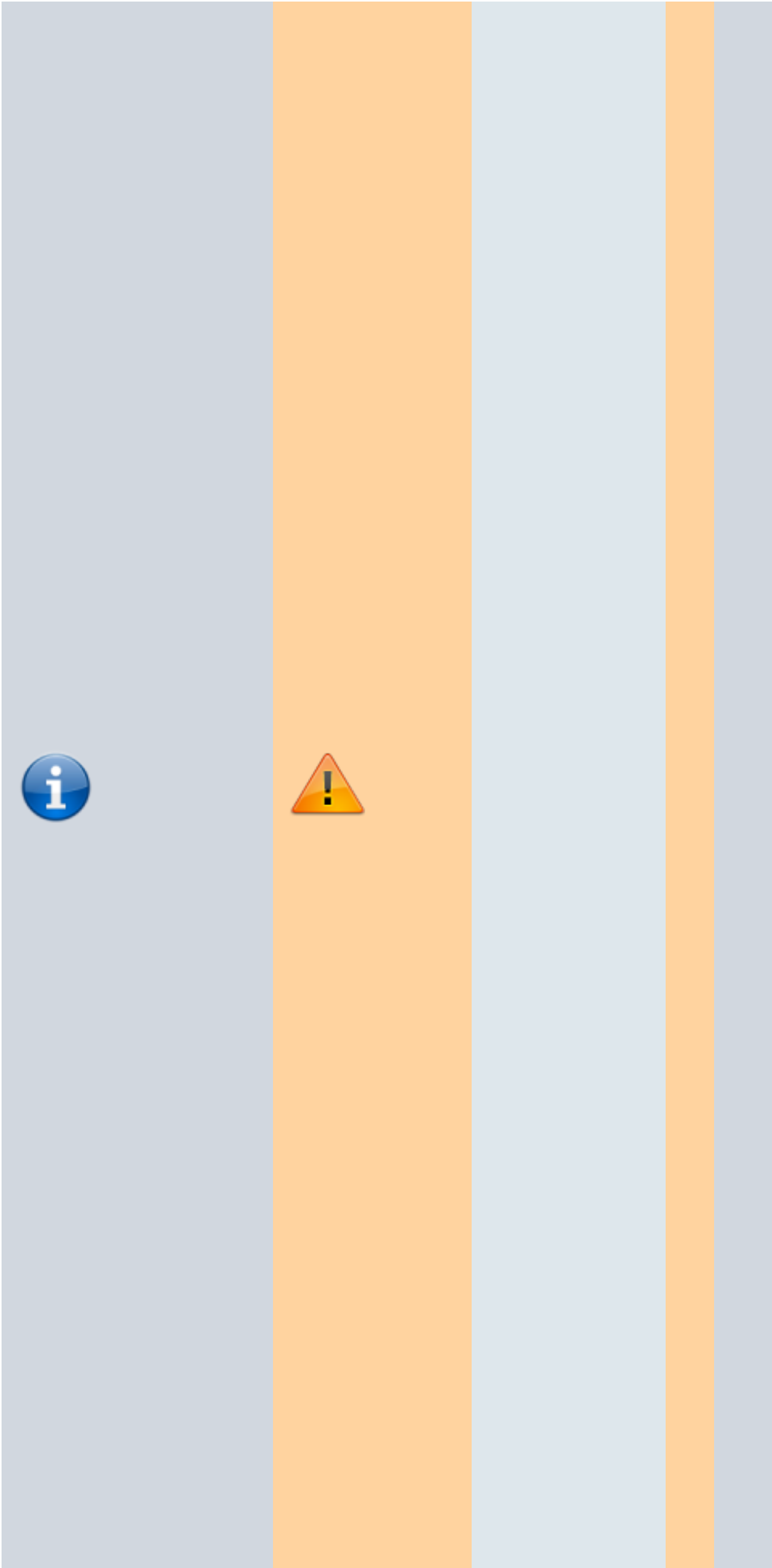
**C  
o  
n  
f  
i**



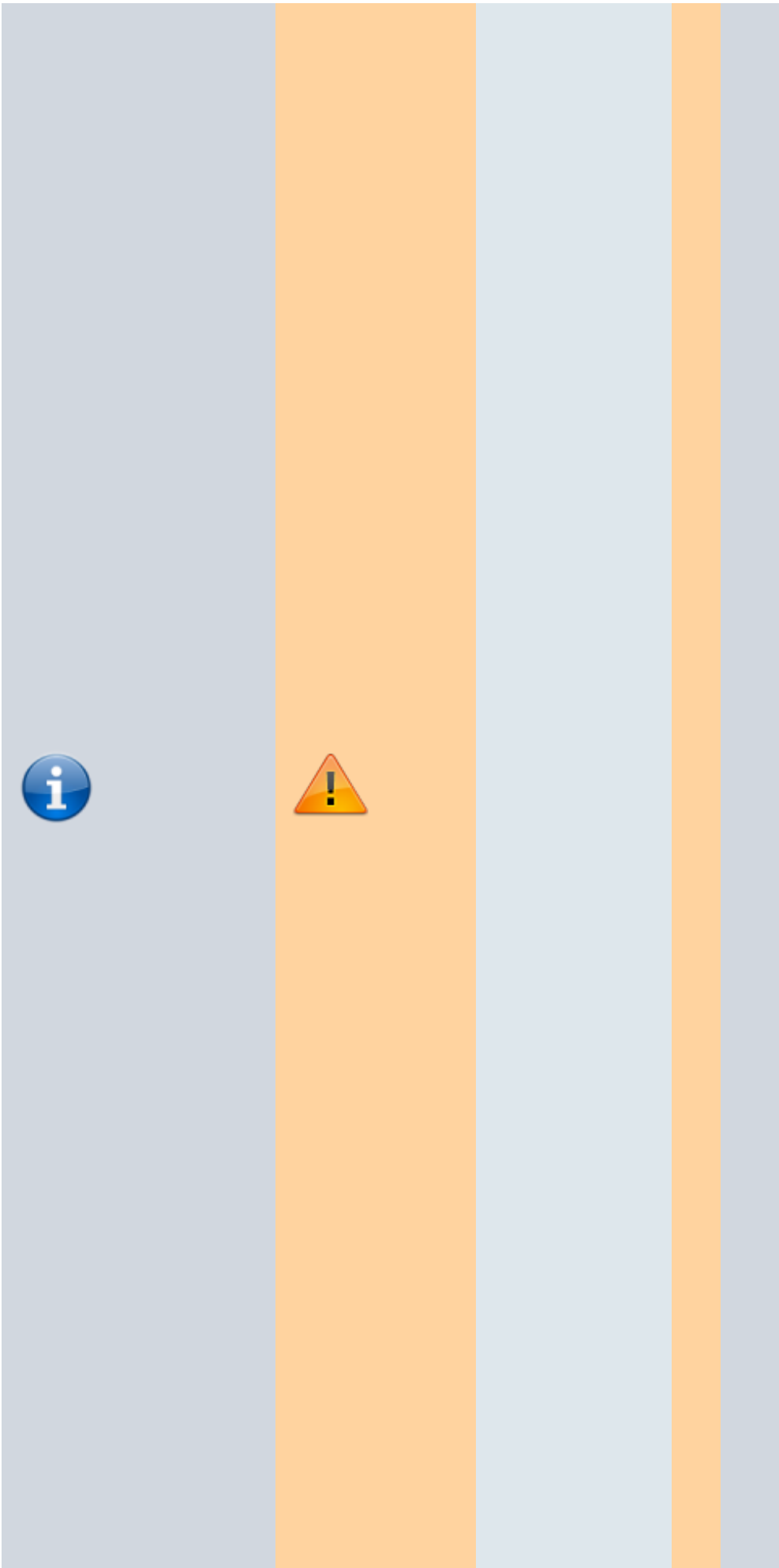
a  
n  
s  
d  
o  
u  
t  
e  
l  
e  
m  
e  
i  
l  
l  
e  
u  
r  
c  
h  
o  
i  
x  
)  
:  
L  
'  
a  
u  
t  
r  
e  
o  
p  
t  
i  
o  
n  
e  
s  
t  
d  
e  
c  
h  
a  
n  
g  
e  
r  
l



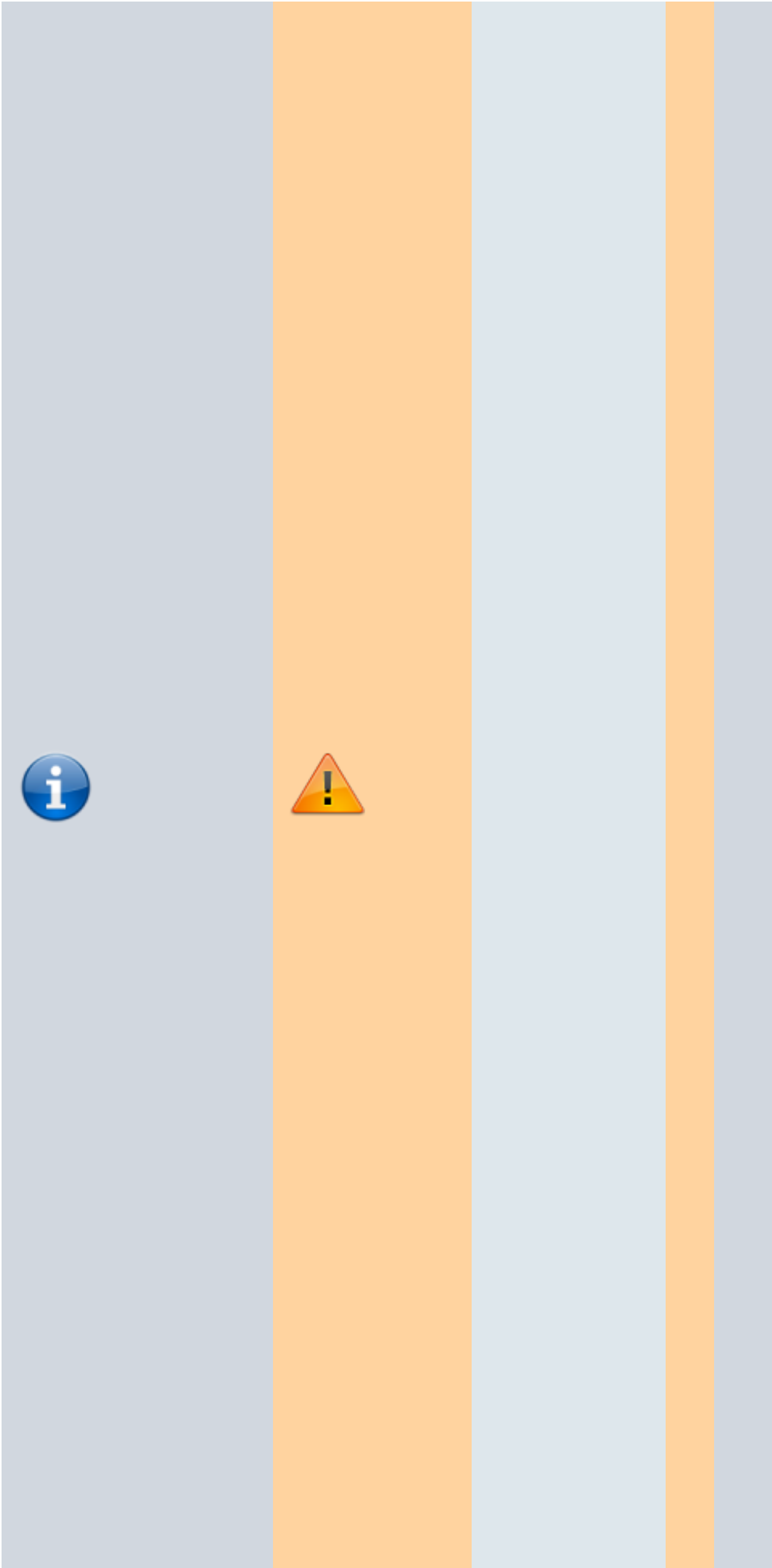
e  
s  
e  
r  
v  
e  
u  
r  
D  
N  
S  
d  
e  
v  
o  
t  
r  
e  
s  
e  
r  
v  
e  
u  
r  
D  
H  
C  
P  
. D  
a  
n  
s  
l  
a  
c  
o  
n  
f  
i  
g  
u  
r  
a  
t  
i  
o  
n  
D  
H



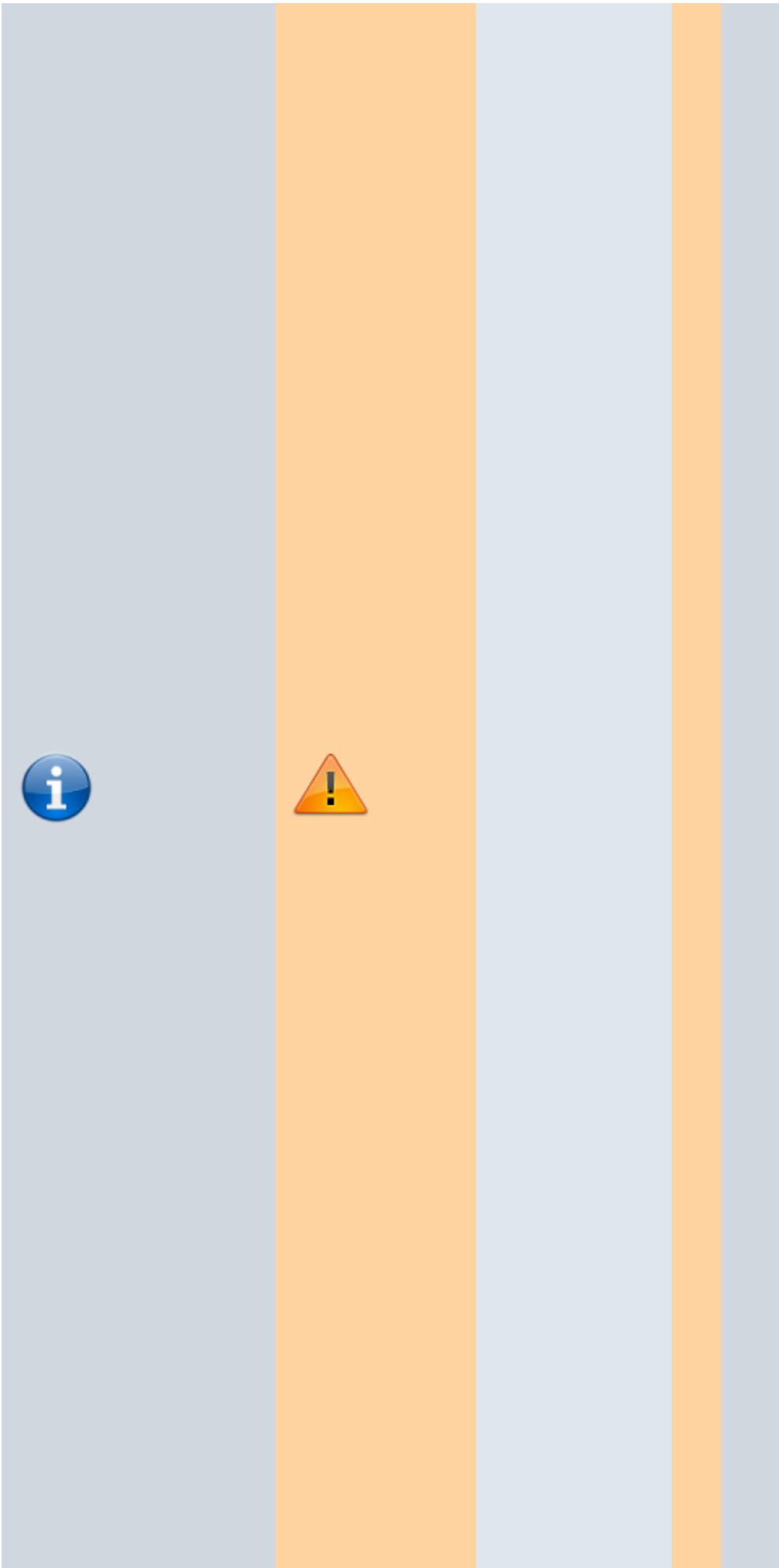
C  
P  
,  
v  
o  
u  
s  
p  
o  
u  
v  
e  
z  
c  
h  
o  
i  
s  
i  
r  
l  
a  
p  
l  
a  
g  
e  
l  
P  
e  
t  
l  
e  
s  
e  
r  
v  
e  
u  
r  
D  
N  
S  
e  
n  
v  
o  
y  
é  
s  
a



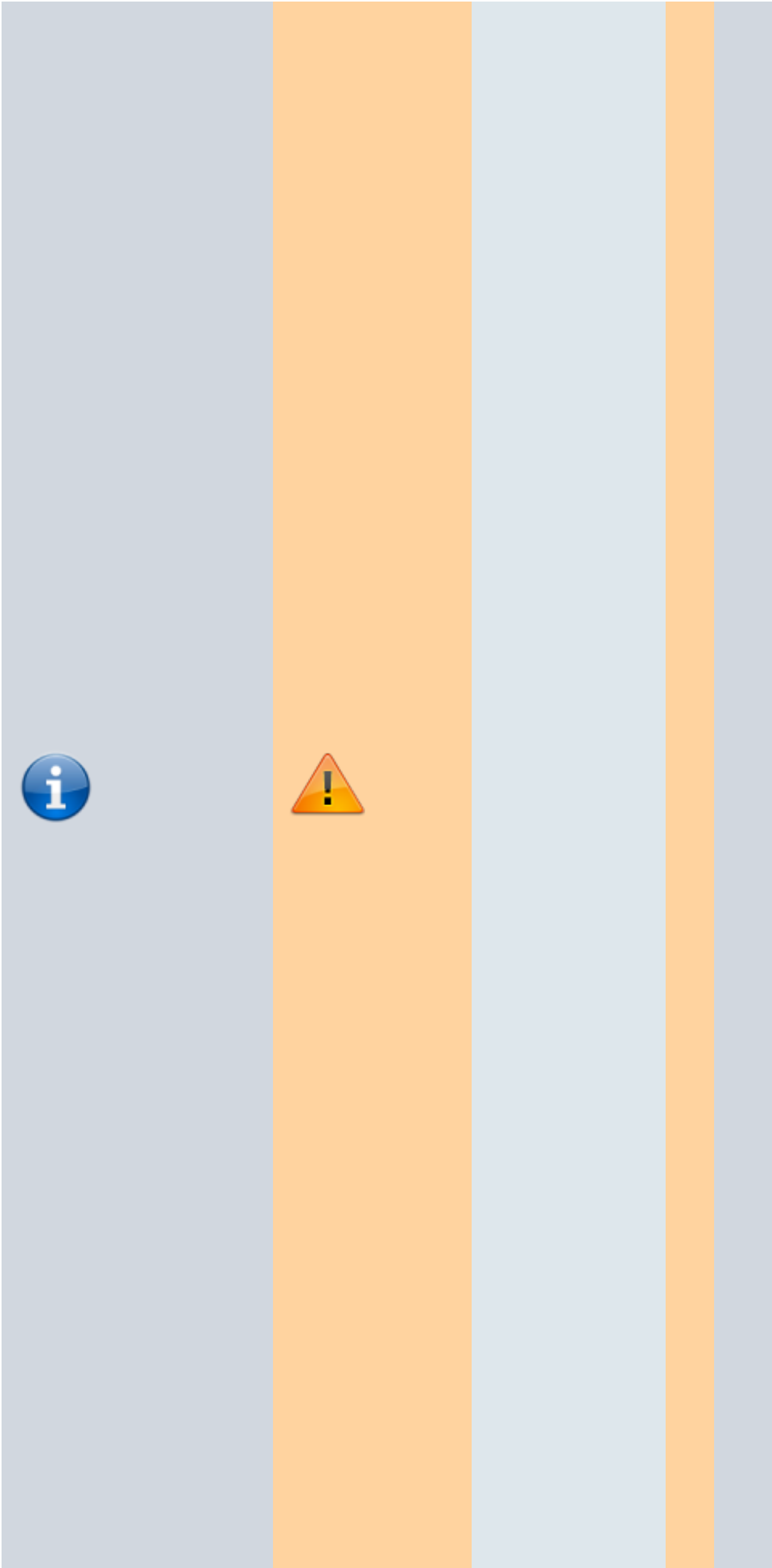
u  
x  
c  
l  
i  
e  
n  
t  
s  
.  
C  
e  
l  
a  
f  
o  
n  
c  
t  
i  
o  
n  
n  
e  
r  
a  
d  
i  
r  
e  
c  
t  
e  
m  
e  
n  
t  
a  
v  
e  
c  
t  
o  
u  
s  
v  
o  
s  
a  
p



p  
a  
r  
e  
i  
l  
s  
,  
y  
c  
o  
m  
p  
r  
i  
s  
l  
e  
s  
s  
m  
a  
r  
t  
p  
h  
o  
n  
e  
s  
. S  
i  
v  
o  
u  
s  
c  
h  
o  
i  
s  
s  
e  
z  
c  
e  
t  
t

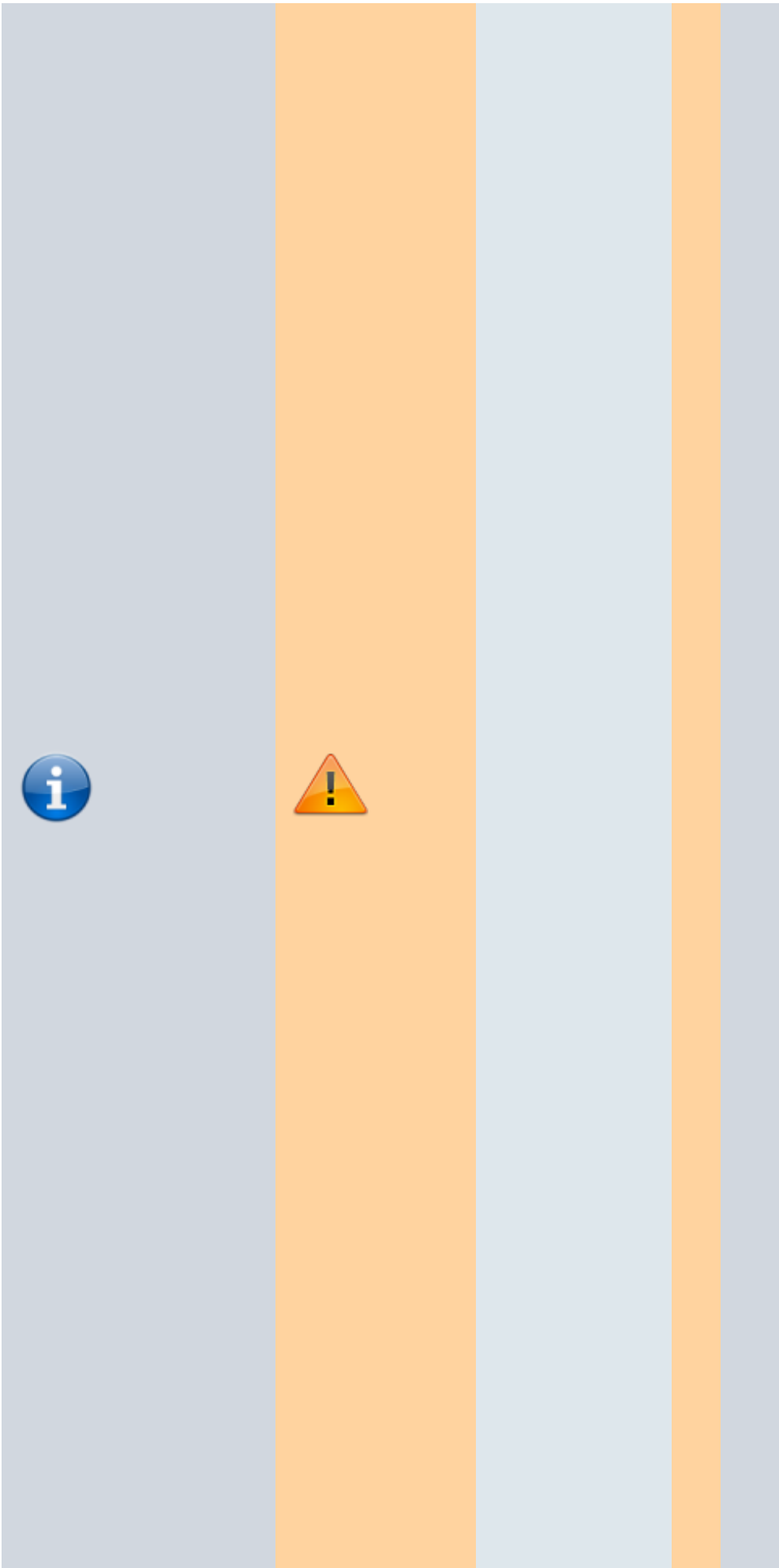


e  
o  
p  
t  
i  
o  
n  
,  
'  
n  
'  
o  
u  
b  
l  
i  
e  
z  
p  
a  
s  
d  
e  
d  
é  
f  
i  
n  
i  
r  
m  
a  
n  
u  
e  
l  
l  
e  
m  
e  
n  
t  
u  
n  
s  
e  
r  
v  
e  
u  
r  
D

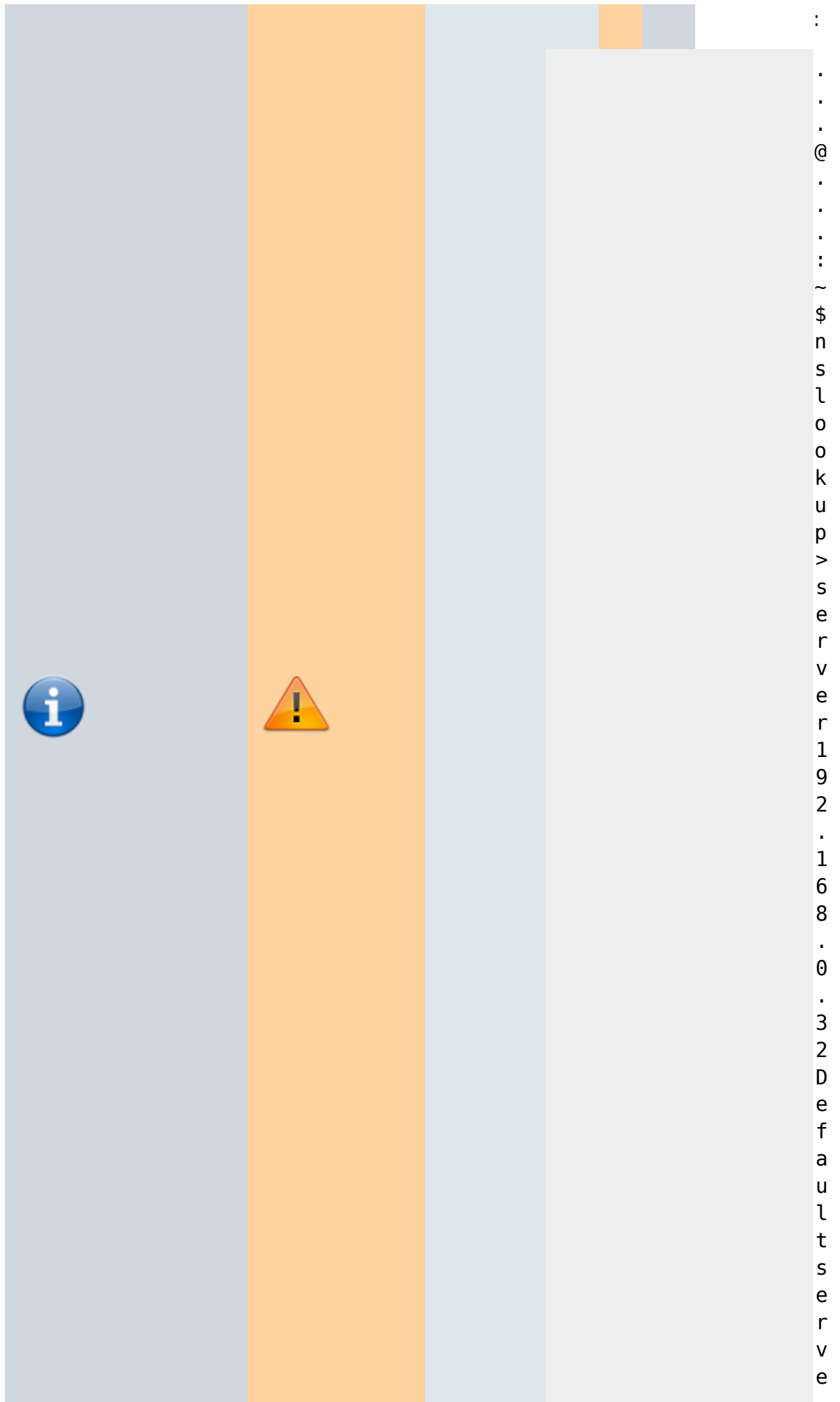


N  
S  
e  
x  
t  
e  
r  
n  
e  
s  
u  
r  
v  
o  
t  
r  
e  
R  
a  
s  
p  
b  
e  
r  
r  
y  
P  
i  
.

**U  
t  
i  
l  
i  
s  
a  
t  
i  
o  
n**





**T  
e  
s  
t  
s**  
V  
é  
r  
i  
f  
i  
e  
z  
q  
u  
e  
l  
e  
s  
e  
r  
v  
e  
u  
r  
D  
N  
S  
f  
o  
n  
c  
t  
i  
o  
n  
n  
e  
c  
o  
r  
r  
e  
c  
t  
e  
m  
e  
n  
t

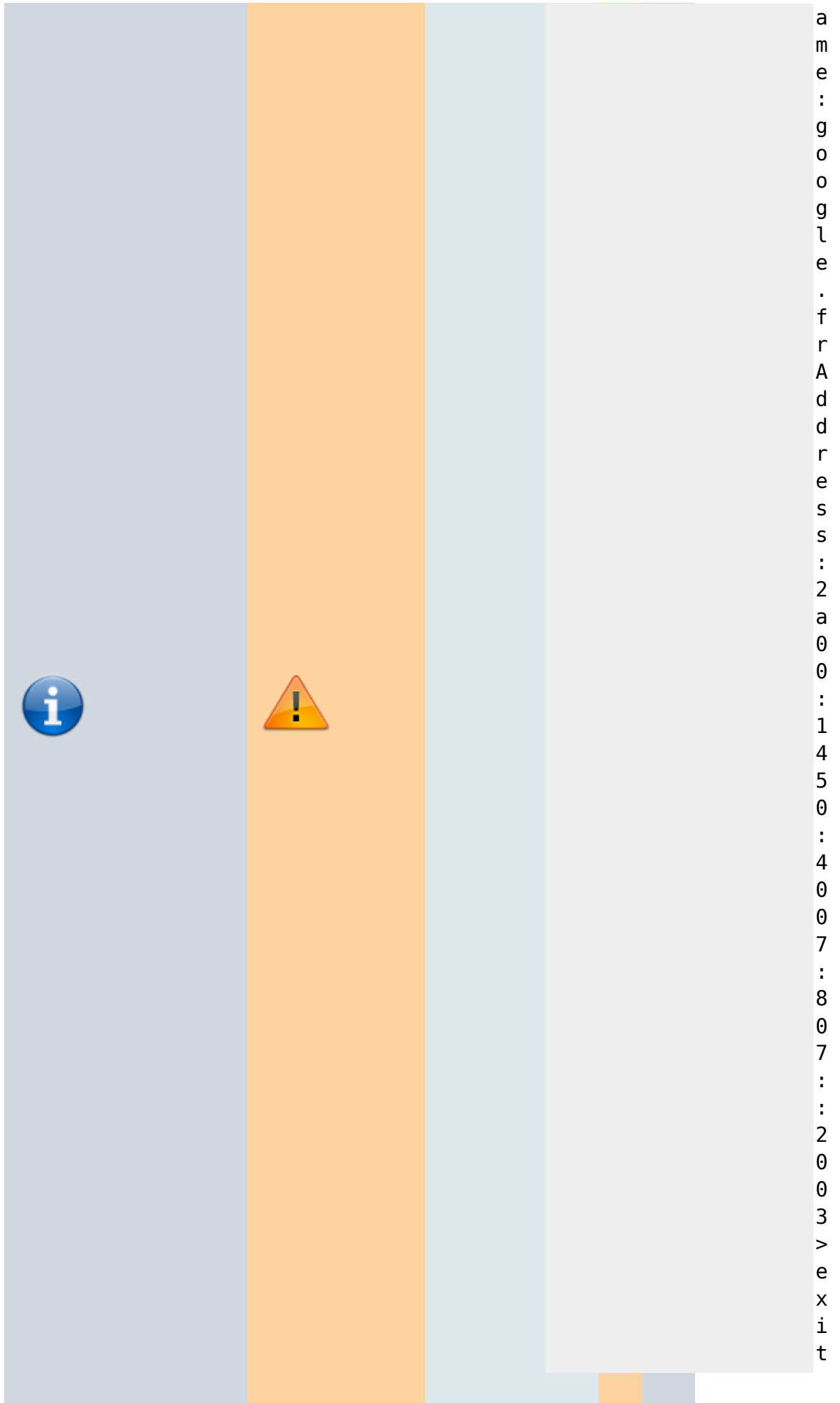


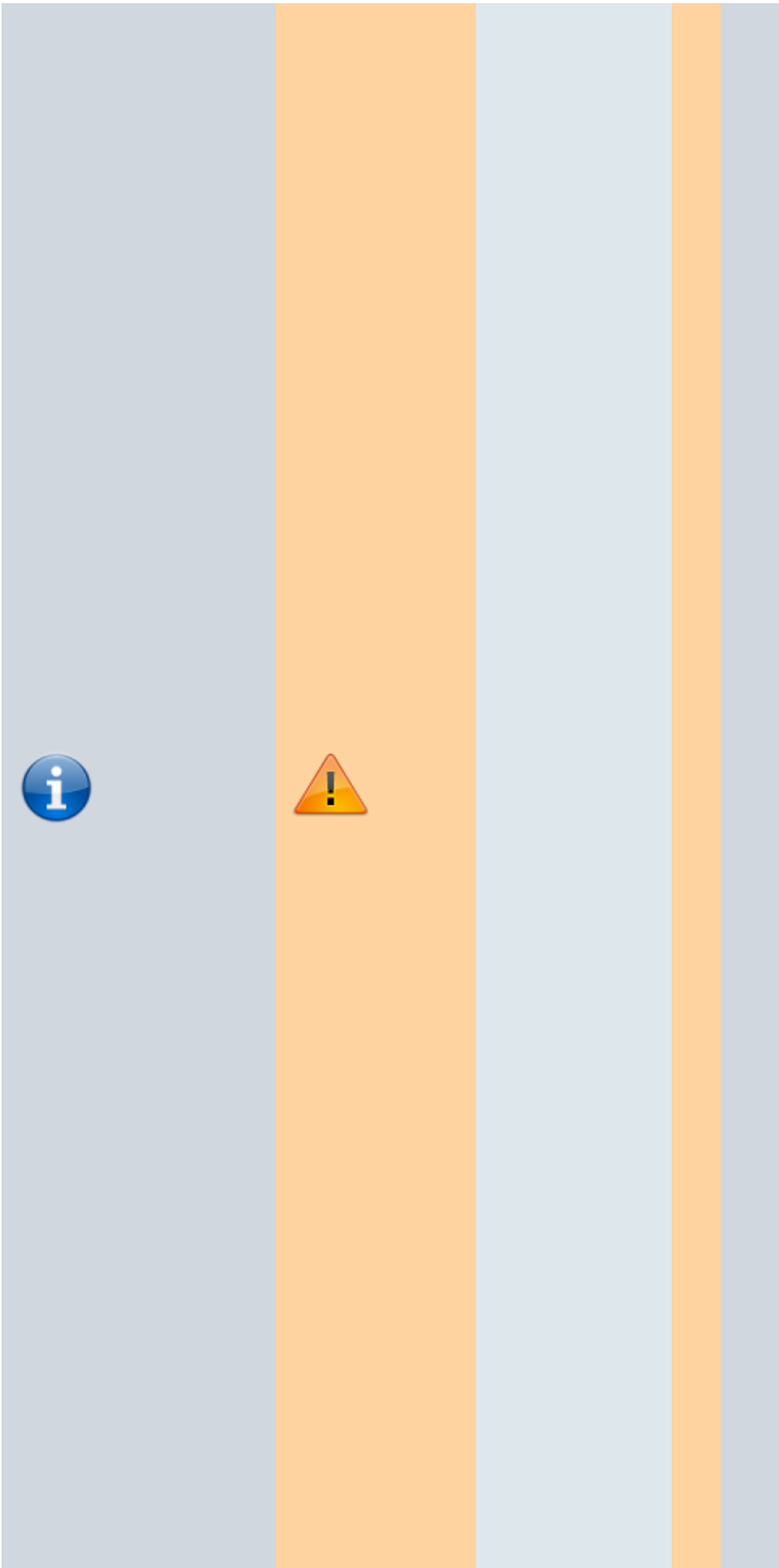
r : 1 9 2 . 1 6 8 . 0 . 3 2 A d d r e s s : 1 9 2 . 1 6 8 . 0 . 3 2 # 5 3 > g o o g l e . f r S e r

ver : 192.168.0.32  
Addresses : 192.168.0.32  
#53

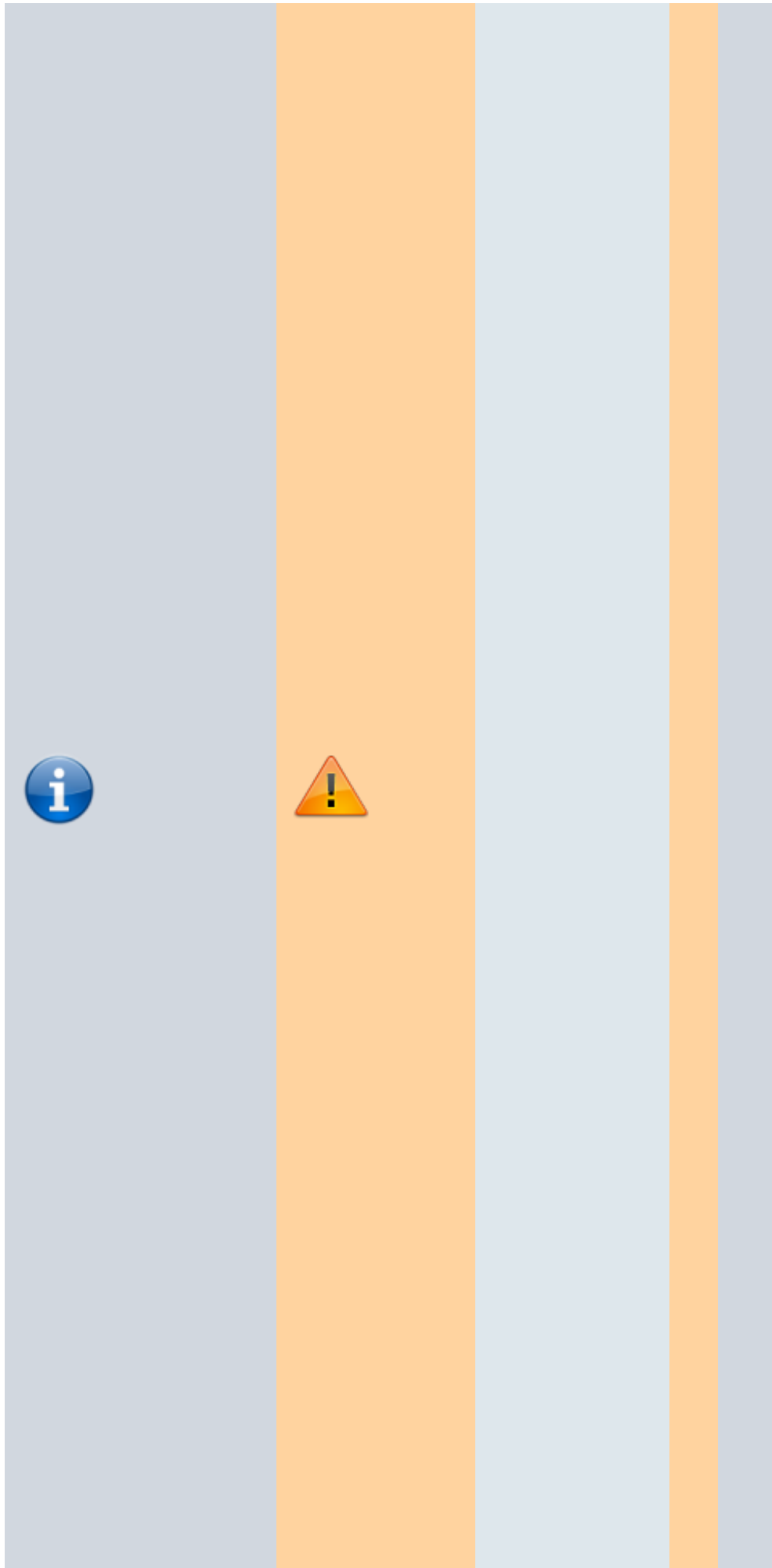
			
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	--	--

t  
a  
t  
i  
v  
e  
a  
n  
s  
w  
e  
r  
:  
N  
a  
m  
e  
:  
g  
o  
o  
g  
l  
e  
.  
f  
r  
A  
d  
d  
r  
e  
s  
s  
:  
2  
1  
6  
.  
5  
8  
.  
2  
0  
9  
.  
2  
2  
7  
N

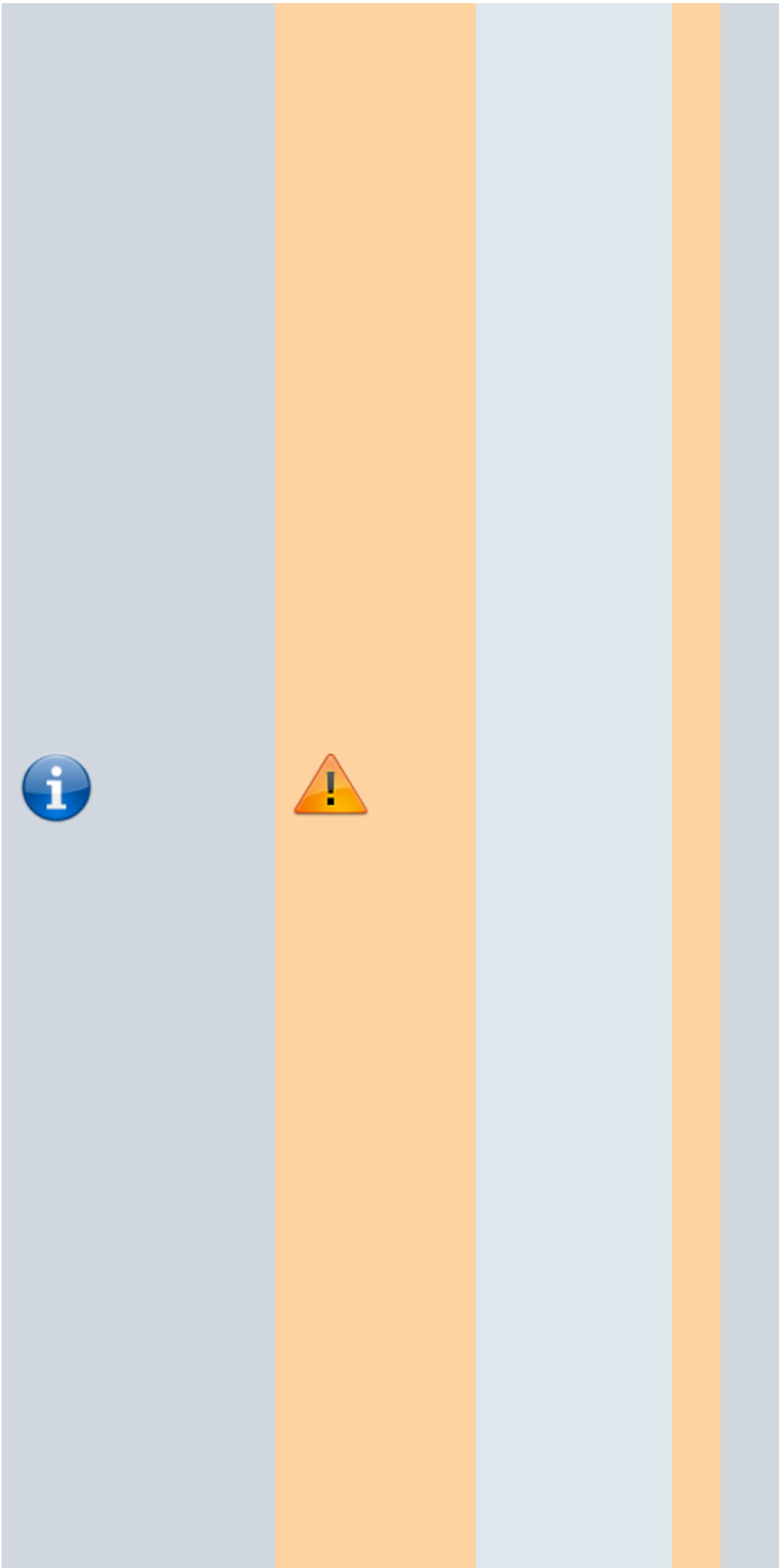




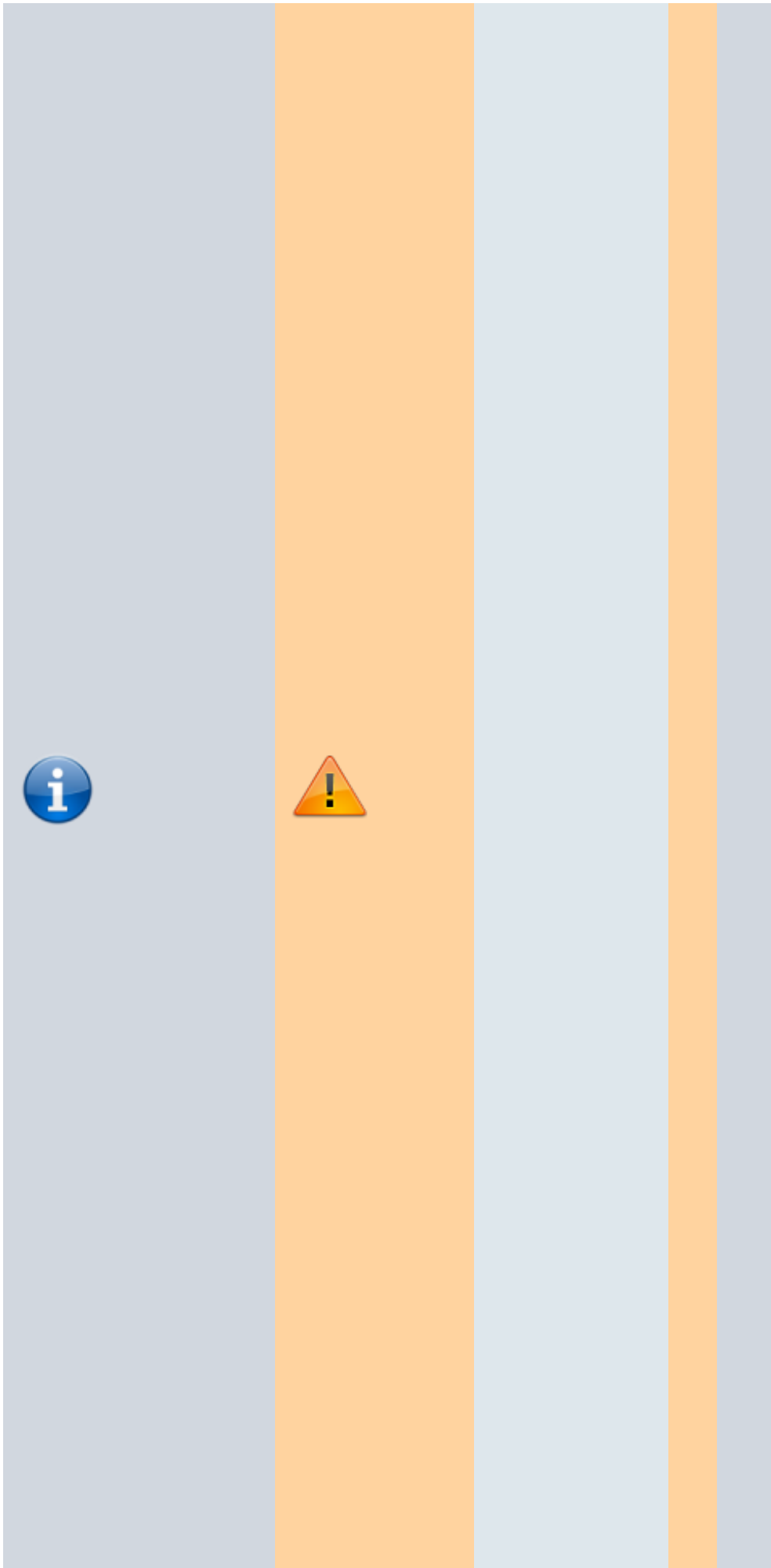
o  
s  
e  
r  
v  
e  
r  
1  
9  
2  
.  
1  
6  
8  
.  
0  
.  
3  
2  
:  
a  
d  
r  
e  
s  
s  
e  
d  
u  
R  
a  
s  
p  
b  
e  
r  
r  
y  
o  
g  
o  
o  
g  
l  
e  
.  
f  
r  
:  
l



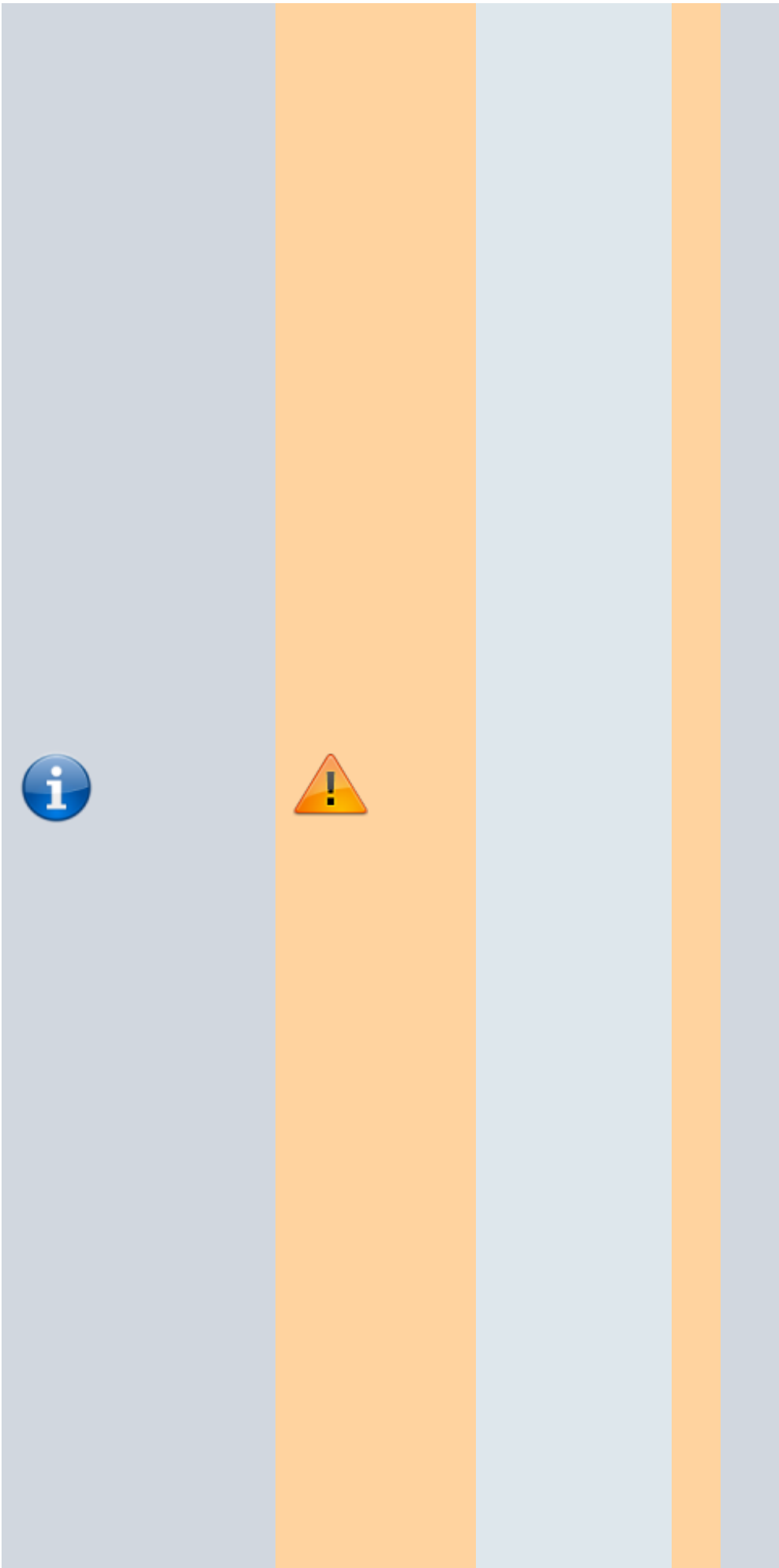
I  
m  
o  
n  
t  
r  
e  
u  
n  
e  
a  
d  
r  
e  
s  
s  
e  
I  
P  
c  
o  
r  
r  
e  
s  
p  
o  
n  
d  
a  
n  
t  
a  
u  
n  
o  
m  
d  
e  
d  
o  
m  
a  
i  
n  
e  
→  
V  
o  
t  
r



e  
s  
e  
r  
v  
e  
u  
r  
D  
N  
S  
f  
o  
n  
c  
t  
i  
o  
n  
n  
e  
.  
o  
V  
o  
u  
s  
p  
o  
u  
v  
e  
z  
é  
g  
a  
l  
e  
m  
e  
n  
t  
e  
s  
s  
a  
y  
e  
r  
d



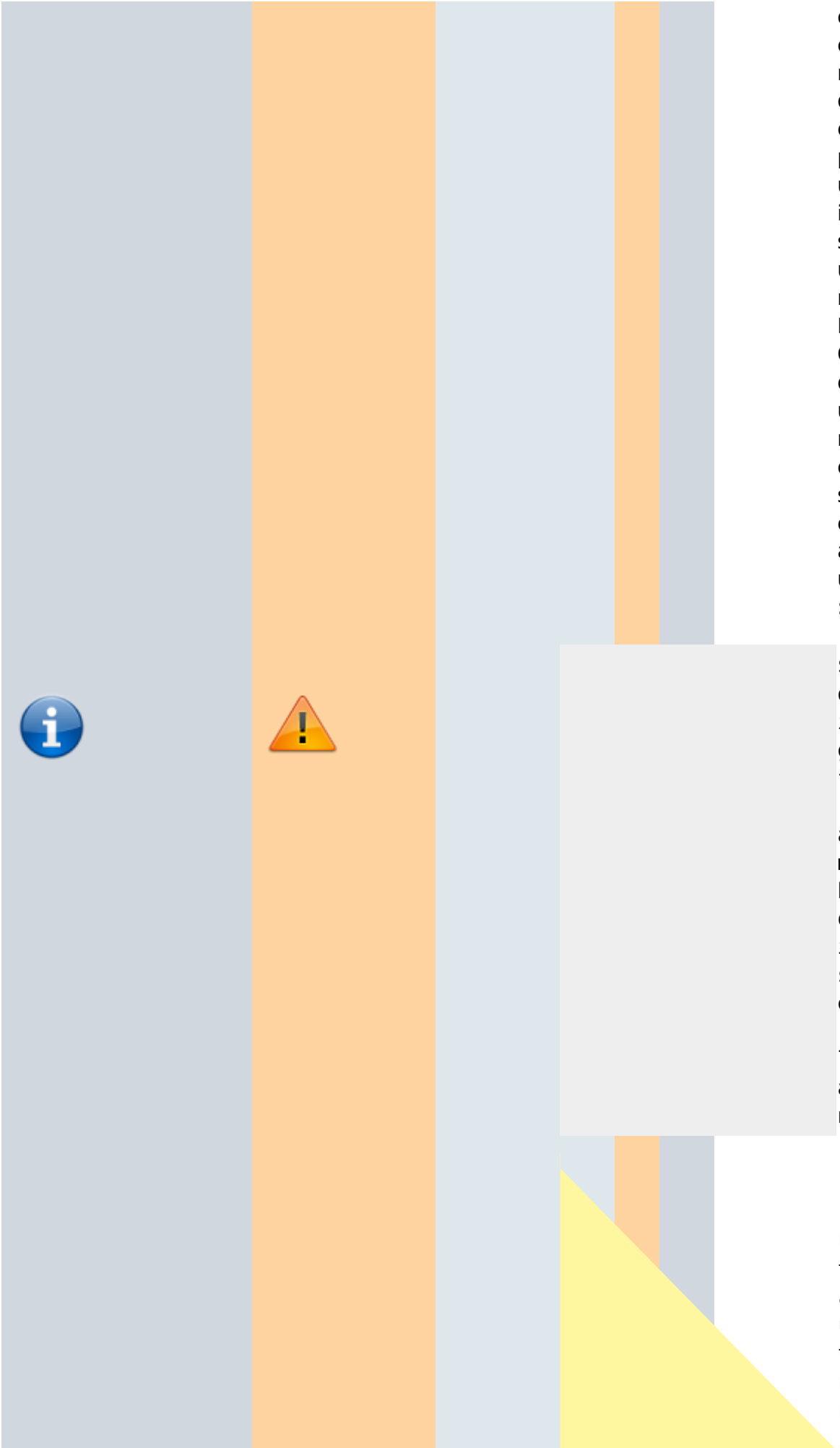
e  
r  
é  
s  
o  
u  
d  
r  
e  
l  
·  
h  
ô  
t  
e  
l  
o  
c  
a  
l  
(  
e  
x  
:  
k  
o  
d  
i  
·  
l  
o  
c  
a  
l  
·  
m  
e  
)  
p  
o  
u  
r  
v  
é  
r  
i  
f  
i  
e  
r  
q  
u



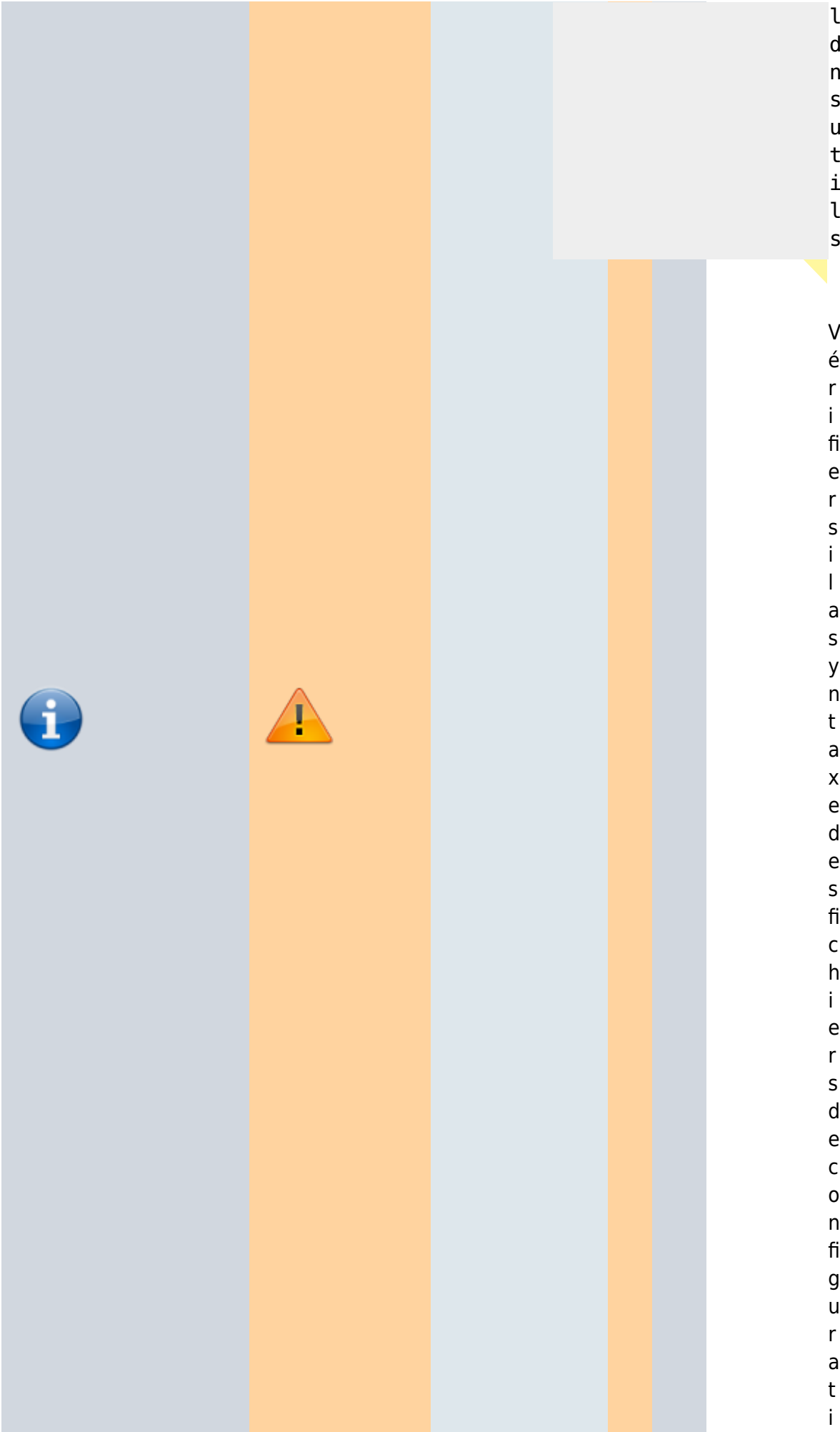
e  
c  
e  
l  
a  
f  
o  
n  
c  
t  
i  
o  
n  
n  
e  
a  
u  
s  
s  
i

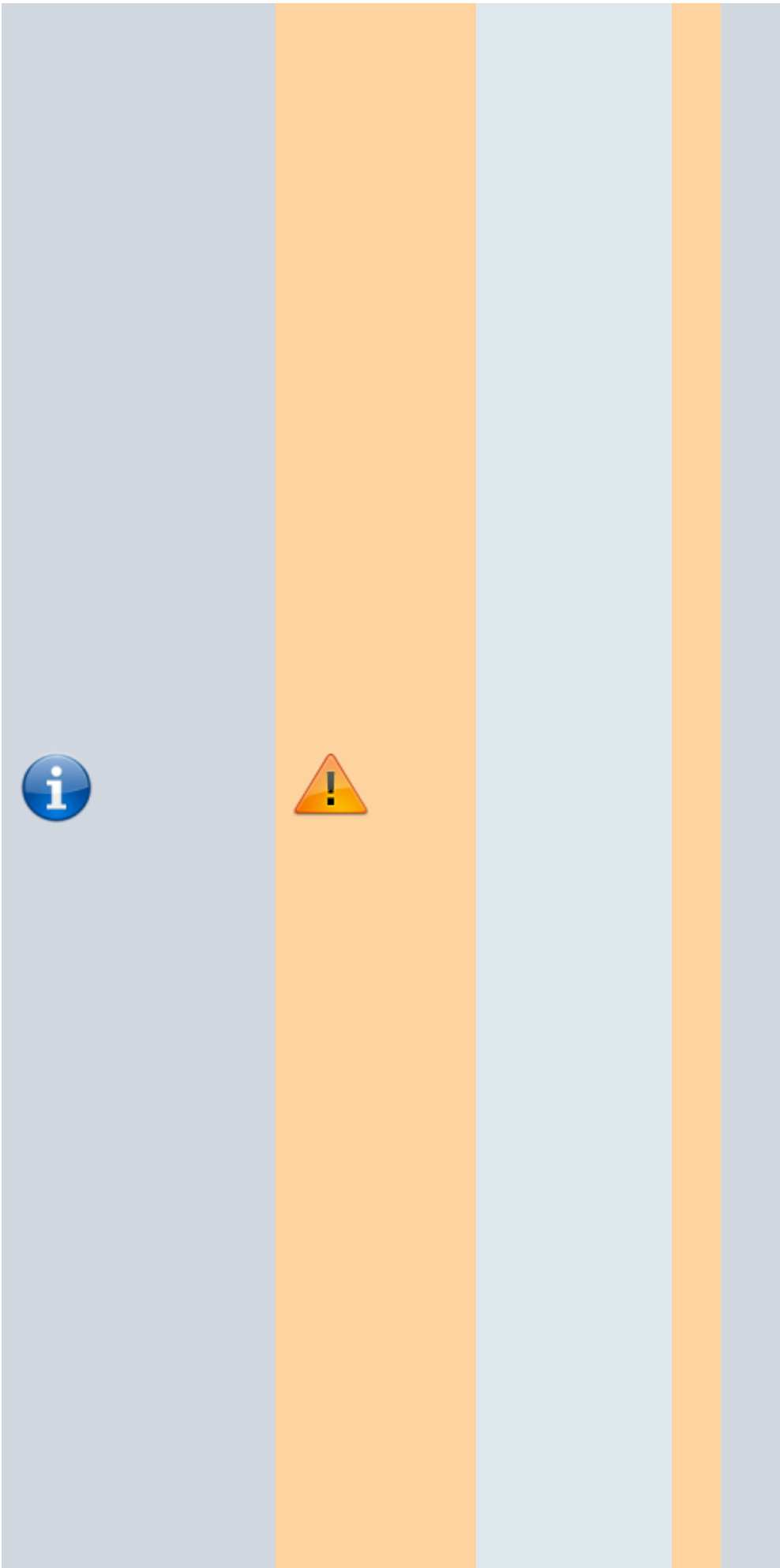
**V  
é  
r  
i  
f  
i  
c  
a  
t  
i  
o  
n**

P  
o  
u  
r  
v  
é  
r  
i  
f  
i  
e  
r  
,  
l  
a  
n

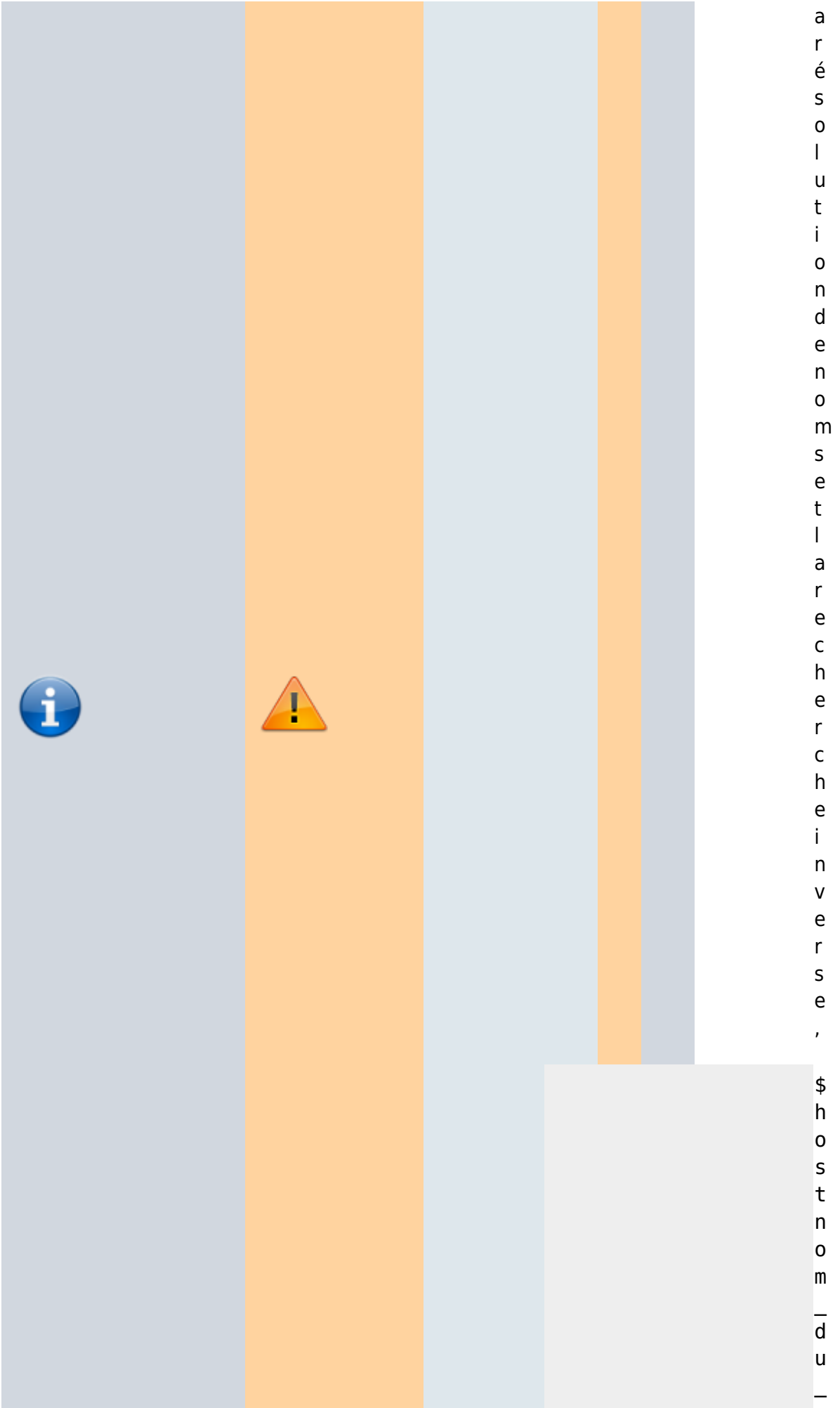


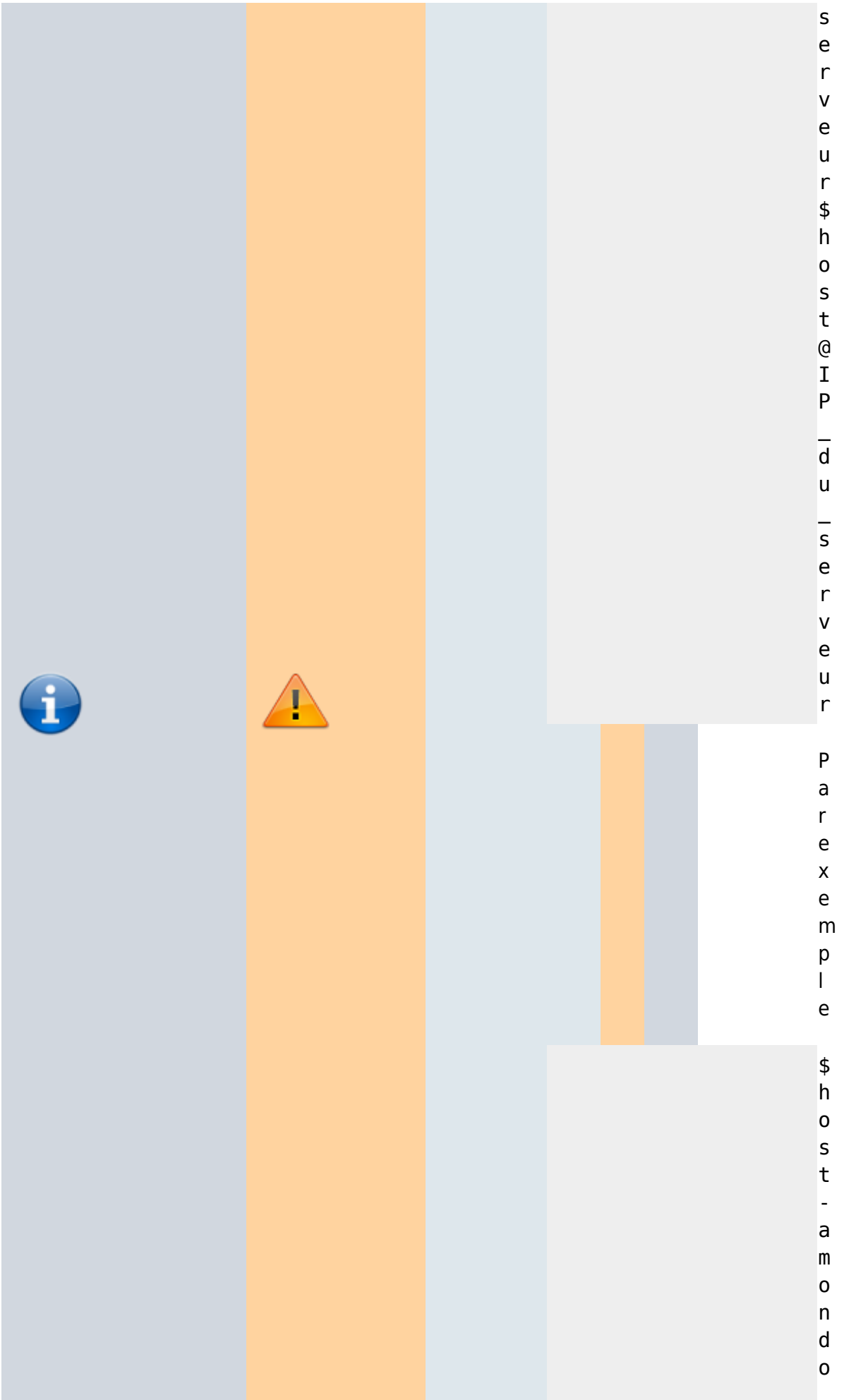
staller le paquet d'installation de source en console :  
\$ sudo apt install

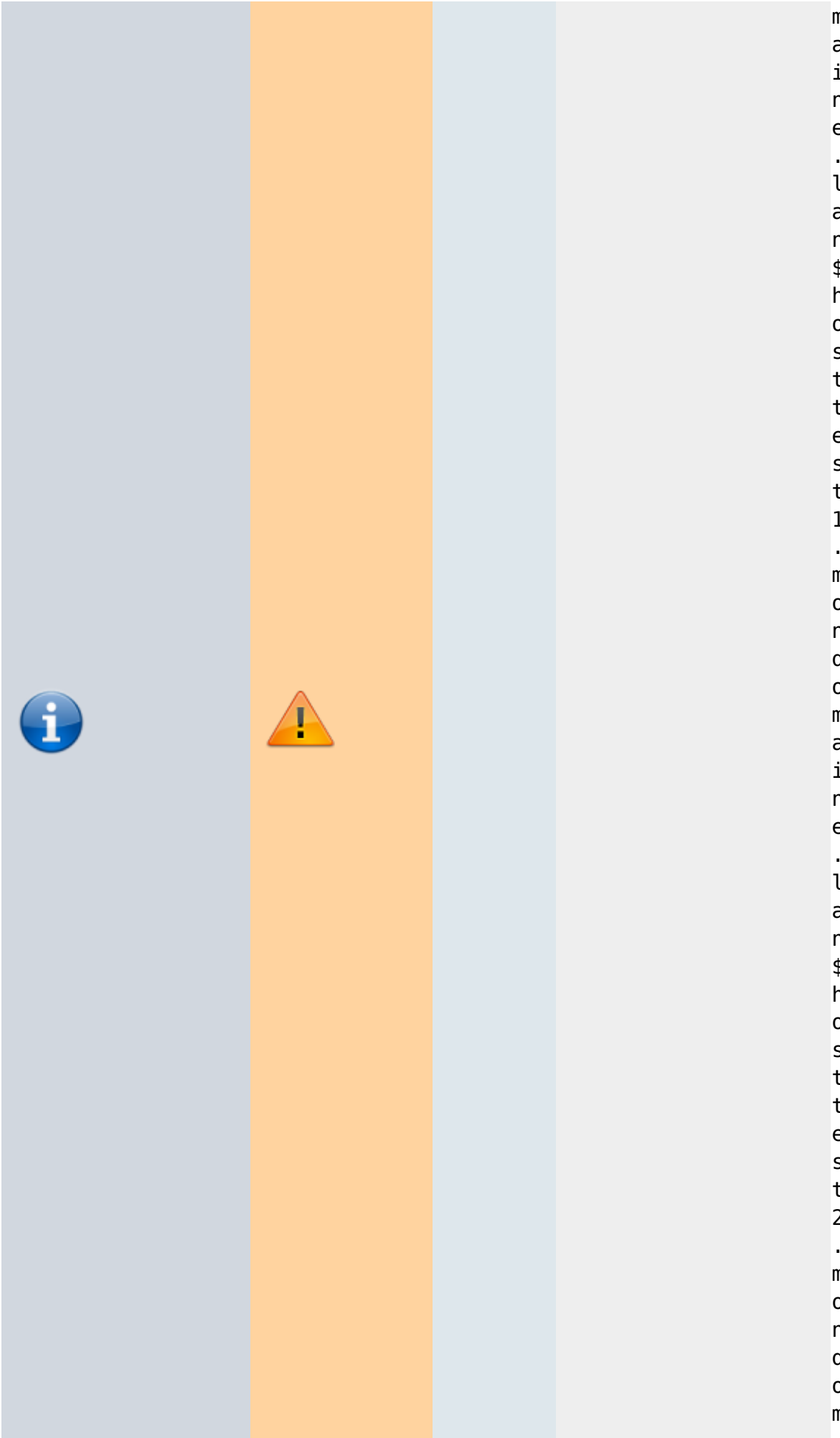




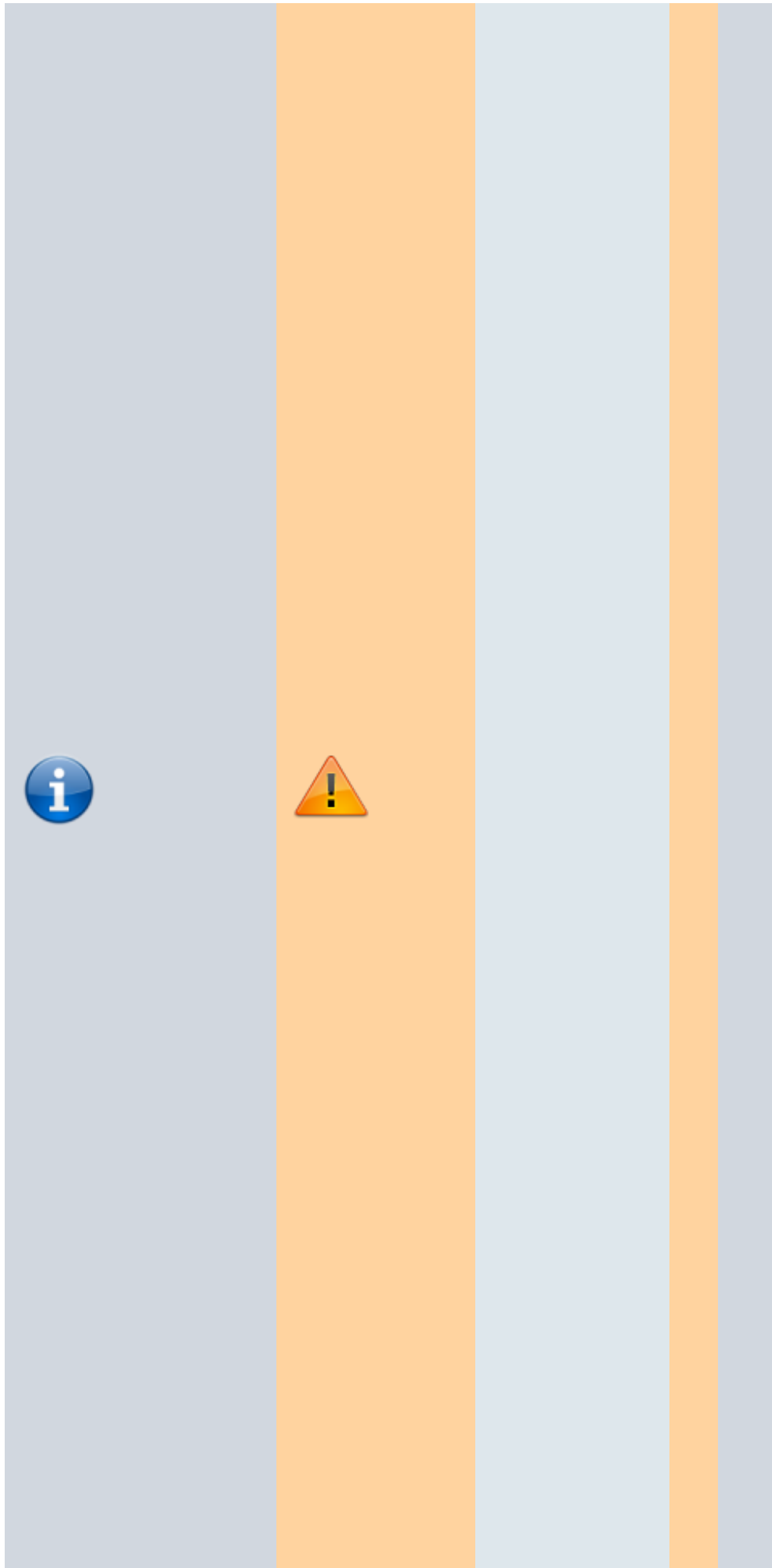
o  
n  
e  
s  
t  
c  
o  
r  
r  
e  
c  
t  
e  
a  
v  
e  
c  
l  
e  
s  
c  
o  
m  
m  
a  
n  
d  
e  
s  
s  
u  
i  
v  
a  
n  
t  
e  
s  
:  
P  
o  
u  
r  
t  
e  
s  
t  
e  
r  
l



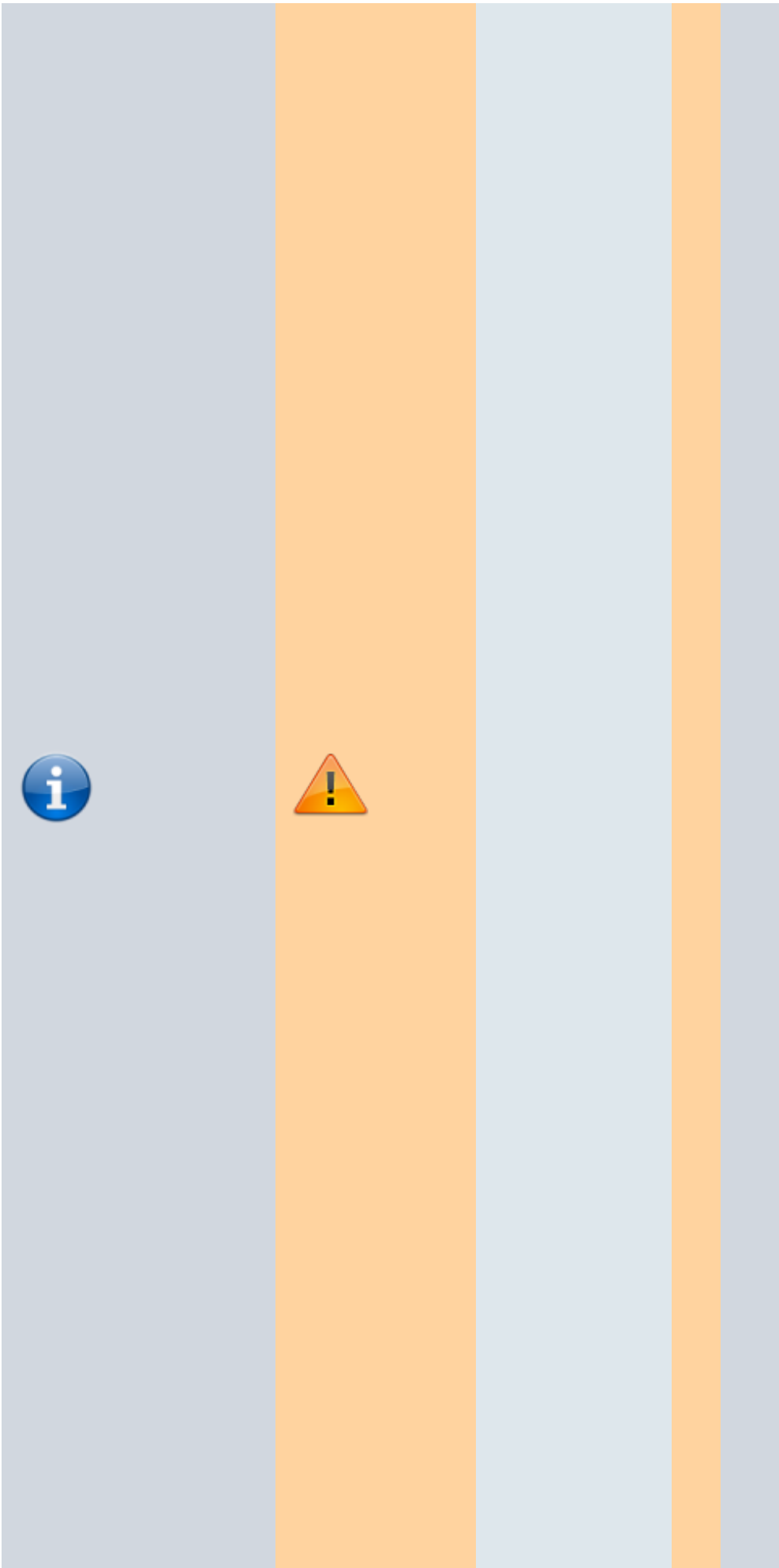




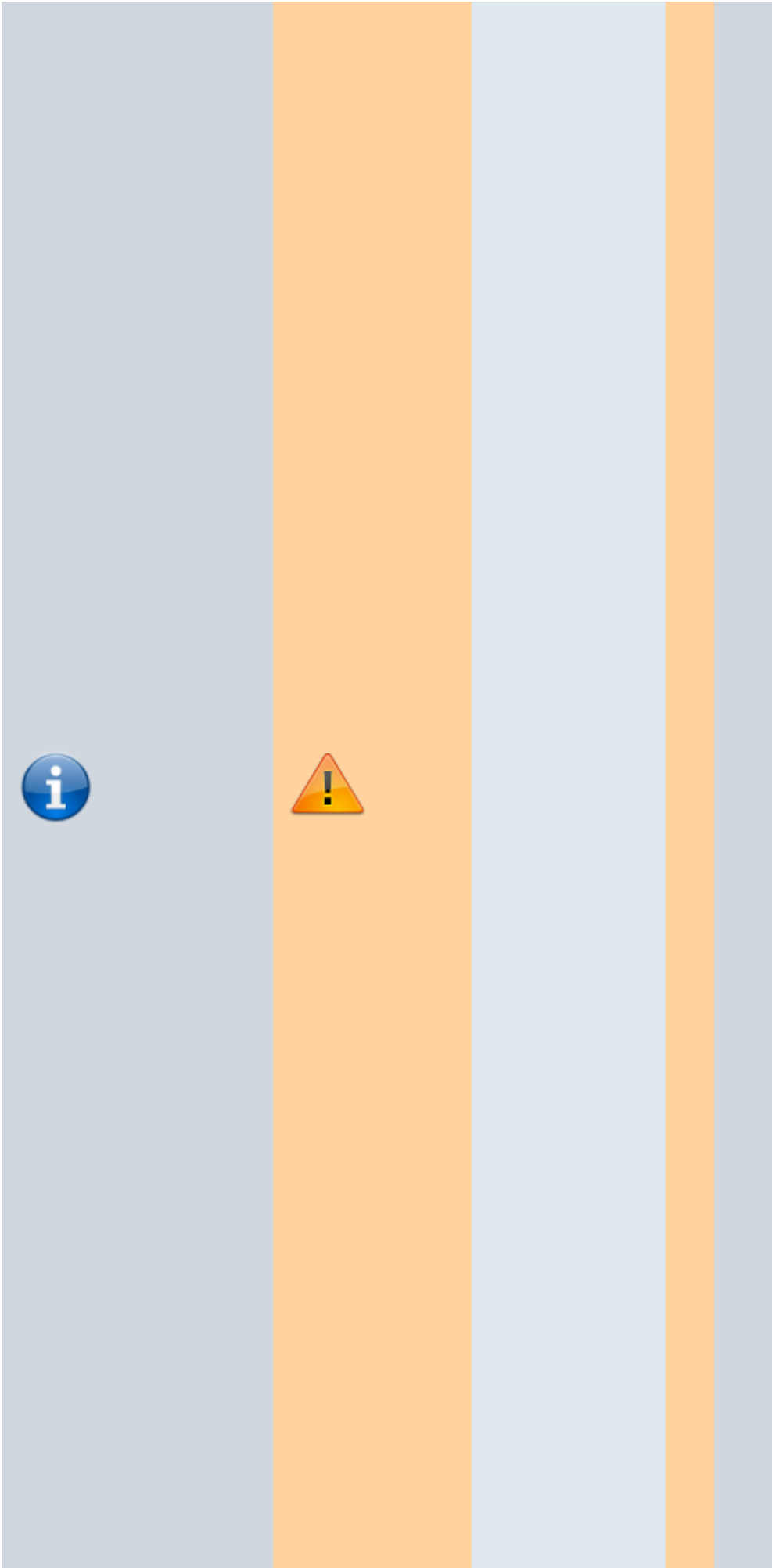
aine.lan  
\$hosttest3.mondomaine.lan  
Lacommande«nsioo



k  
u  
p  
»  
(  
N  
a  
m  
e  
S  
y  
s  
t  
e  
m  
L  
o  
o  
k  
U  
p  
)  
p  
e  
r  
m  
e  
t  
t  
,  
i  
n  
t  
e  
r  
r  
o  
g  
e  
r  
u  
n  
s  
e  
r  
v  
e  
u  
r  
d  
e

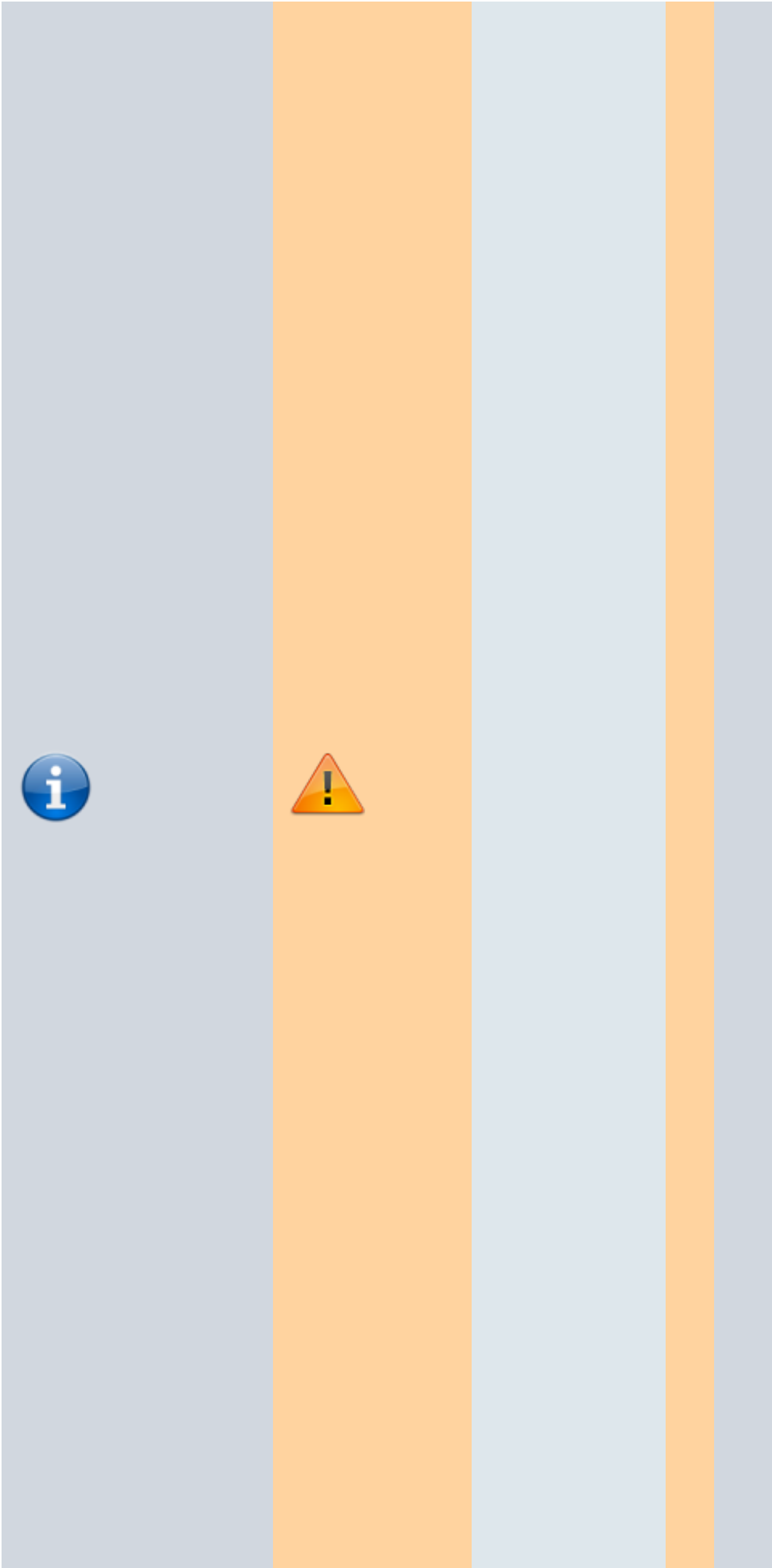


n  
o  
m  
s  
p  
o  
u  
r  
o  
b  
t  
e  
n  
i  
r  
l  
e  
s  
i  
n  
f  
o  
r  
m  
a  
t  
i  
o  
n  
s  
c  
o  
n  
c  
e  
r  
n  
a  
n  
t  
u  
n  
d  
o  
m  
a  
i  
n  
e  
o



u  
u  
n  
h  
ô  
t  
e  
e  
t  
d  
i  
a  
g  
n  
o  
s  
t  
i  
q  
u  
e  
r  
l  
e  
s  
p  
r  
o  
b  
l  
è  
m  
e  
s  
d  
e  
c  
o  
n  
f  
i  
g  
u  
r  
a  
t  
i  
o  
n  
d  
u  
D

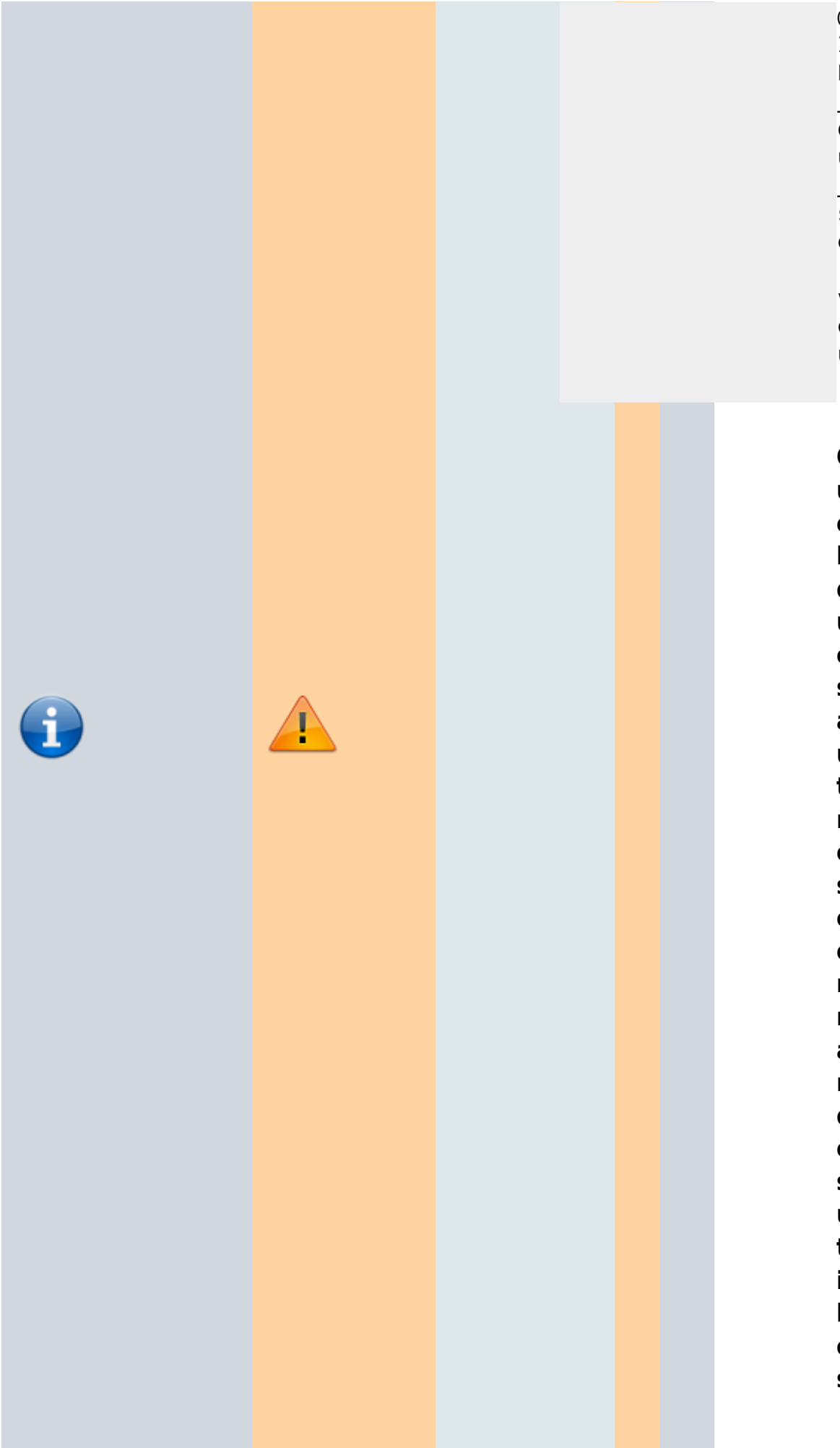
NSLOOKUP - du serveur \$NSLOOKUP@IP - du serveur



L  
a  
c  
o  
m  
m  
a  
n  
d  
e  
«  
d  
i  
g  
»  
p  
e  
r  
m  
e  
t  
s  
e  
n  
s  
i  
b  
l  
e  
m  
e  
n  
t  
l  
a  
m  
ê  
m  
e  
c  
h  
o  
s  
e  
q  
u  
e  
«  
n  
s  
i

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 is partially obscured by a vertical text strip on the far right edge of the page.

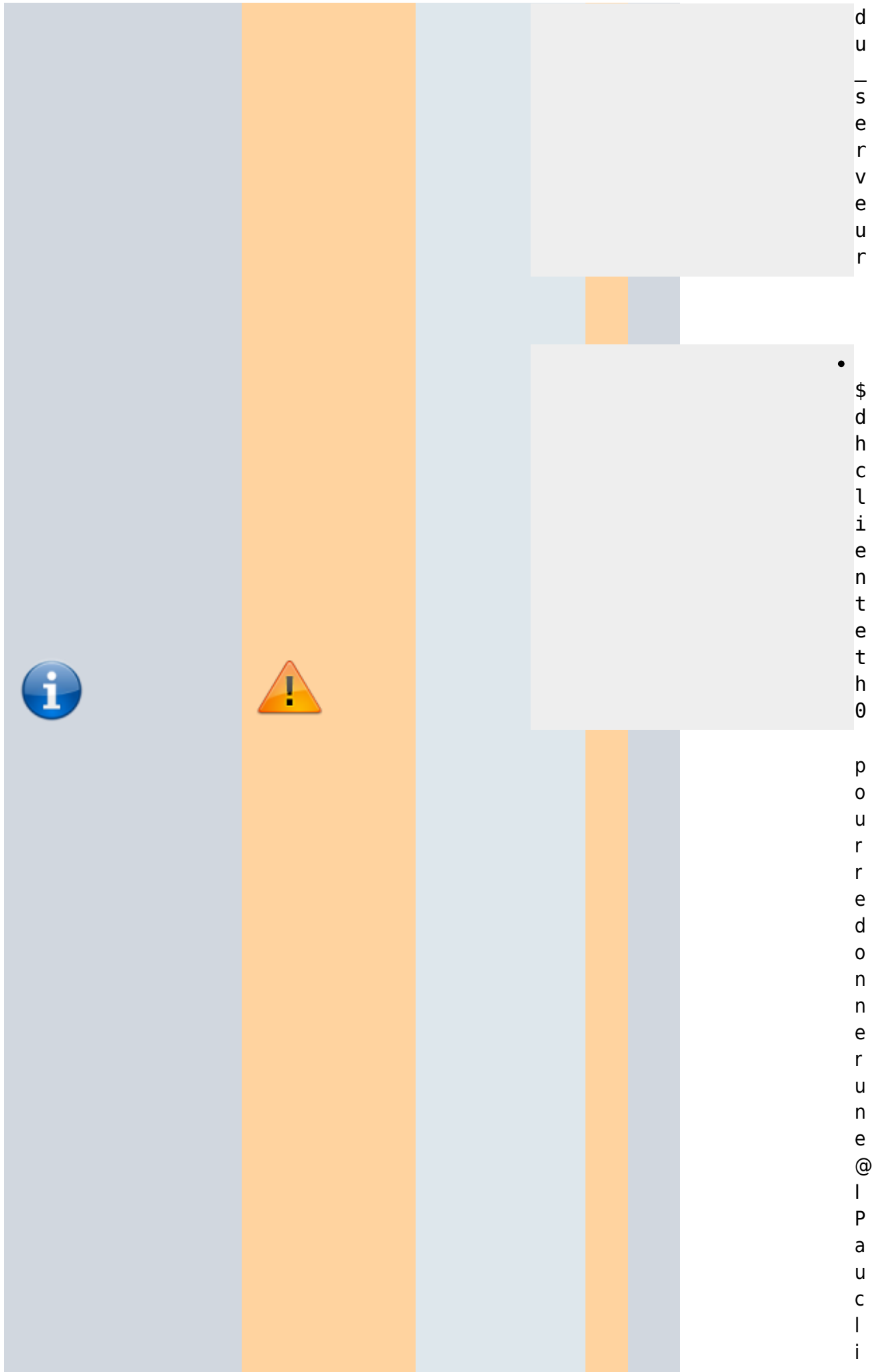
o  
o  
k  
u  
p  
»  
:  
\$  
d  
i  
g  
n  
o  
m  
-  
d  
u  
-  
s  
e  
r  
v  
e  
u  
r  
\$  
d  
i  
g  
n  
o  
m  
-  
d  
e  
-  
d  
o  
m  
a  
i  
n  
e  
\$  
d  
i  
g  
-  
x

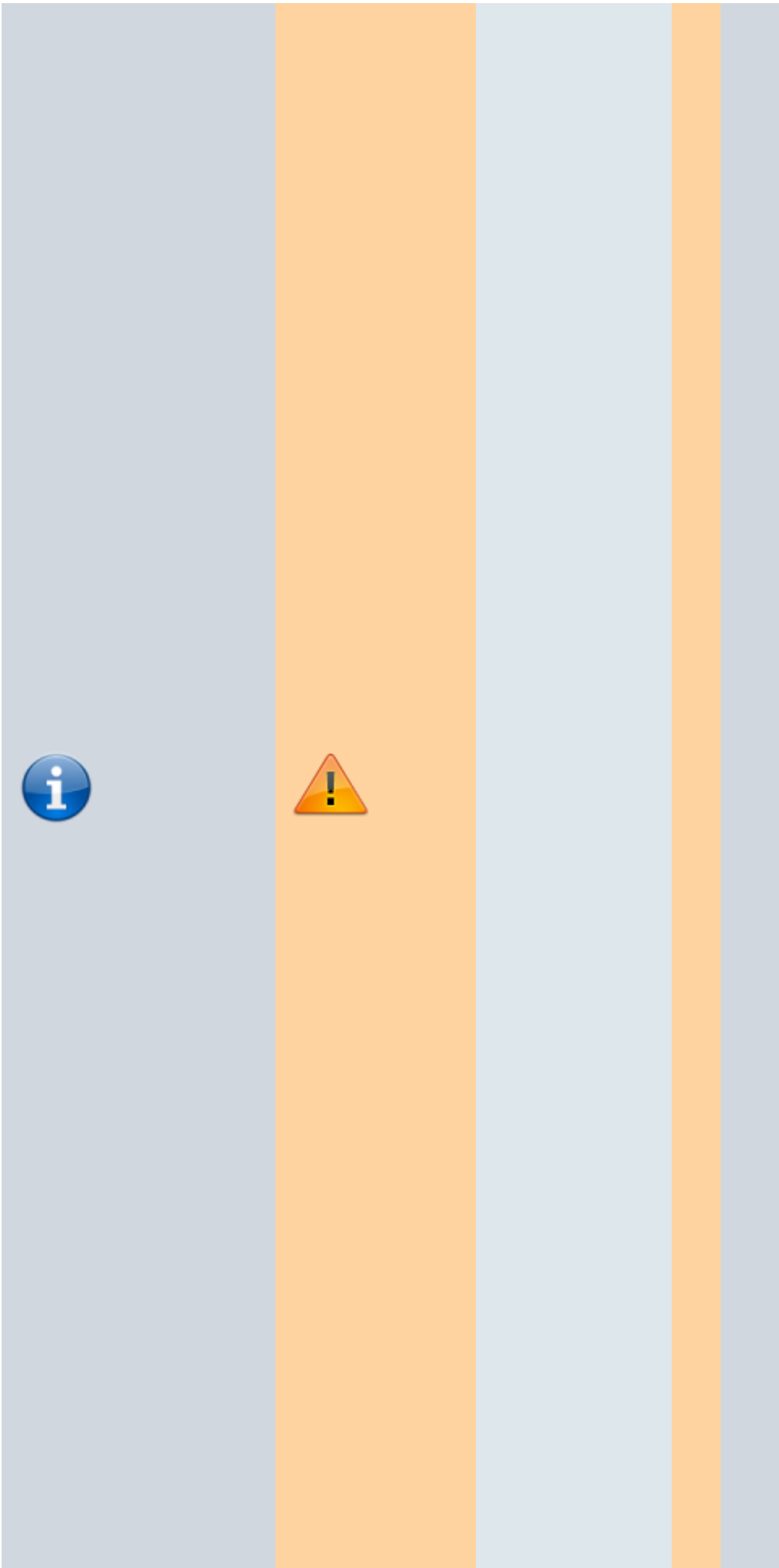


@IP - du - serveur

Quelques autres commandes utiles.

Classesique

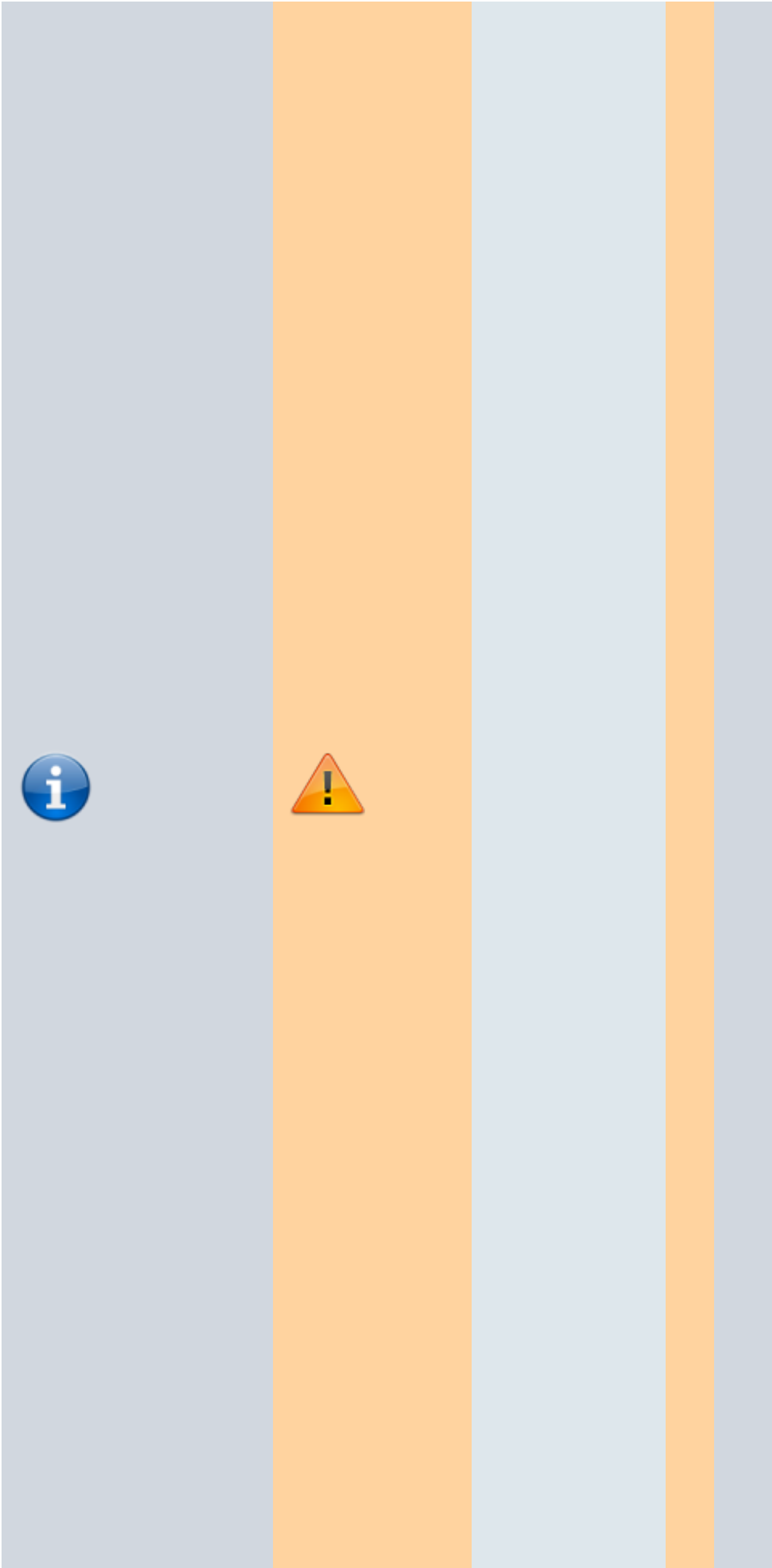




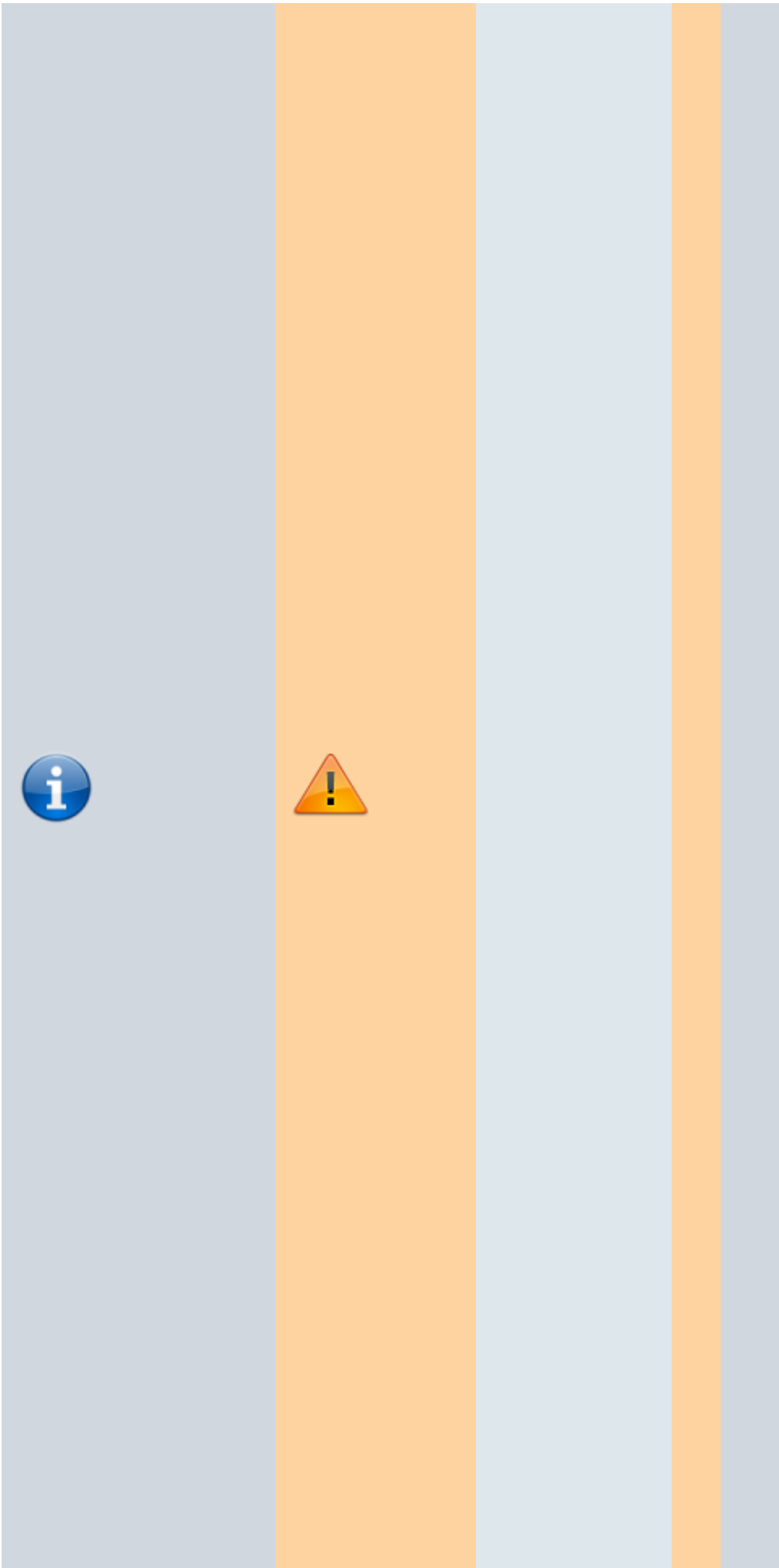
e  
n  
t

**P  
o  
u  
r  
a  
l  
e  
r  
p  
l  
u  
s  
l  
o  
i  
n**

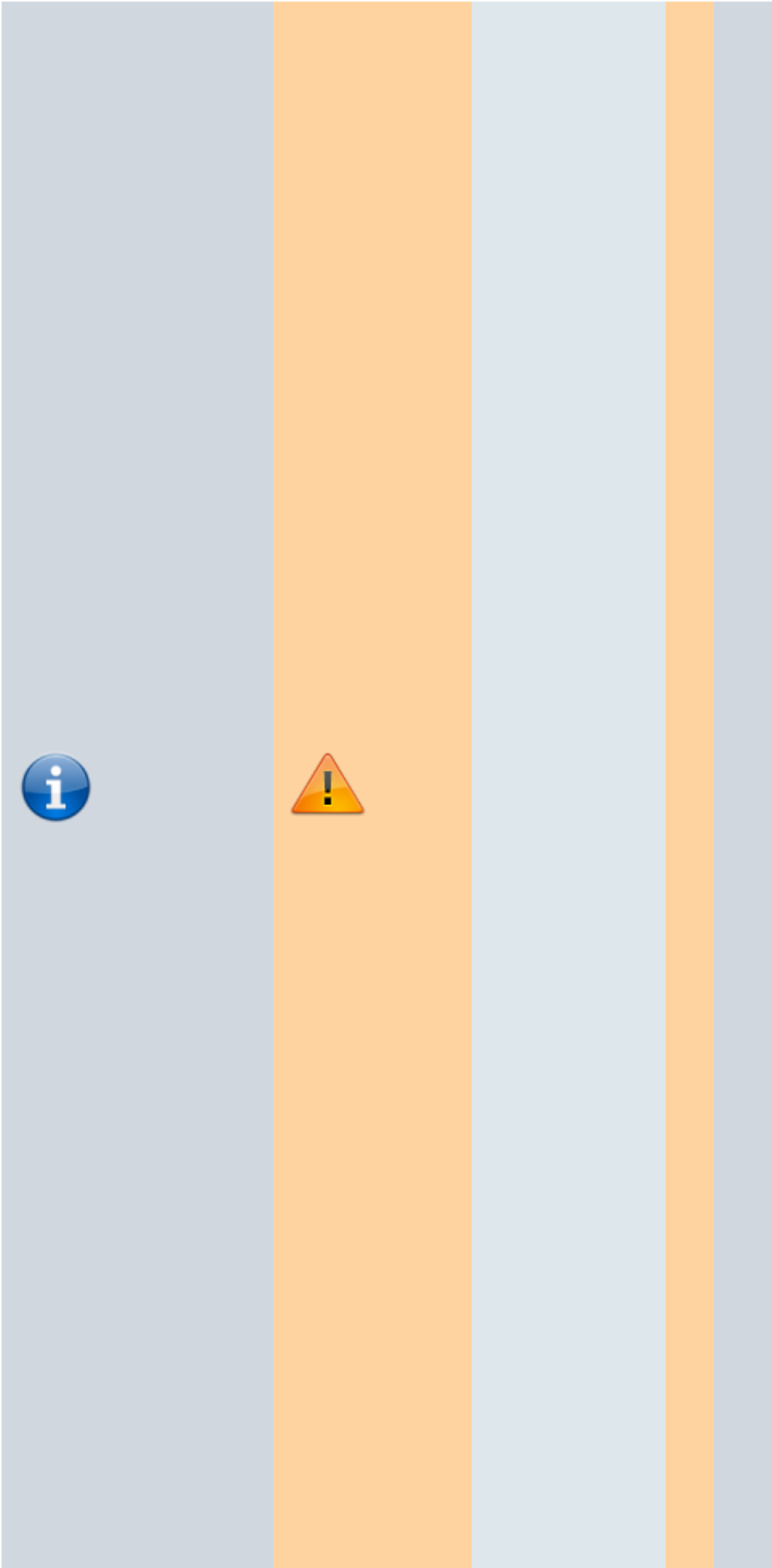
V  
o  
i  
c  
i  
q  
u  
e  
l  
q  
u  
e



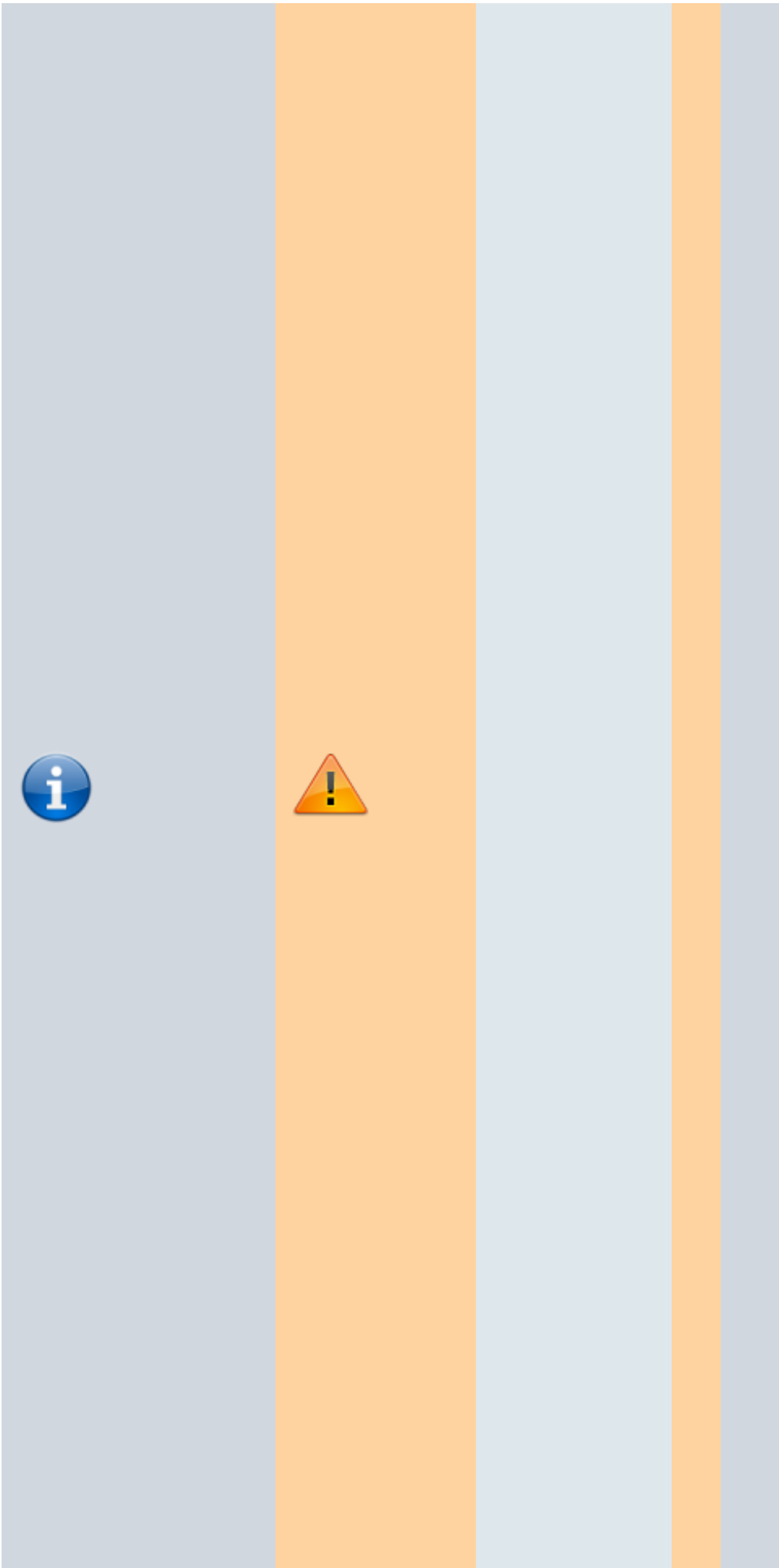
t  
i  
l  
e  
s  
à  
l  
a  
c  
o  
m  
p  
r  
é  
h  
e  
n  
s  
i  
o  
n  
e  
t  
a  
u  
p  
a  
r  
a  
m  
é  
t  
r  
a  
g  
e  
d  
u  
D  
N  
S  
:  
  
s  
e  
r  
v  
e  
u  
r  
m



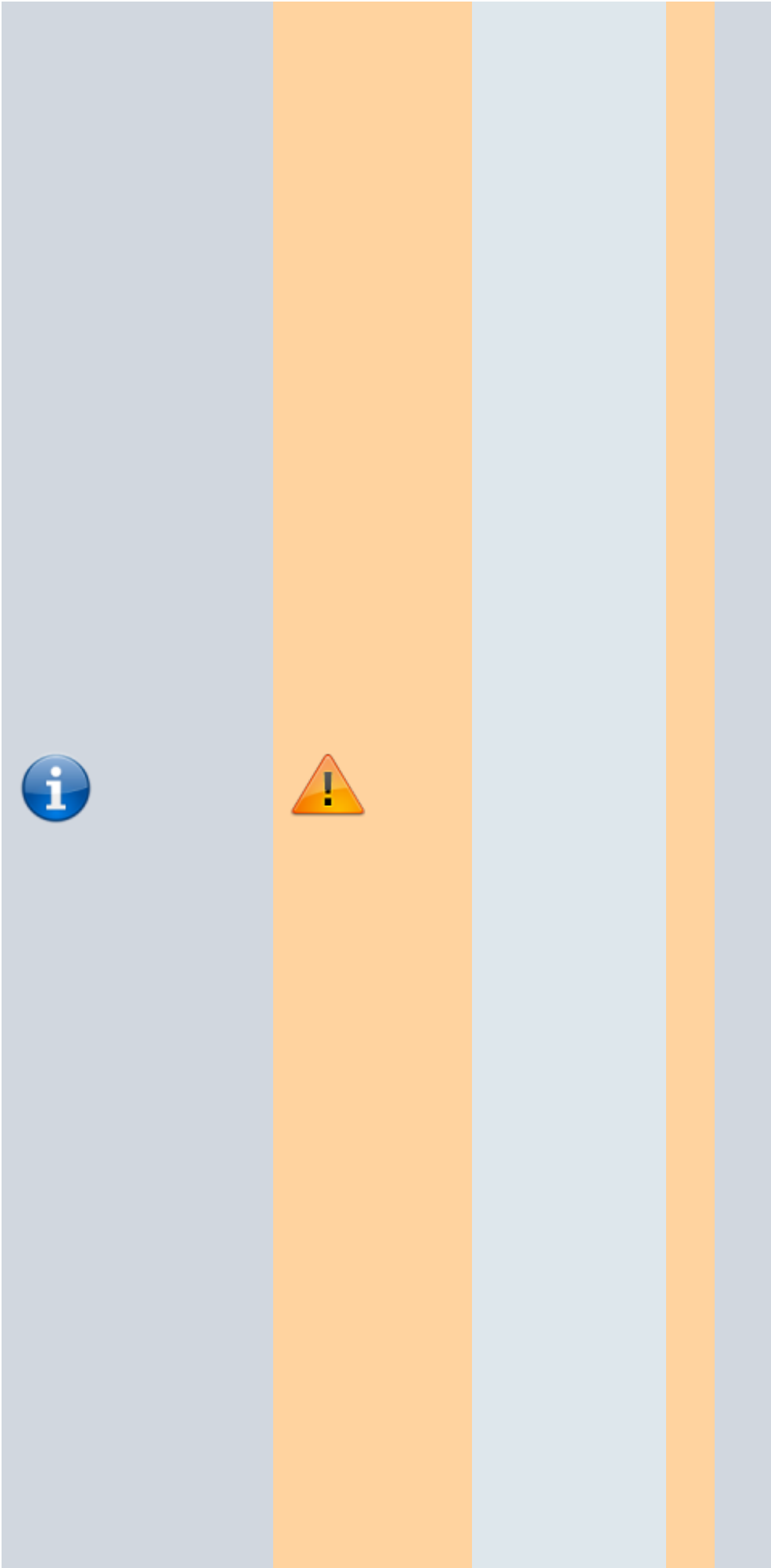
a  
â  
t  
r  
e  
s  
,  
o  
c  
c  
u  
p  
e  
d  
e  
s  
e  
n  
r  
e  
g  
i  
s  
t  
r  
e  
m  
e  
n  
t  
s  
D  
N  
S  
d  
,  
u  
n  
d  
o  
m  
a  
i  
n  
e  
n  
r  
e  
g



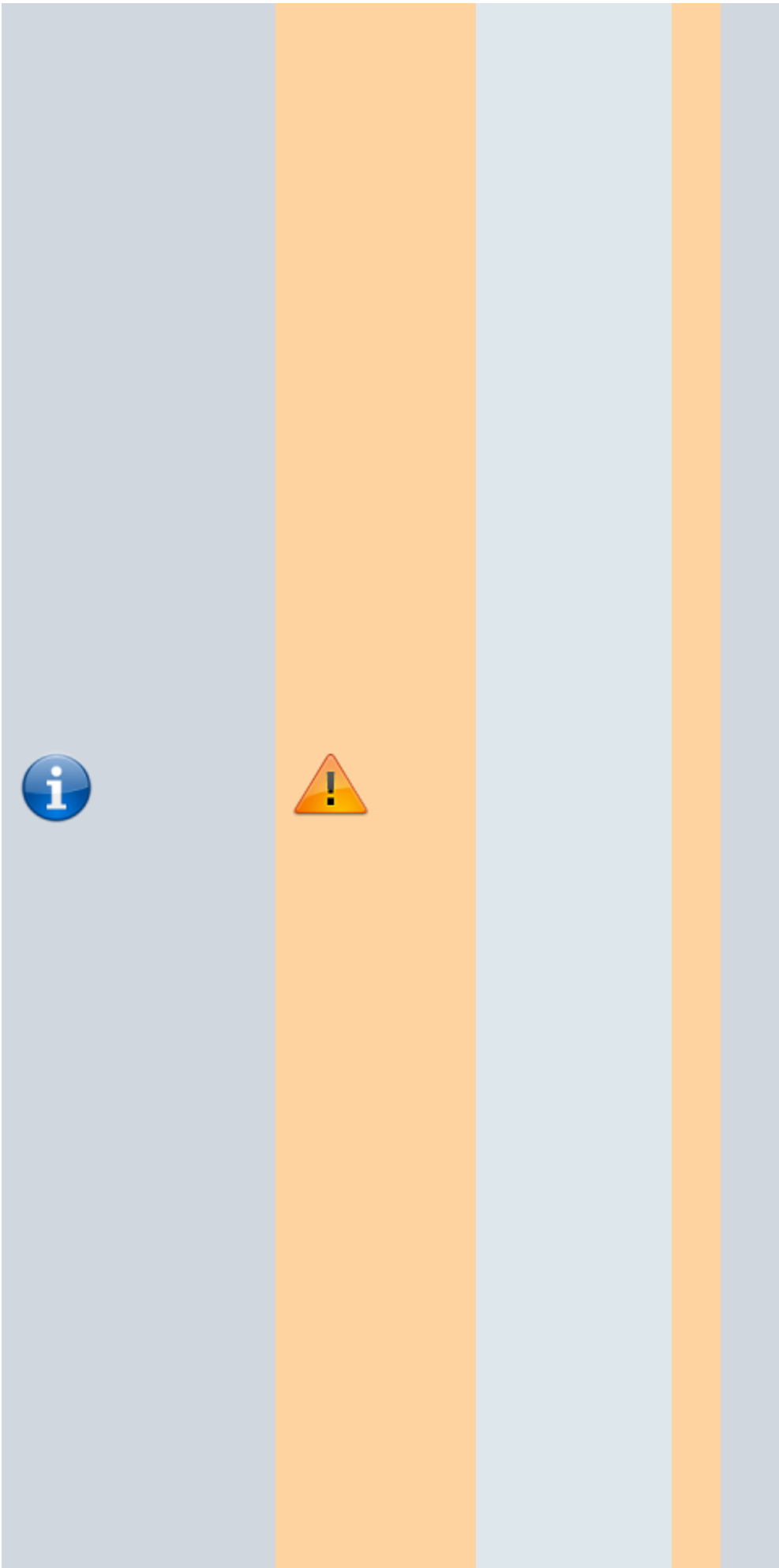
i  
s  
t  
r  
é  
o  
u  
n  
o  
n  
(  
p  
a  
r  
e  
x  
e  
m  
p  
l  
e  
p  
o  
u  
r  
l  
e  
c  
a  
s  
d  
,  
u  
n  
r  
é  
s  
e  
a  
u  
l  
o  
c  
a  
l  
f  
e  
r  
m  
é  
c



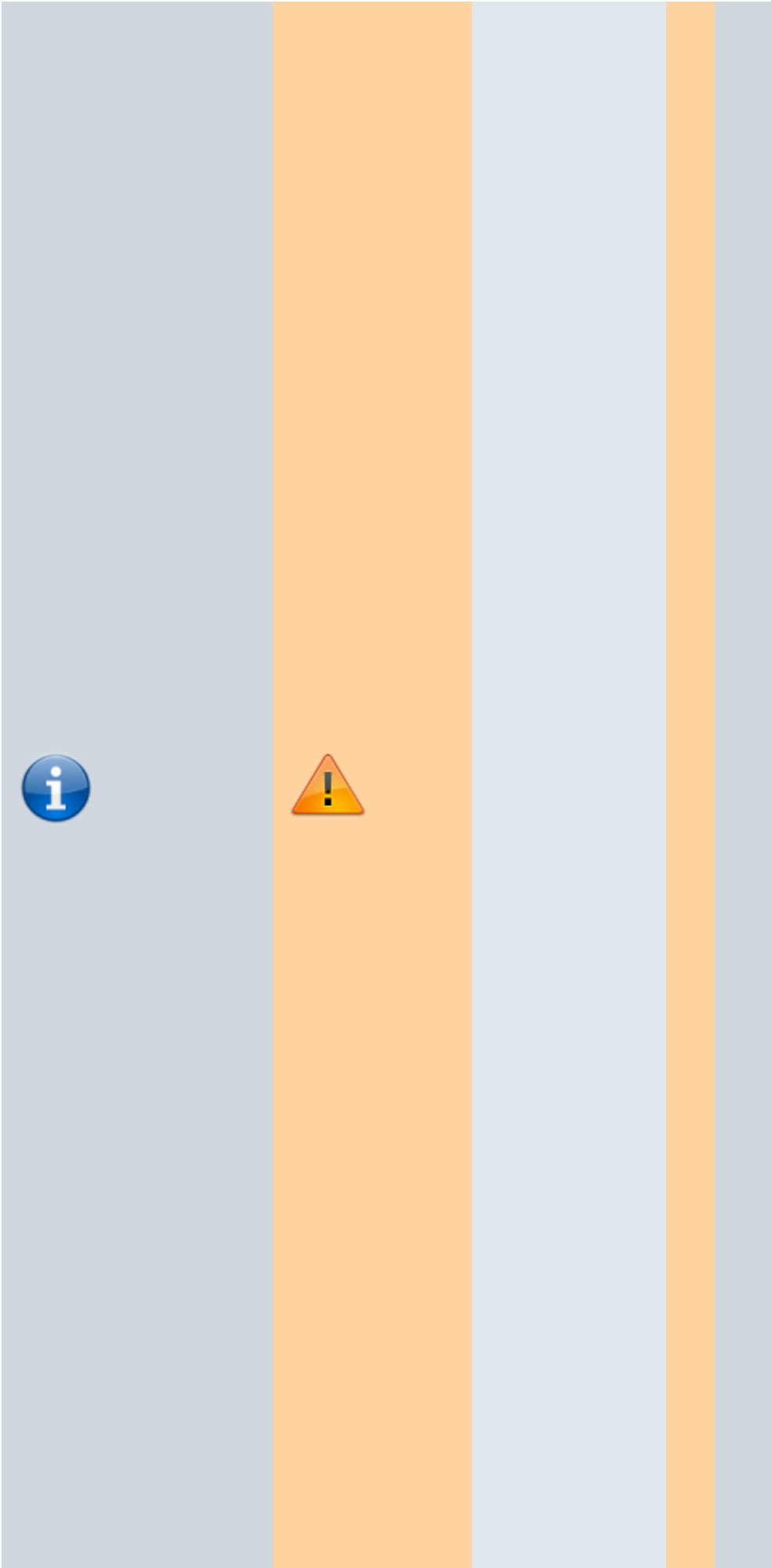
o  
m  
m  
e  
c  
e  
l  
u  
i  
d  
e  
n  
o  
t  
r  
e  
t  
u  
t  
o  
m  
a  
i  
s  
o  
n  
.  
l  
a  
n  
)  
u  
n  
e  
z  
o  
n  
e  
e  
n  
s  
e  
m  
b  
l  
e  
d  
e  
s  
e



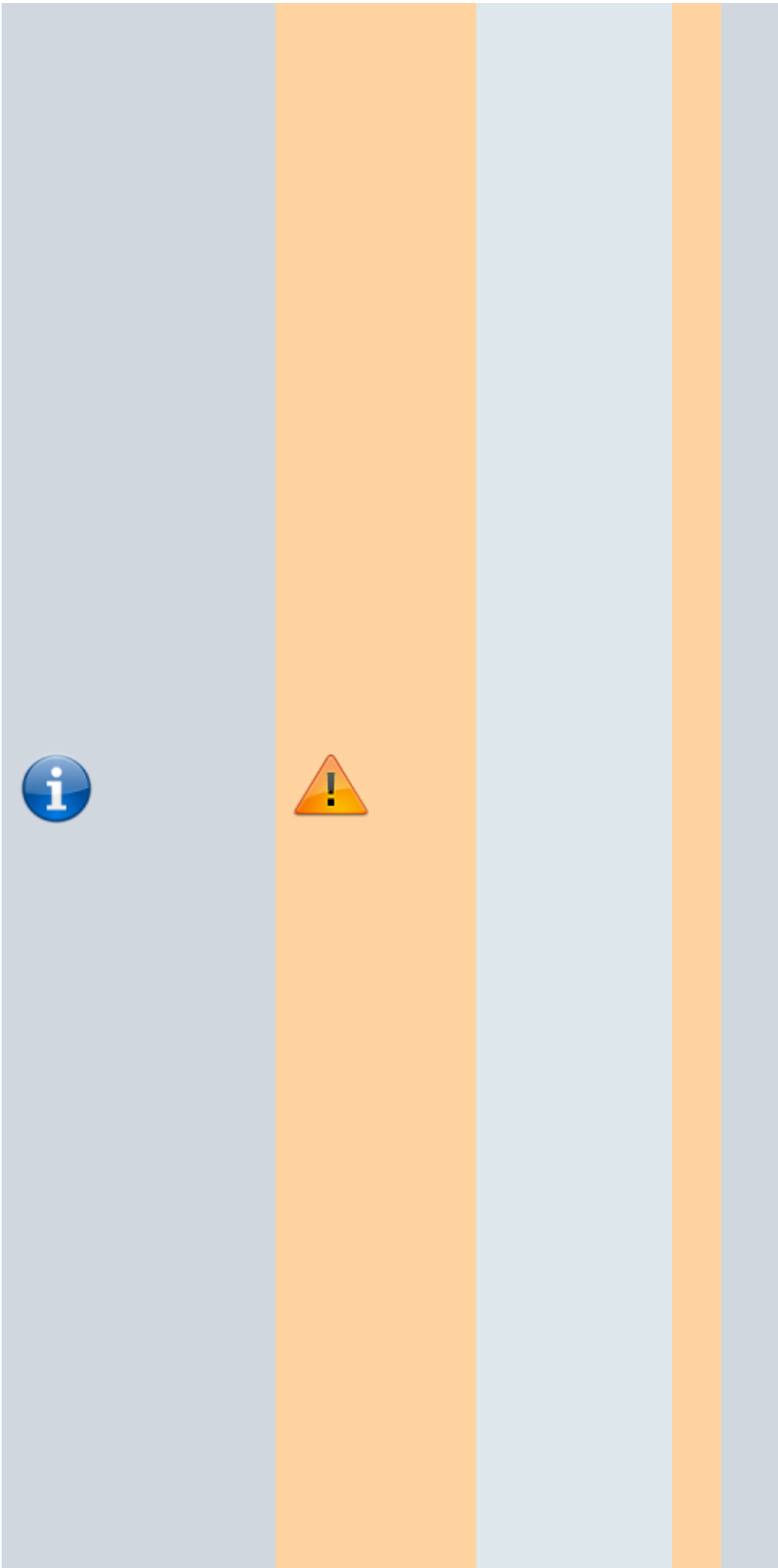
n  
r  
e  
g  
i  
s  
t  
r  
e  
m  
e  
n  
t  
s  
D  
N  
S  
p  
o  
u  
r  
u  
n  
n  
o  
m  
d  
e  
d  
o  
m  
a  
i  
n  
e  
.  
I  
l  
e  
x  
i  
s  
t  
e  
u  
n  
e  
z  
o  
n  
e



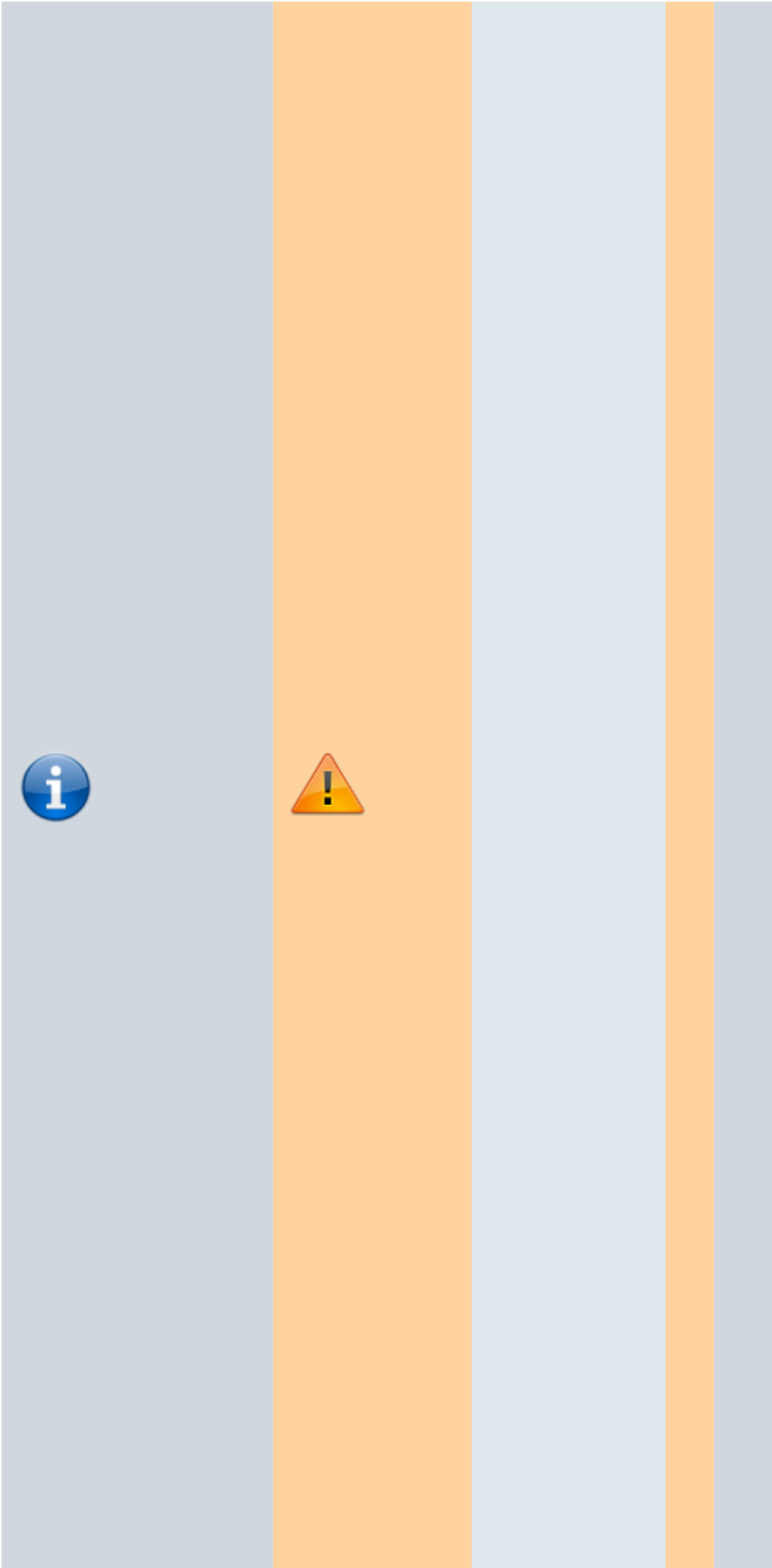
d  
e  
r  
e  
c  
h  
e  
r  
c  
h  
e  
d  
i  
r  
e  
c  
t  
e  
(  
c  
o  
r  
r  
e  
s  
p  
o  
n  
d  
a  
n  
c  
e  
e  
n  
t  
r  
e  
l  
e  
n  
o  
m  
d  
,  
h  
ô  
t  
e  
e



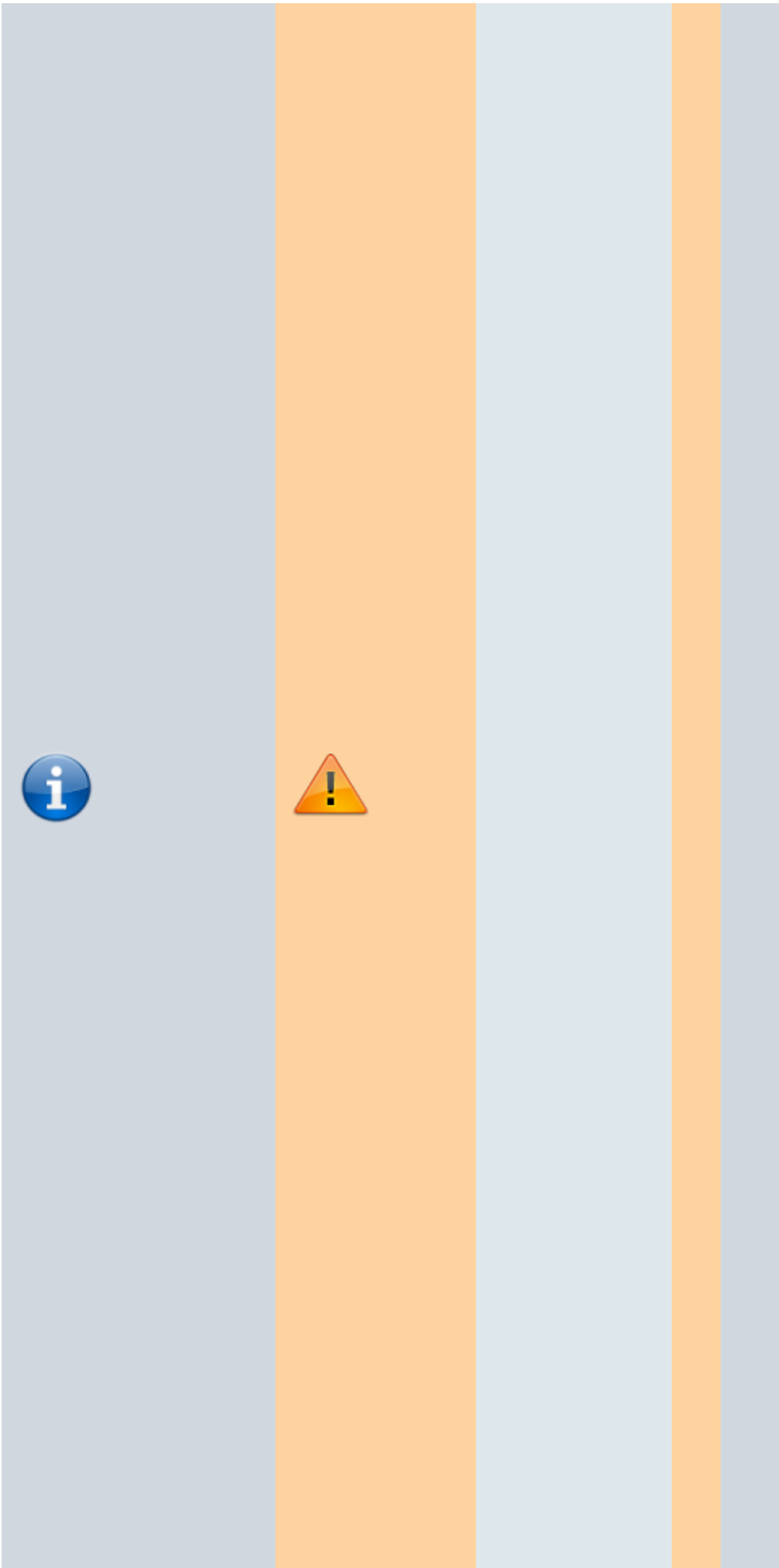
t  
l  
,  
a  
d  
r  
e  
s  
s  
e  
l  
P  
)  
e  
t  
u  
n  
e  
z  
o  
n  
e  
d  
e  
r  
e  
c  
h  
e  
r  
c  
h  
e  
i  
n  
v  
e  
r  
s  
e  
(  
c  
o  
r  
r  
e  
s  
p  
o  
n  
d



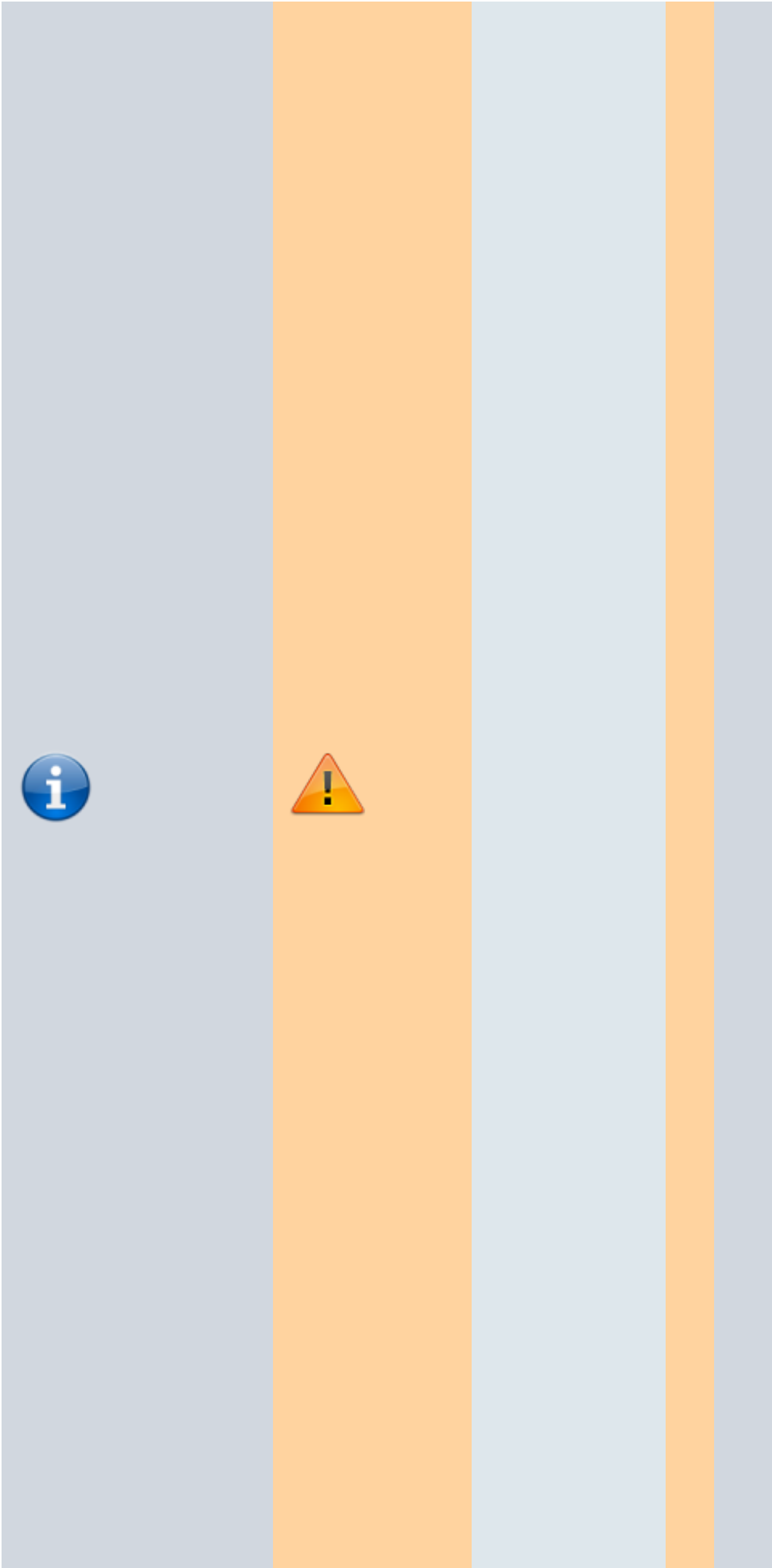
a  
n  
c  
e  
n  
t  
r  
e  
,  
a  
d  
r  
e  
s  
s  
e  
l  
P  
e  
t  
l  
e  
n  
o  
m  
d  
,  
h  
ô  
t  
e  
)  
s  
e  
r  
v  
e  
u  
r  
s  
e  
c  
o  
n  
d  
a  
i  
r



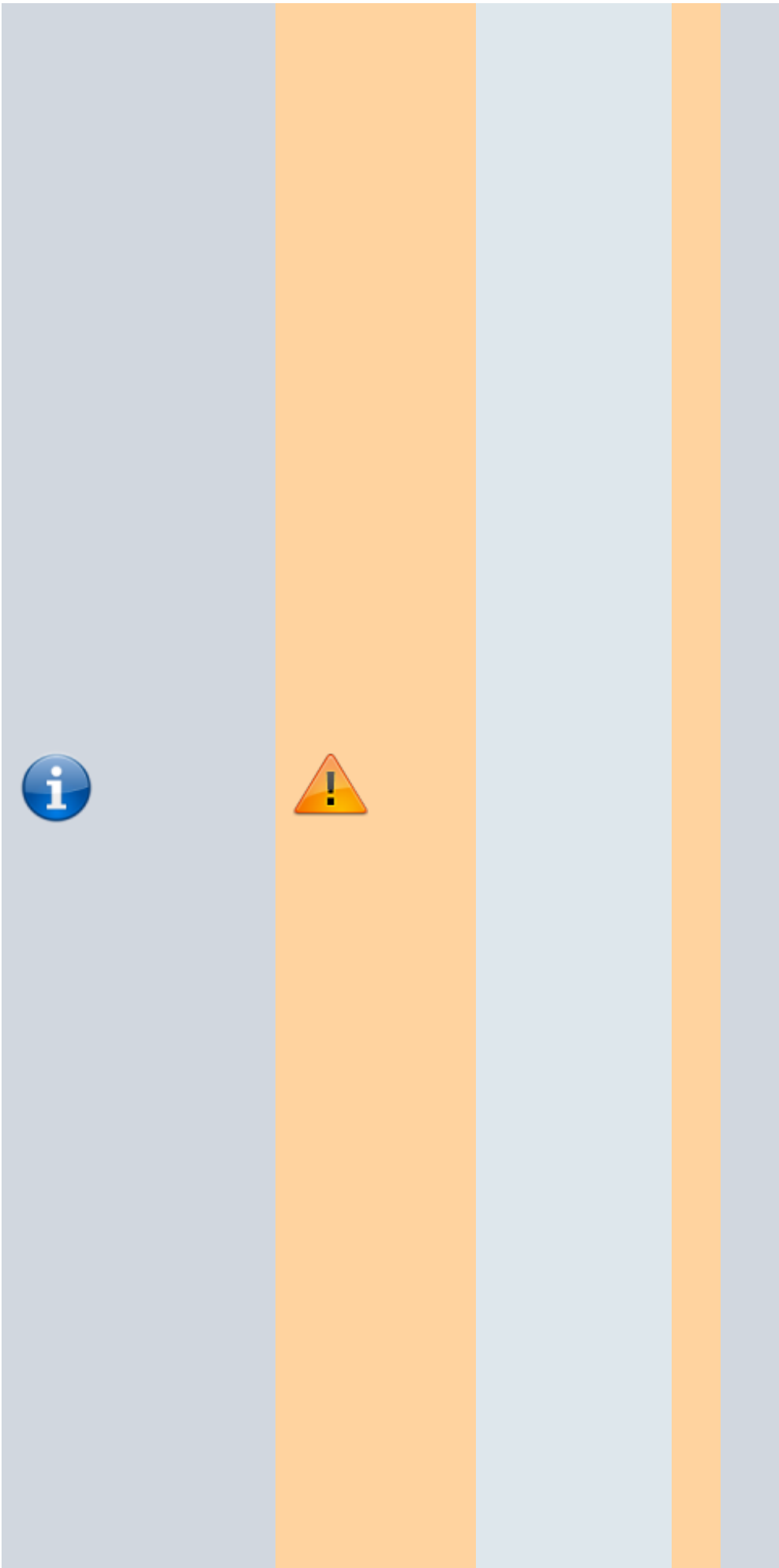
e  
a  
s  
s  
u  
r  
e  
l  
a  
r  
e  
d  
o  
n  
d  
a  
n  
c  
e  
d  
u  
s  
e  
r  
v  
e  
u  
r  
m  
a  
î  
t  
r  
e  
e  
t  
p  
r  
e  
n  
d  
l  
e  
r  
e  
l  
a  
i  
s  
d  
e



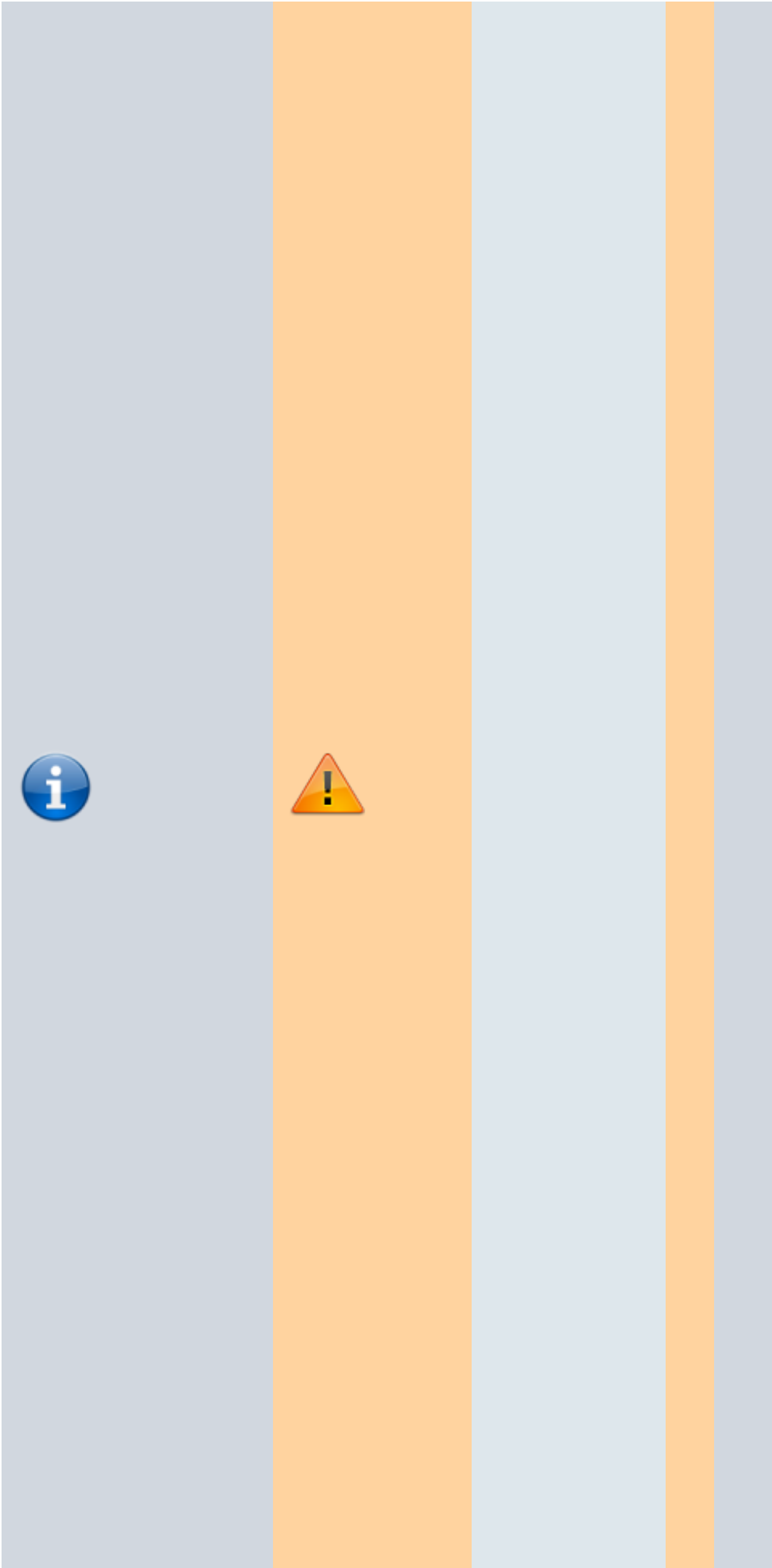
c  
e  
l  
u  
i  
-  
c  
i  
e  
n  
c  
a  
s  
d  
e  
p  
a  
n  
n  
e  
s  
e  
r  
v  
e  
u  
r  
e  
s  
c  
l  
a  
v  
e  
u  
n  
e  
r  
é  
p  
l  
i  
c  
a  
t  
i  
o  
n  
d  
u



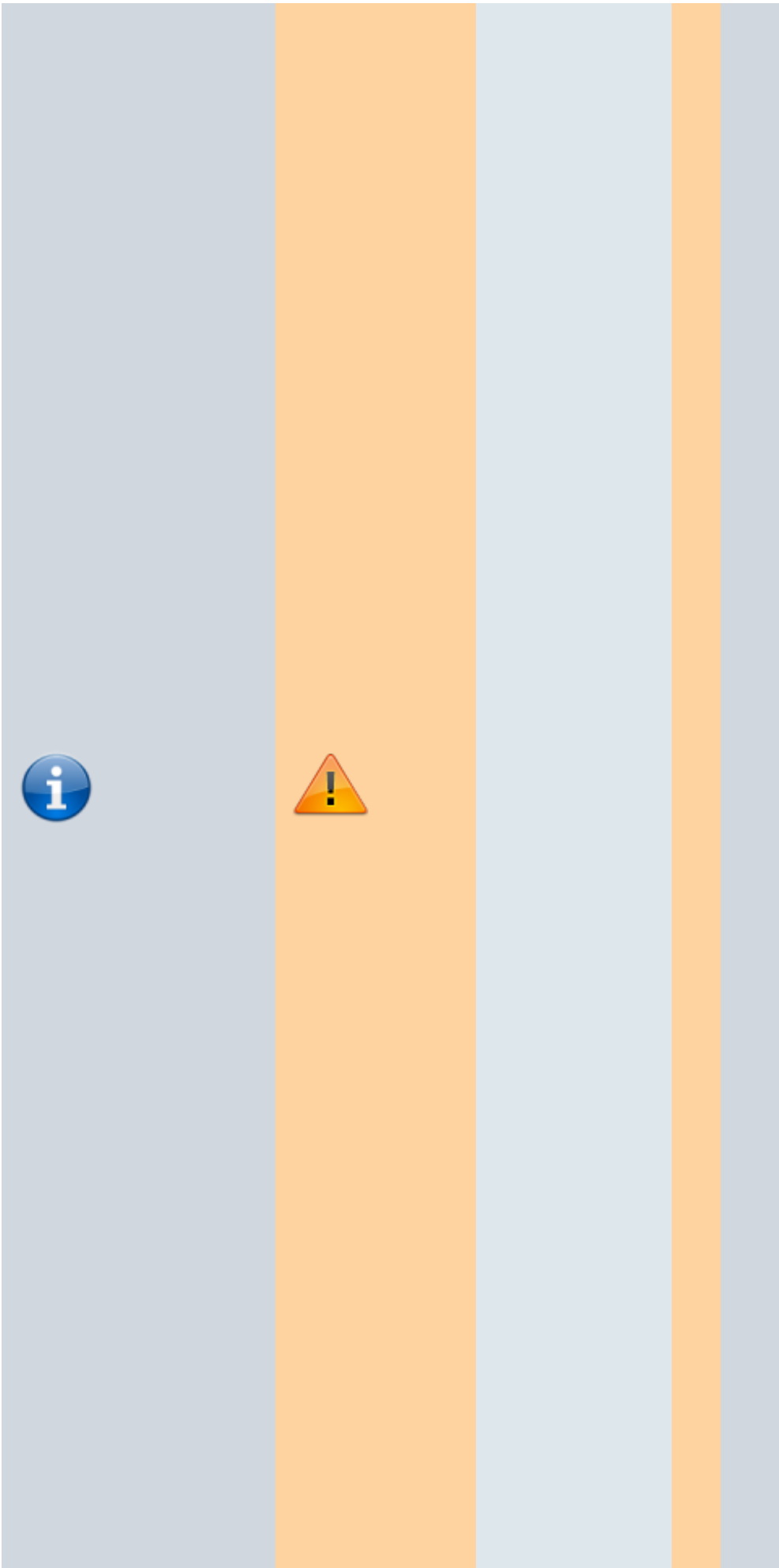
S  
e  
r  
v  
e  
u  
r  
m  
a  
î  
t  
r  
e  
u  
t  
i  
l  
i  
s  
é  
c  
o  
m  
m  
e  
s  
a  
u  
v  
e  
g  
a  
r  
d  
e  
s  
e  
r  
v  
e  
u  
r  
c  
a  
c  
h  
e  
s  
t  
o  
c



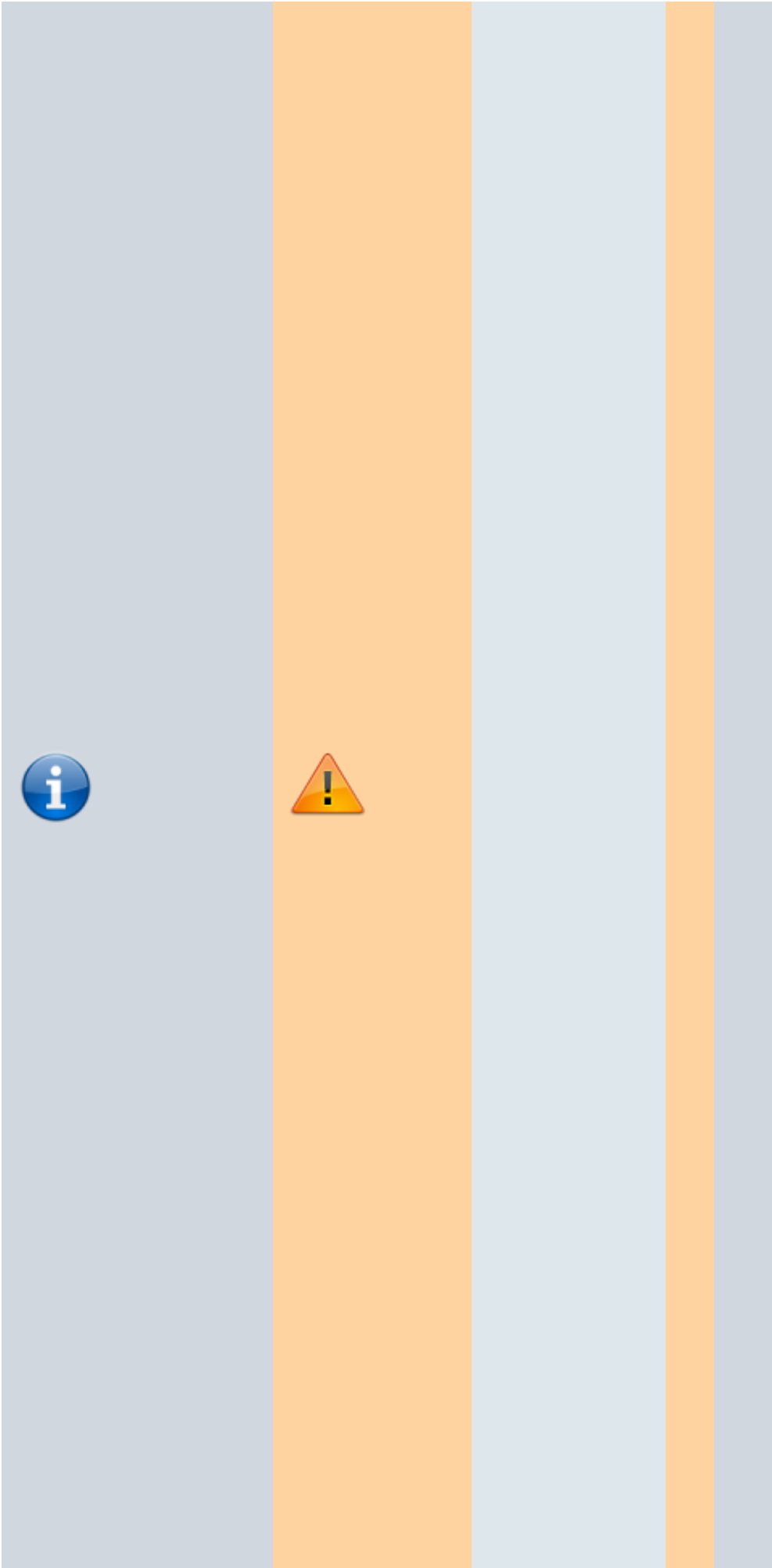
k  
e  
l  
e  
s  
r  
e  
q  
u  
è  
t  
e  
s  
d



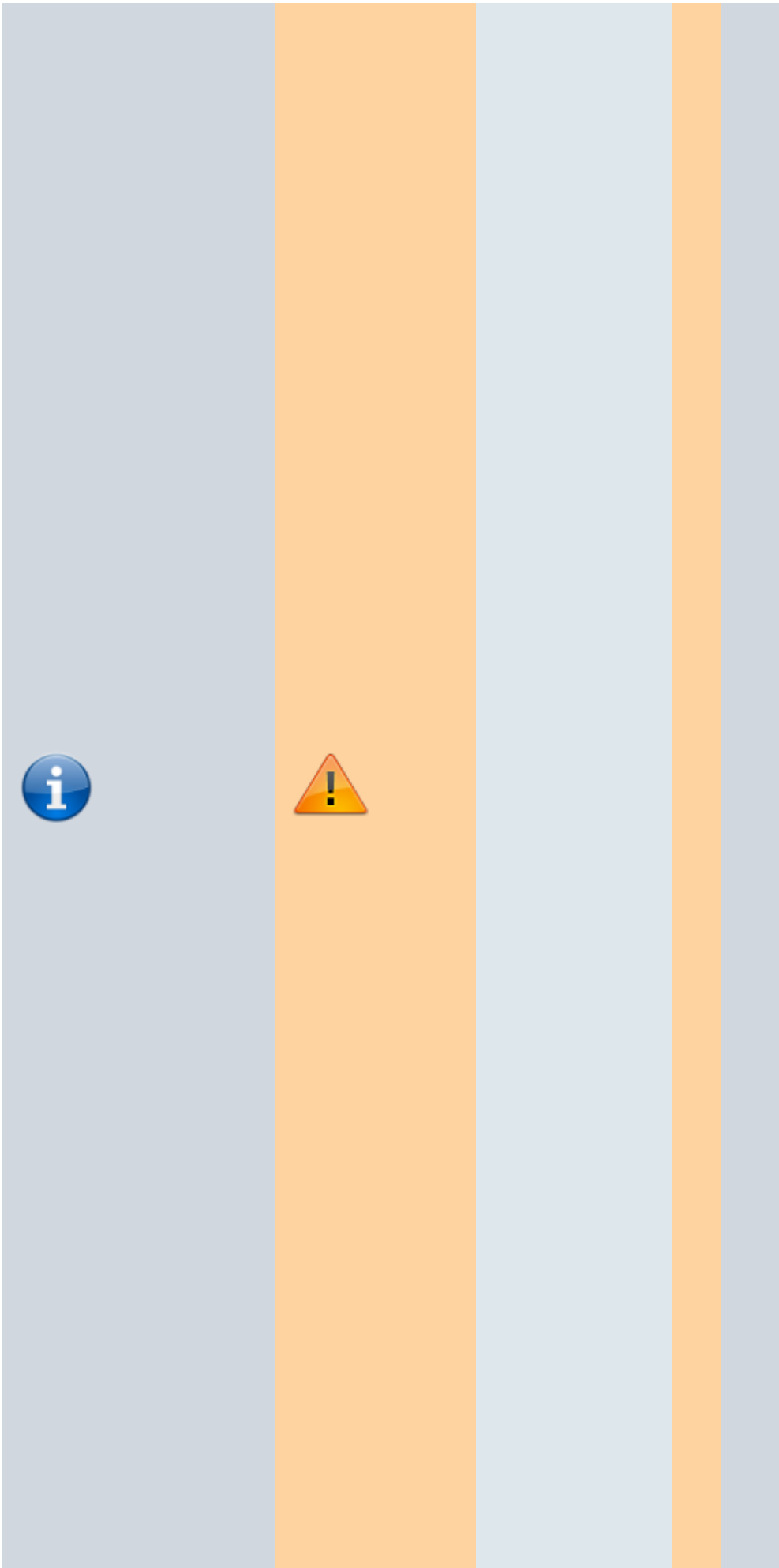
b  
a  
n  
d  
e  
p  
a  
s  
s  
a  
n  
t  
e  
e  
t  
d  
e  
r  
é  
d  
u  
i  
r  
e  
l  
e  
t  
e  
m  
p  
s  
d  
e  
l  
a  
t  
e  
n  
c  
e  
  
M  
a  
i  
n  
t  
e  
n  
a  
n  
t



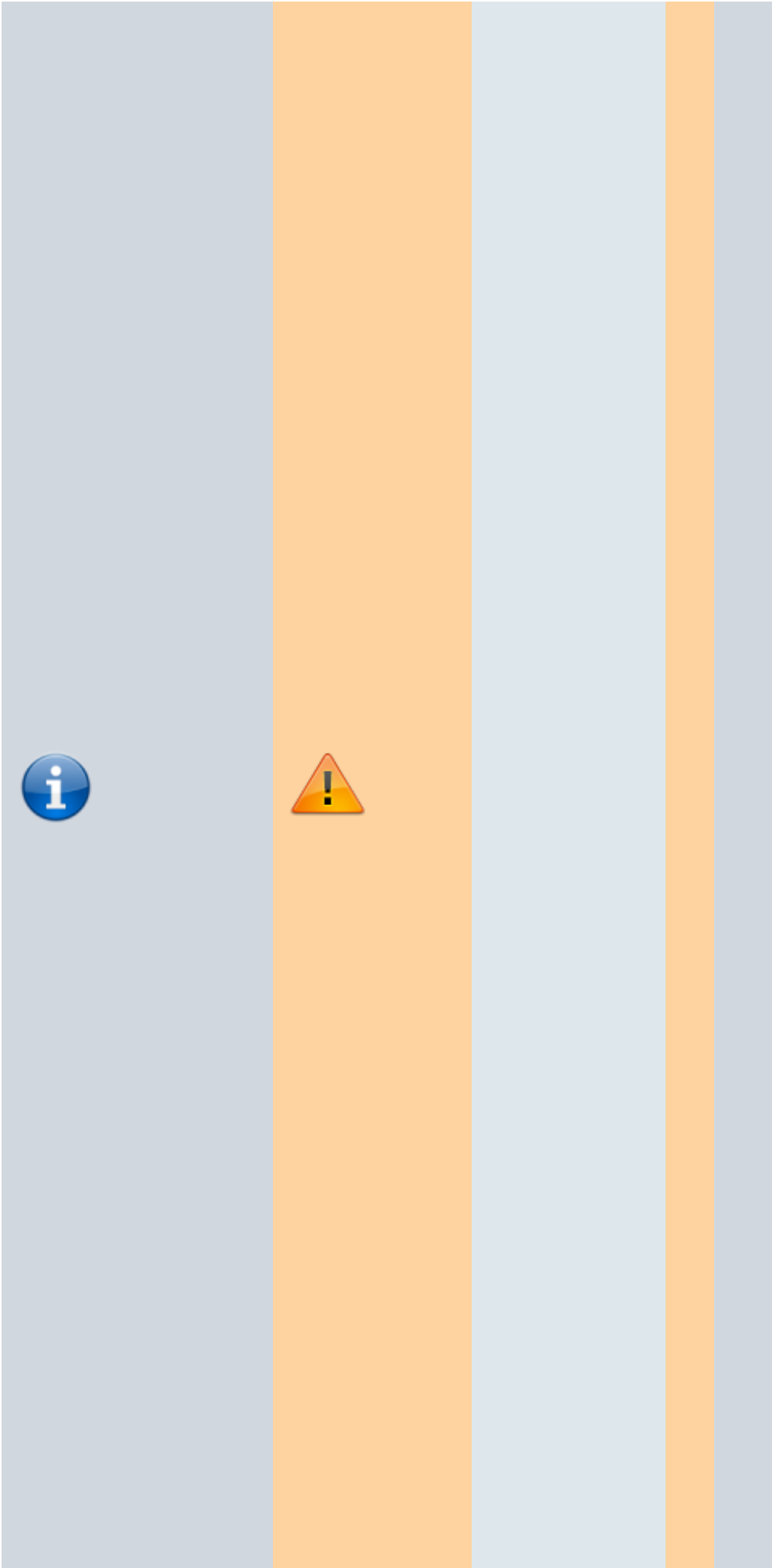
V  
O  
U  
S  
d  
i  
s  
p  
o  
s  
e  
z  
d  
,  
u  
n  
s  
e  
r  
v  
e  
u  
r  
D  
N  
S  
d  
i  
g  
n  
e  
d  
e  
c  
e  
n  
o  
m  
(  
s  
a  
n  
s  
f  
a  
i  
r  
e  
d  
e



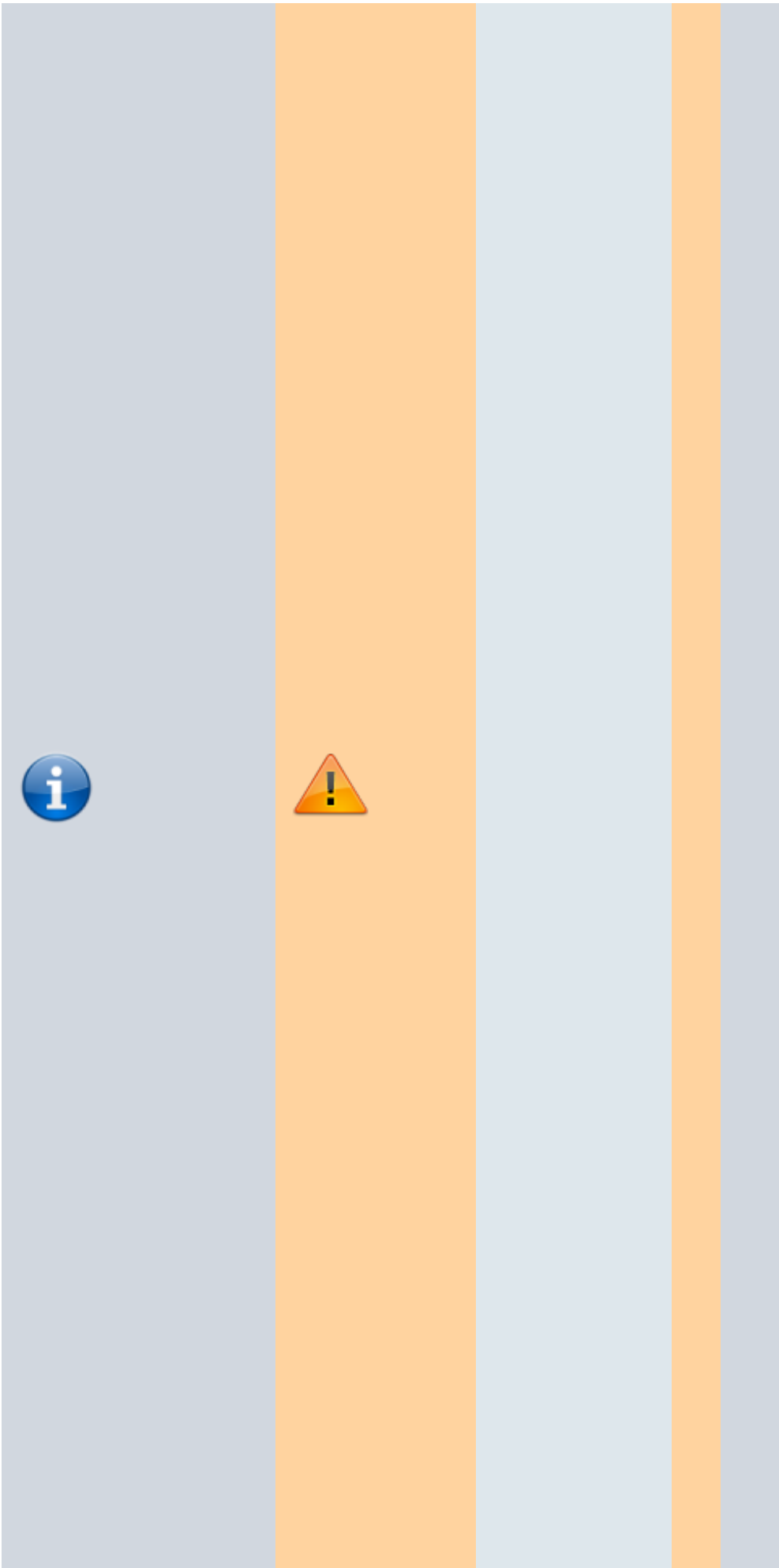
j  
e  
u  
d  
e  
m  
o  
t  
s  
)  
.L  
e  
D  
N  
S  
e  
s  
t  
i  
m  
p  
o  
r  
t  
a  
n  
t  
s  
u  
r  
t  
o  
u  
t  
s  
i  
v  
o  
u  
s  
s  
o  
u  
h  
a  
i  
t  
e  
z  
i



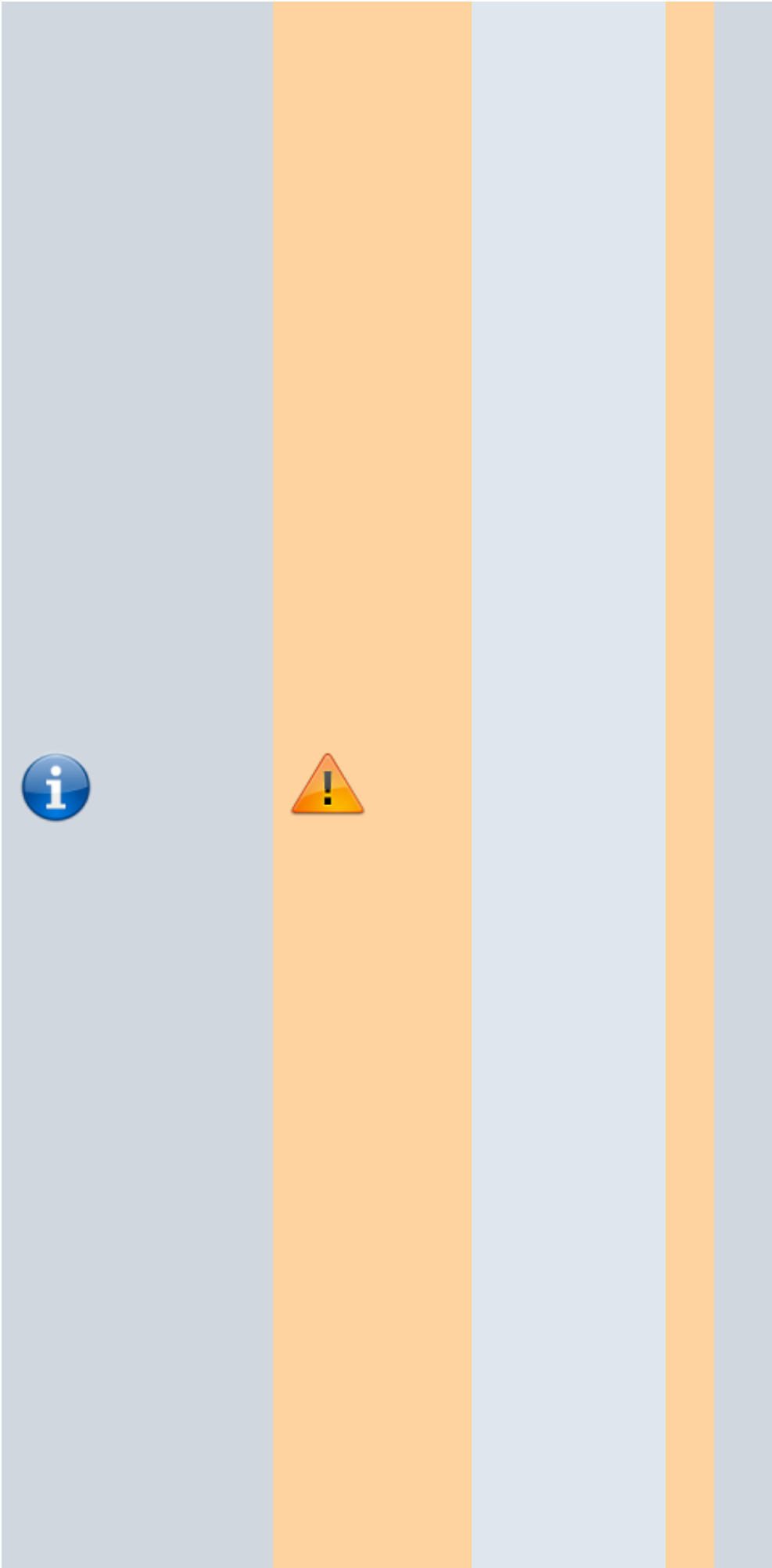
n  
s  
t  
a  
l  
l  
e  
r  
d  
,  
a  
u  
t  
r  
e  
s  
s  
e  
r  
v  
i  
c  
e  
s  
c  
o  
m  
m  
e  
l  
a  
m  
e  
s  
s  
a  
g  
e  
r  
i  
e  
p  
a  
r  
e  
x  
e  
m  
p  
l



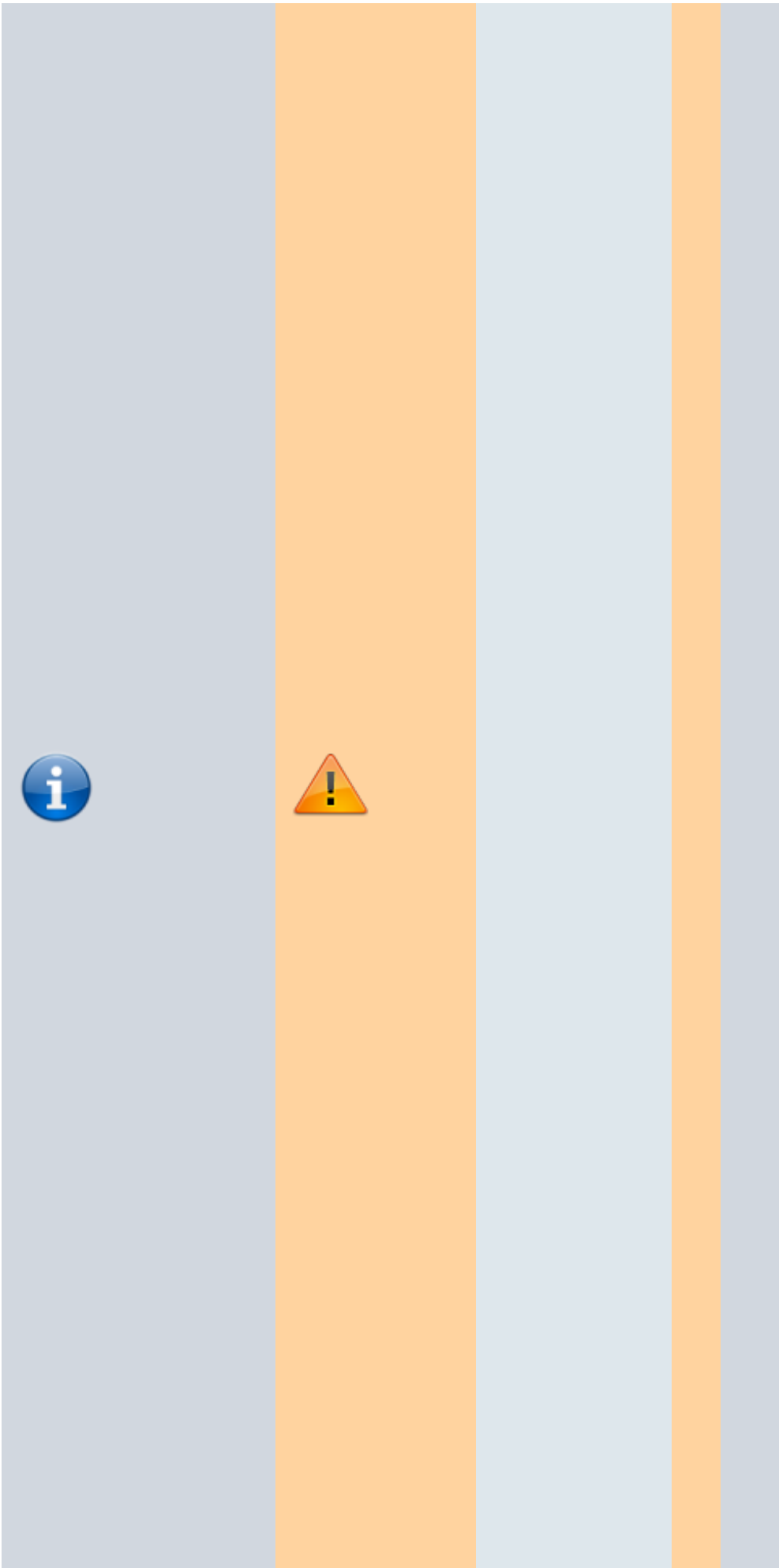
e  
.  
**C o h a b i t a t i o n a v e c s y s t e m d**  
V o i r :  
[h t t p s : / / w w w . o](https://www.o)



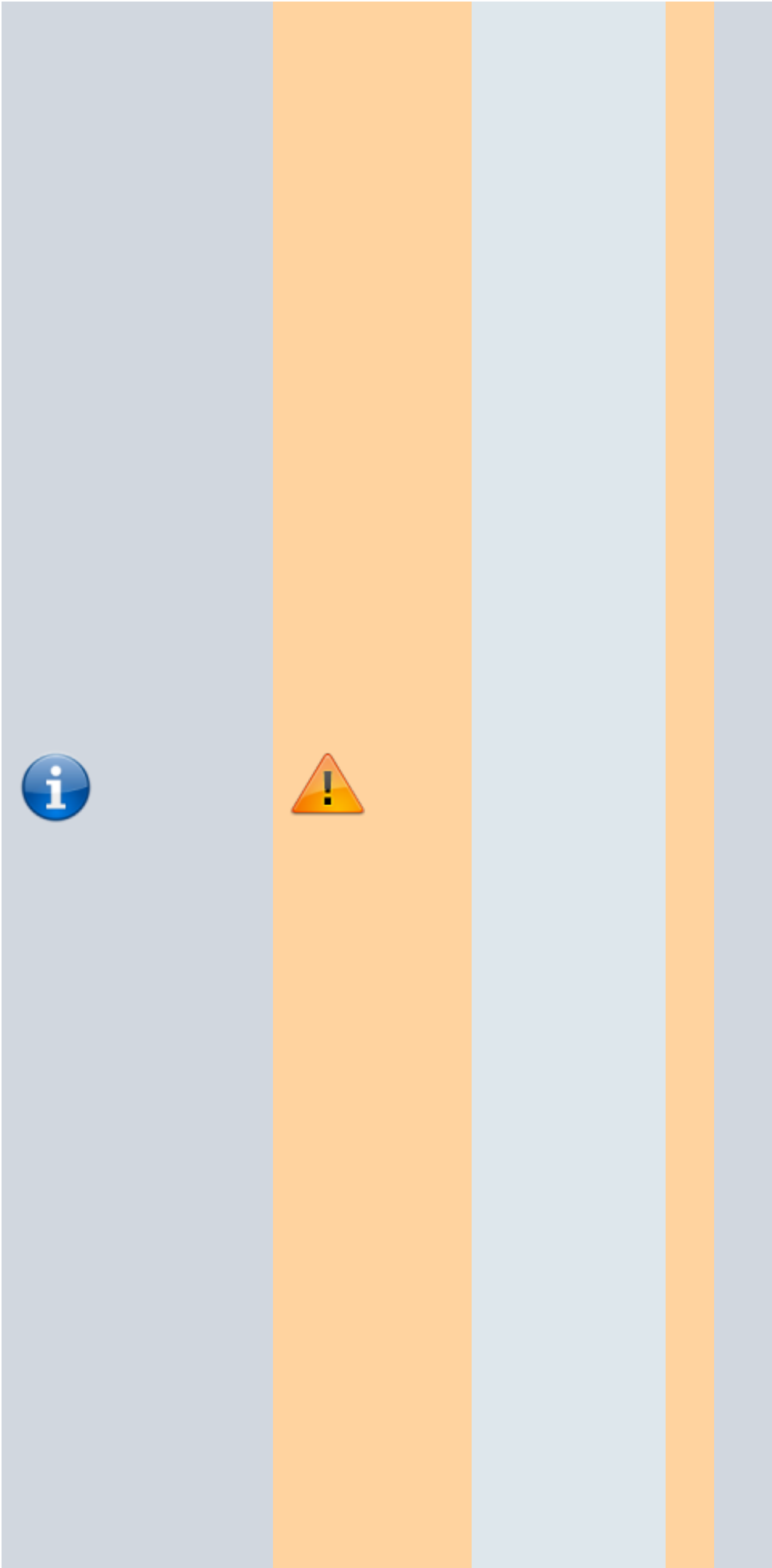
s  
r  
a  
d  
a  
r  
.  
c  
o  
m  
/  
h  
o  
w  
-  
t  
o  
-  
i  
n  
s  
t  
a  
l  
l  
-  
c  
o  
n  
f  
i  
g  
u  
r  
e  
-  
d  
n  
s  
m  
a  
s  
q  
-  
o  
n  
-  
u  
b  
u  
n



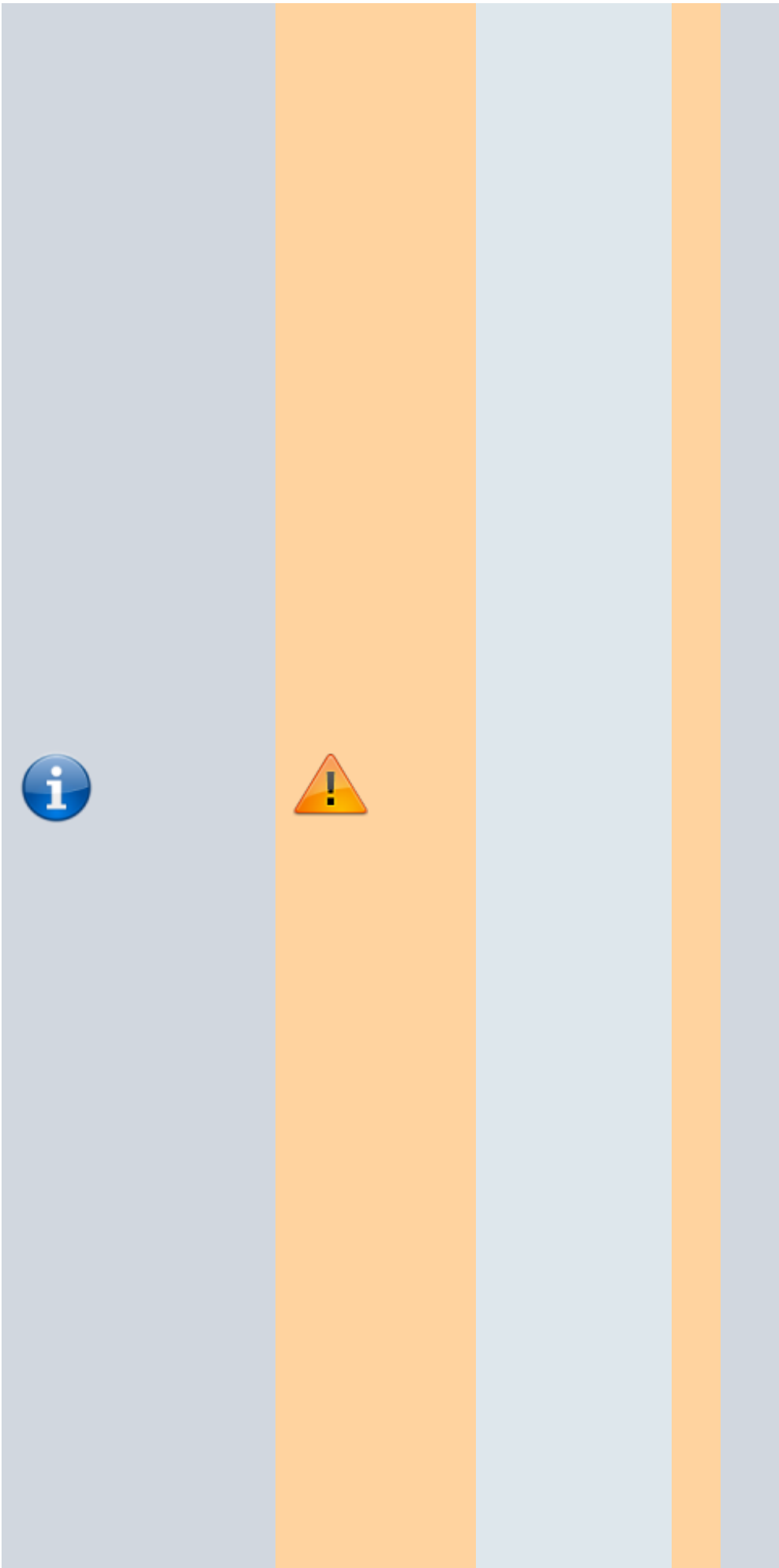
t  
u  
-  
1  
8  
-  
0  
4  
-  
l  
t  
s  
/  
h  
t  
t  
p  
s  
:  
/  
/  
u  
n  
i  
x  
.  
s  
t  
a  
c  
k  
e  
x  
c  
h  
a  
n  
g  
e  
.  
c  
o  
m  
/  
q  
u  
e  
s  
t  
i  
o



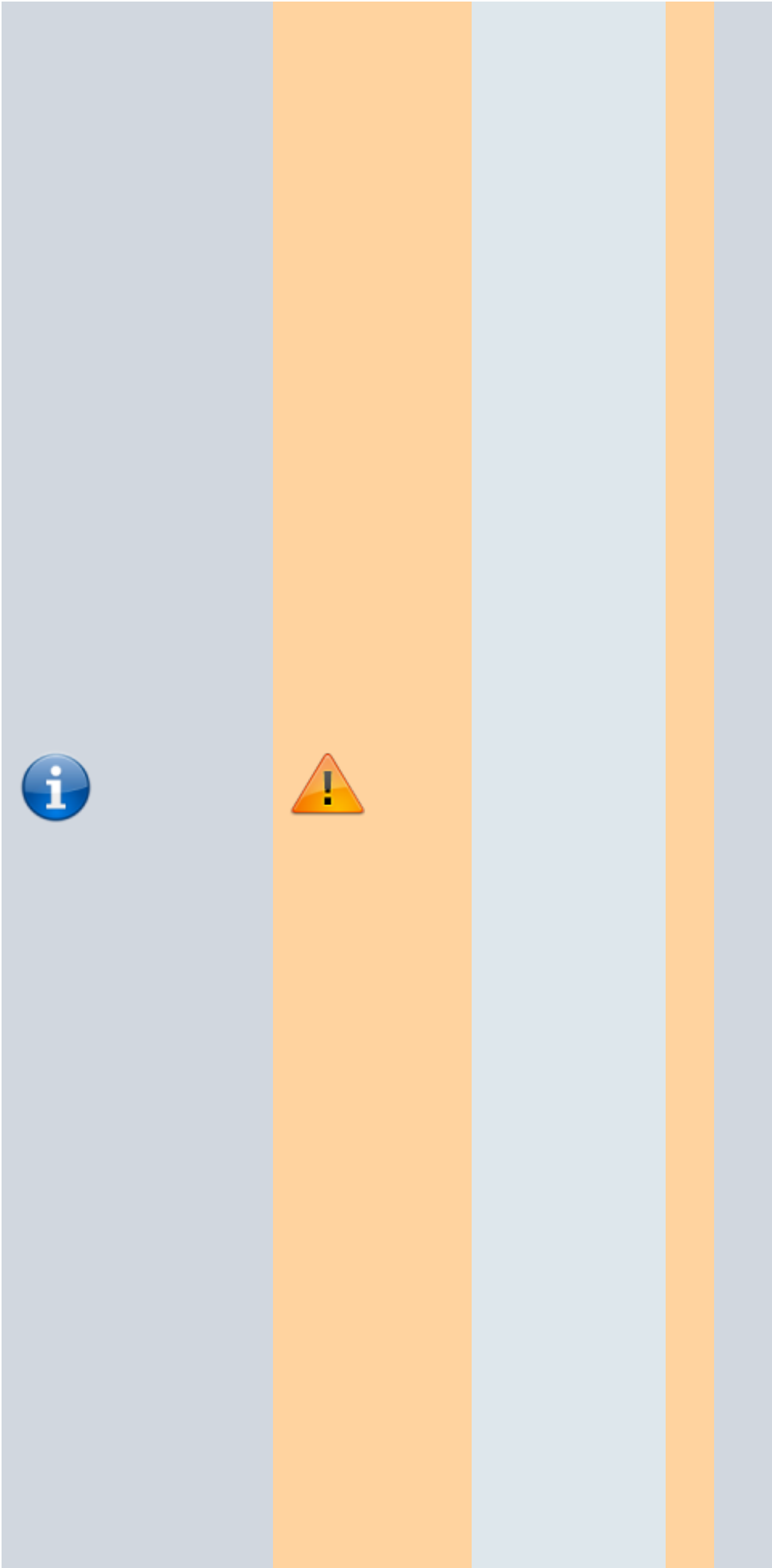
n  
s  
/  
3  
0  
4  
0  
5  
0  
/  
h  
o  
w  
-  
t  
o  
-  
a  
v  
o  
i  
d  
-  
c  
o  
n  
f  
l  
i  
c  
t  
s  
-  
b  
e  
t  
w  
e  
e  
n  
-  
d  
n  
s  
m  
a  
s  
q  
-  
a  
n



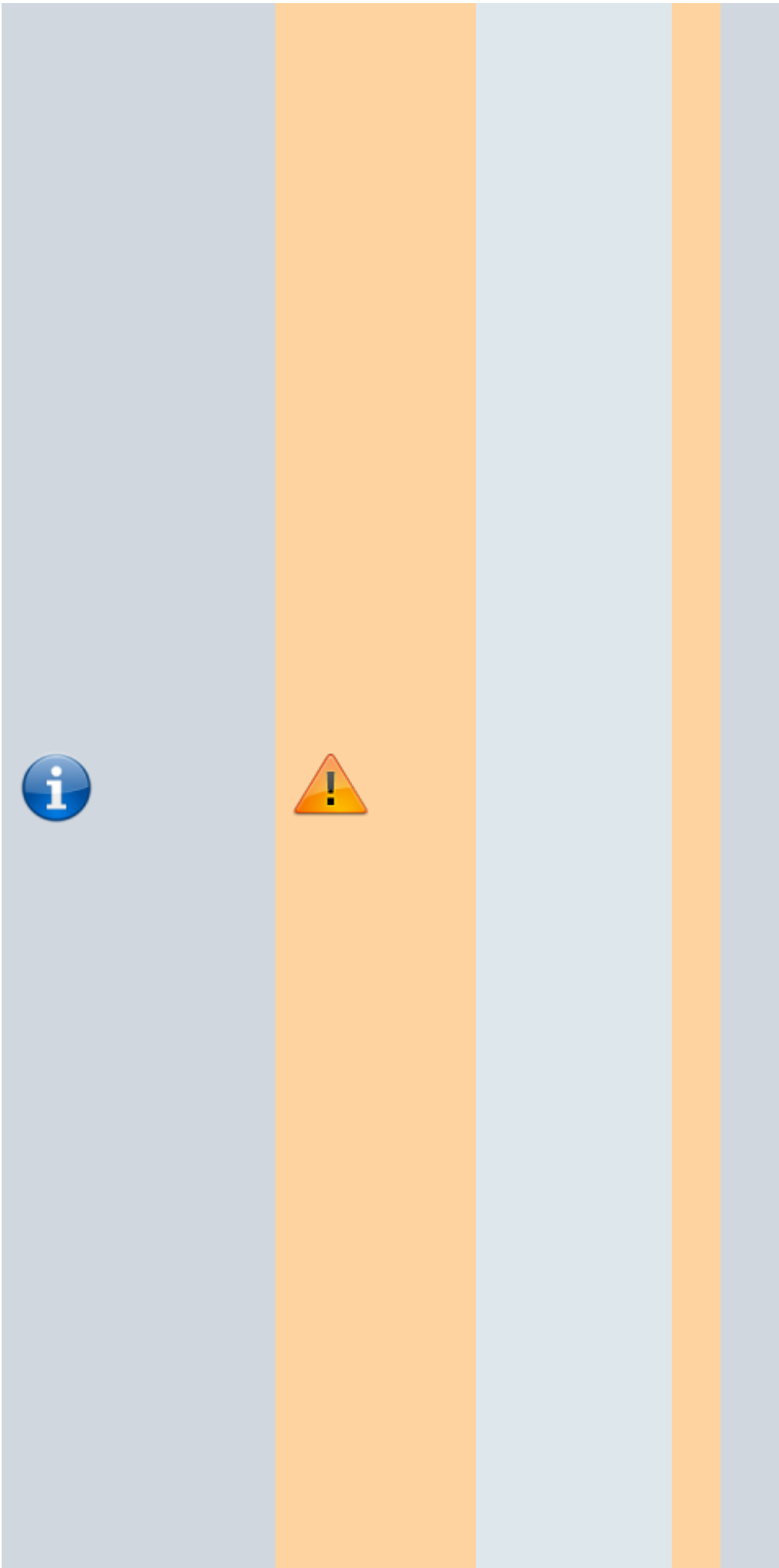
d  
-  
s  
y  
s  
t  
e  
m  
d  
-  
r  
e  
s  
o  
l  
v  
e  
d  
h  
t  
t  
p  
s  
:  
/  
/  
b  
b  
s  
.  
a  
r  
c  
h  
l  
i  
n  
u  
x  
.  
o  
r  
g  
/  
v  
i  
e  
w  
t  
o  
p



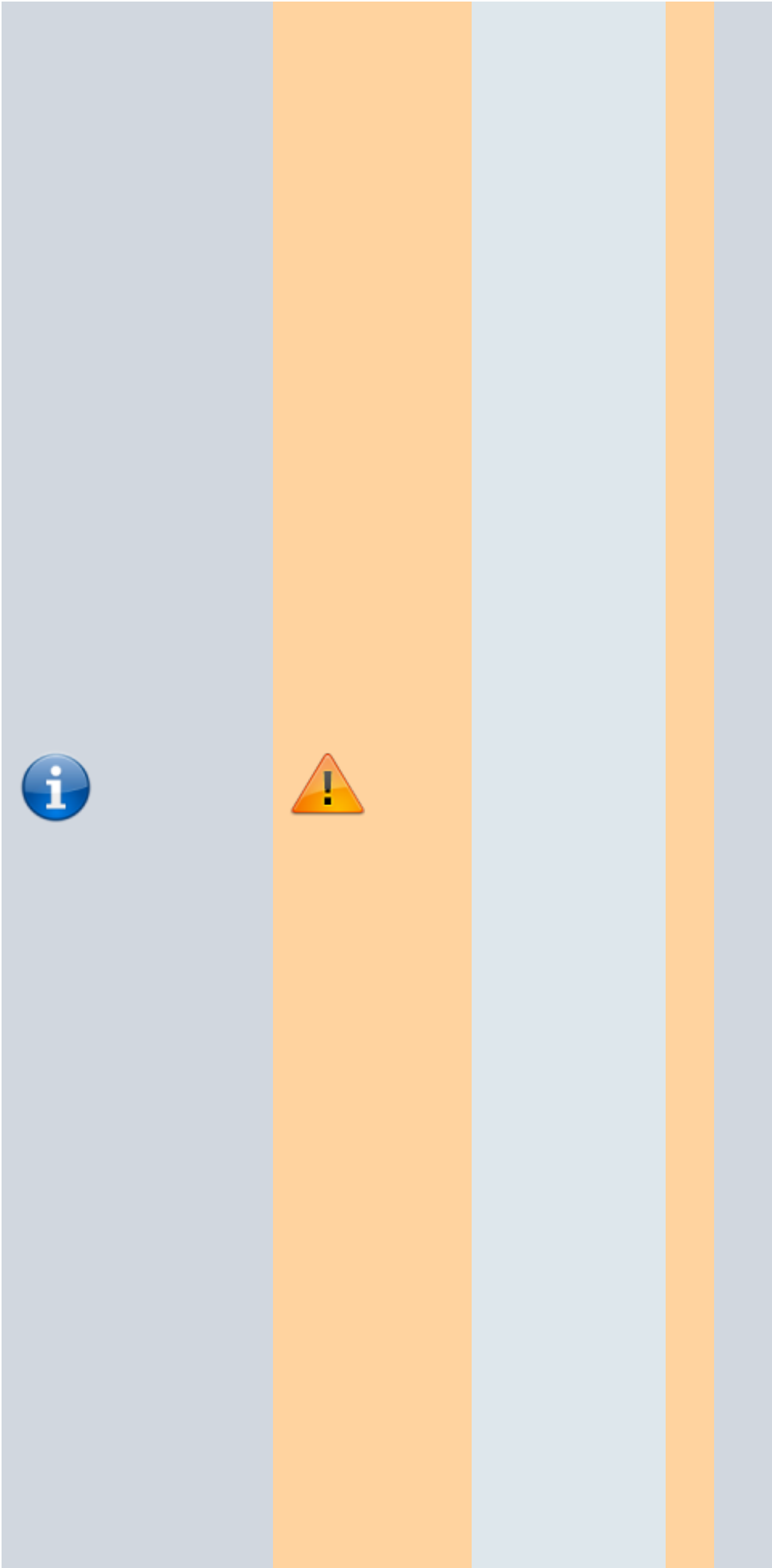
i  
c  
·  
p  
h  
p  
?  
i  
d  
=  
2  
4  
6  
6  
4  
9  
h  
t  
t  
p  
s  
:  
/  
/  
a  
s  
k  
u  
b  
u  
n  
t  
u  
·  
c  
o  
m  
/  
q  
u  
e  
s  
t  
i  
o  
n  
s  
/  
1  
0



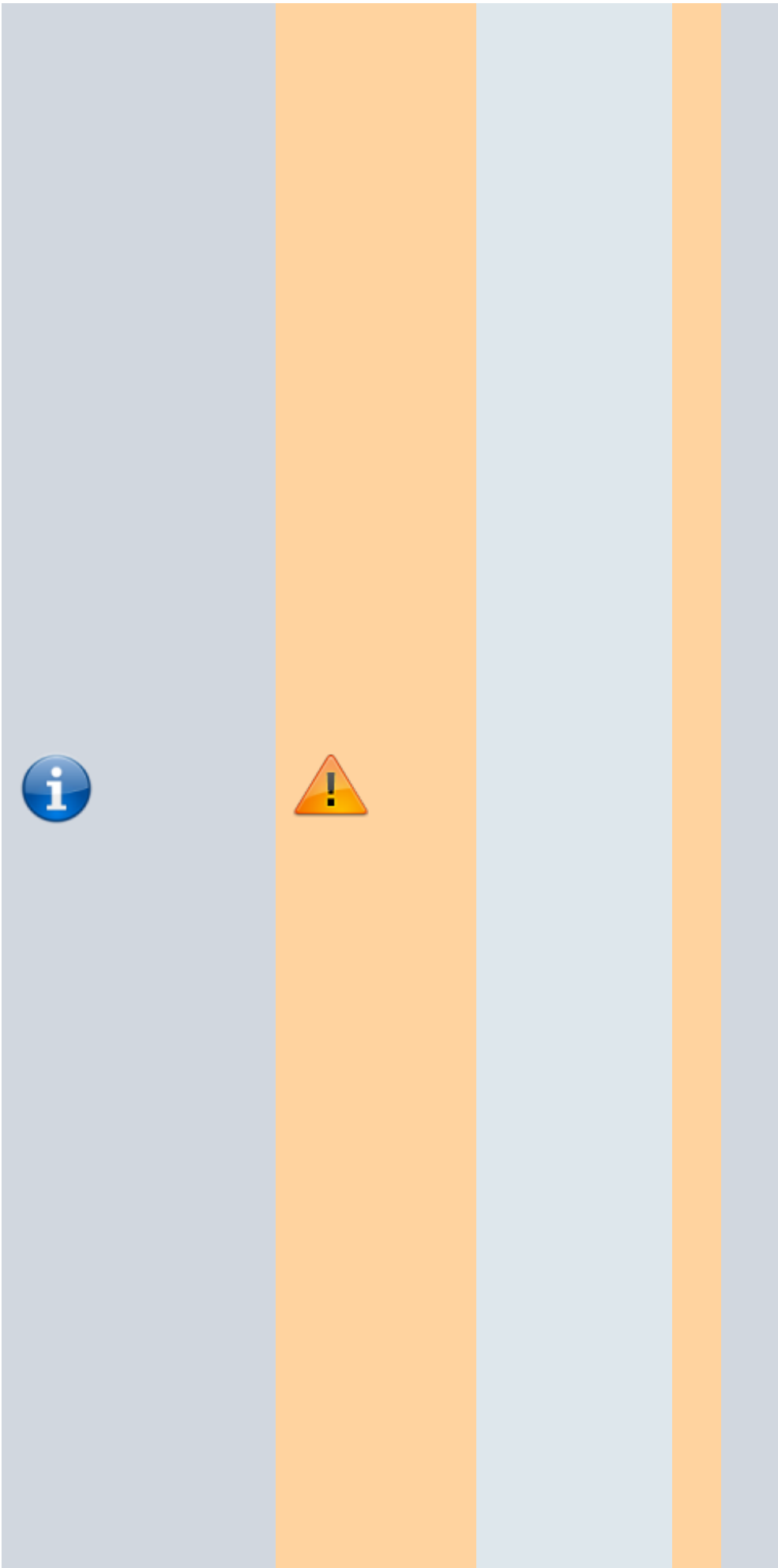
1  
2  
6  
4  
1  
/  
d  
n  
s  
-  
s  
e  
t  
-  
t  
o  
-  
s  
y  
s  
t  
e  
m  
d  
s  
-  
1  
2  
7  
-  
0  
-  
0  
-  
5  
3  
-  
h  
o  
w  
-  
t  
o  
-  
c  
h  
a  
n  
g  
e  
-



p  
e  
r  
m  
a  
n  
e  
n  
t  
l  
y  
h  
t  
t  
p  
s  
:  
/  
/  
a  
s  
k  
u  
b  
u  
n  
t  
u  
.  
c  
o  
m  
/  
q  
u  
e  
s  
t  
i  
o  
n  
s  
/  
8  
9  
8  
6  
0  
5  
/  
/

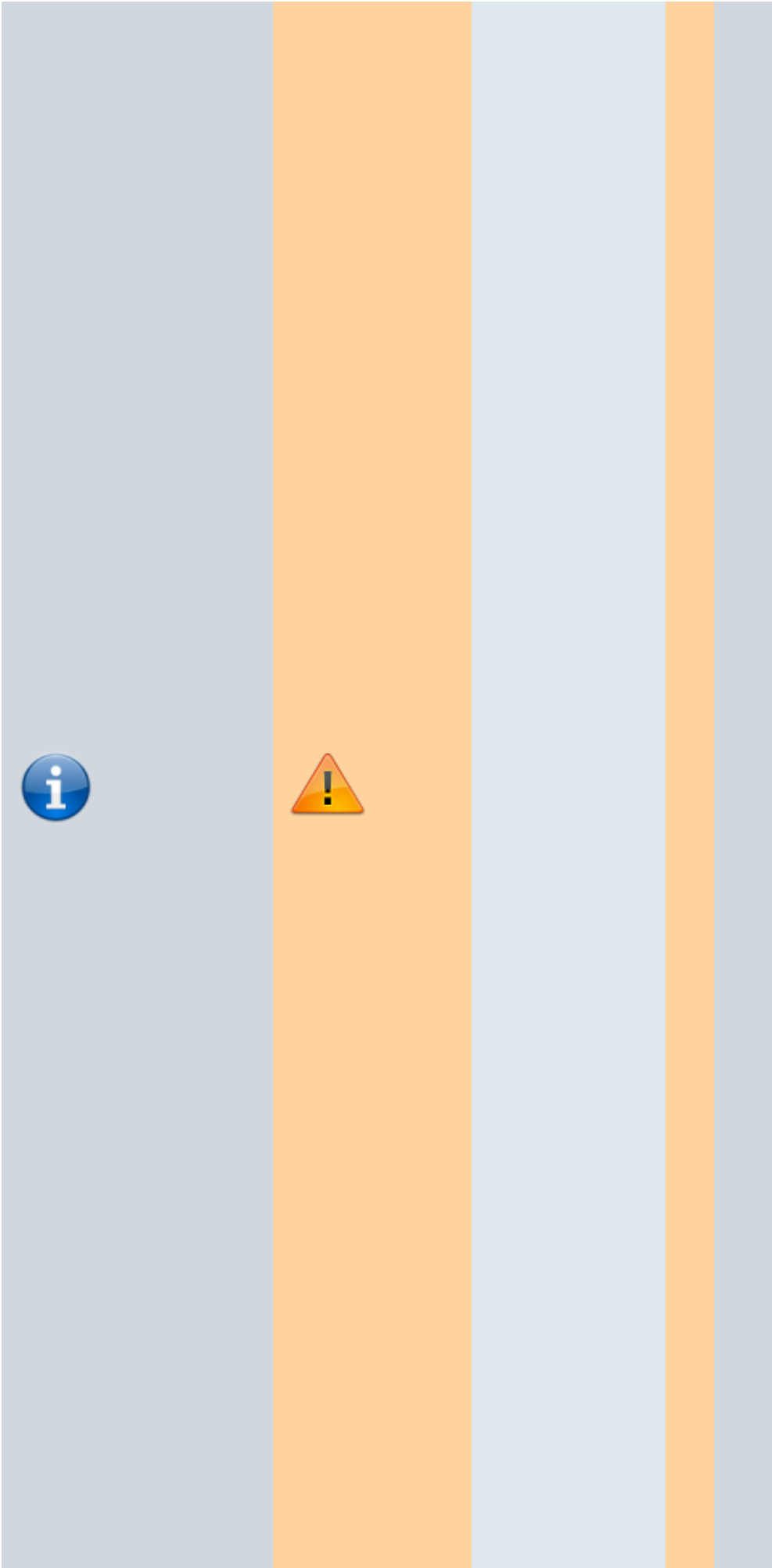


h  
o  
w  
-  
t  
o  
-  
d  
i  
s  
a  
b  
l  
e  
-  
s  
y  
s  
t  
e  
m  
d  
-  
r  
e  
s  
o  
l  
v  
e  
d  
-  
a  
n  
d  
-  
r  
e  
s  
o  
l  
v  
e  
-  
d  
n  
s  
-  
w  
i  
t

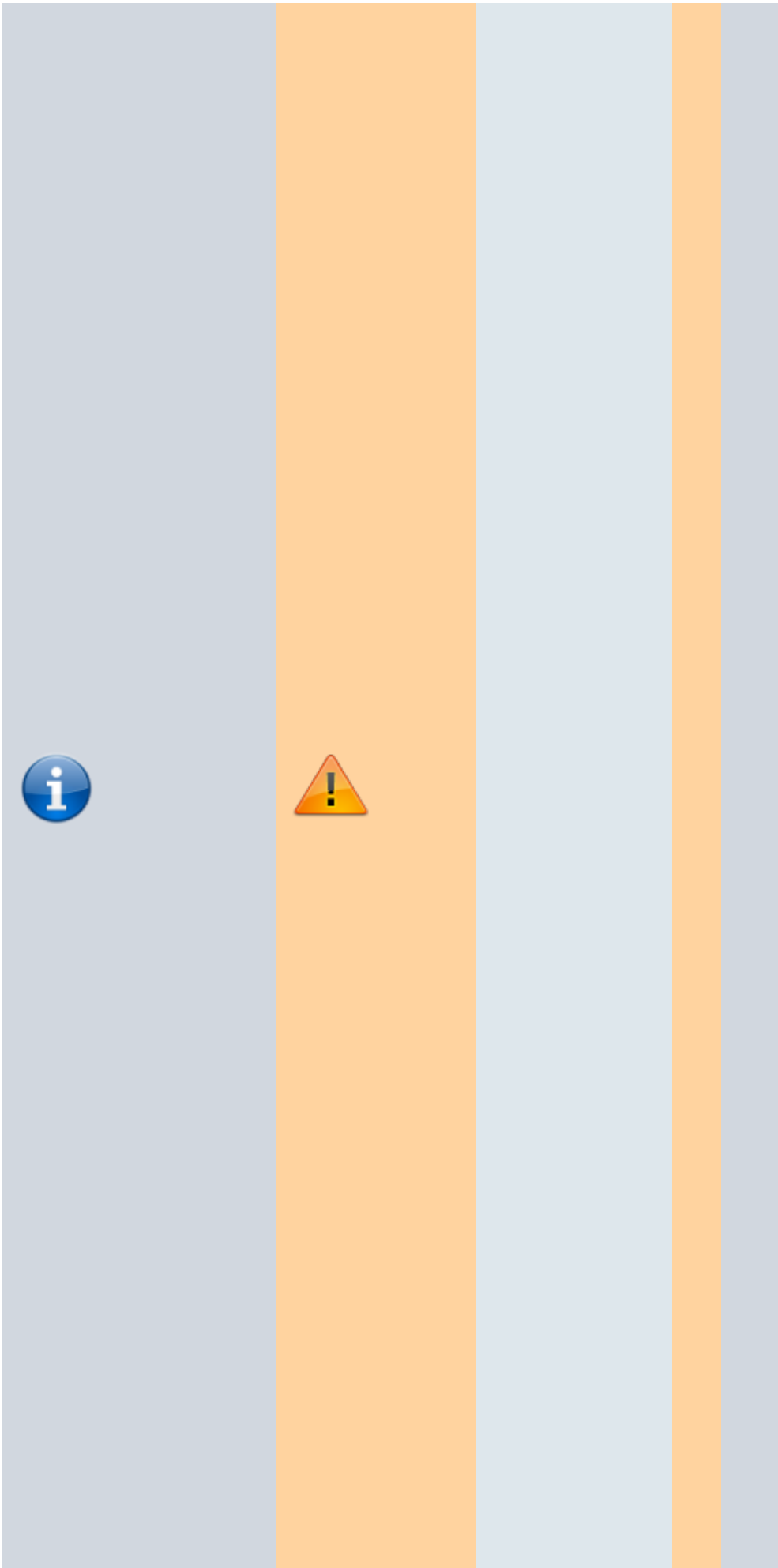


h  
-  
d  
n  
s  
m  
a  
s  
q  
  
P  
r  
o  
b  
l  
è  
m  
e  
s  
r  
e  
n  
c  
o  
n  
t  
r  
é  
s

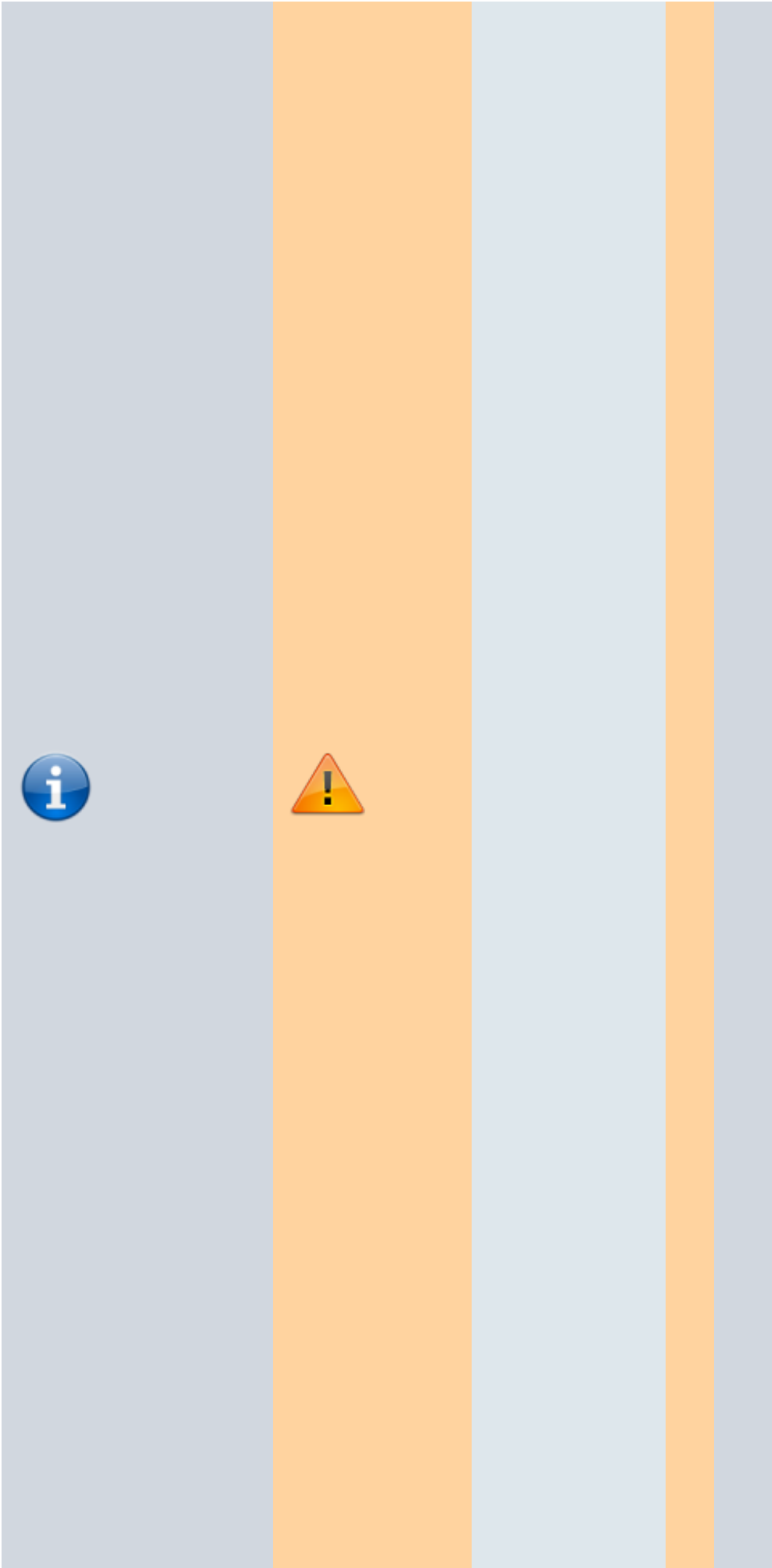
•  
C  
o  
m  
m  
e  
n  
t  
é  
v  
i  
t  
e  
r  
l  
e  
s  
c



o  
n  
f  
i  
t  
s  
e  
n  
t  
r  
e  
d  
n  
s  
m  
a  
s  
q  
e  
t  
s  
y  
s  
t  
e  
m  
d  
-  
r  
e  
s  
o  
l  
v  
e  
d  
?  
•  
D  
N  
S  
M  
a  
s  
q  
:  
U  
t  
i  
l  
i

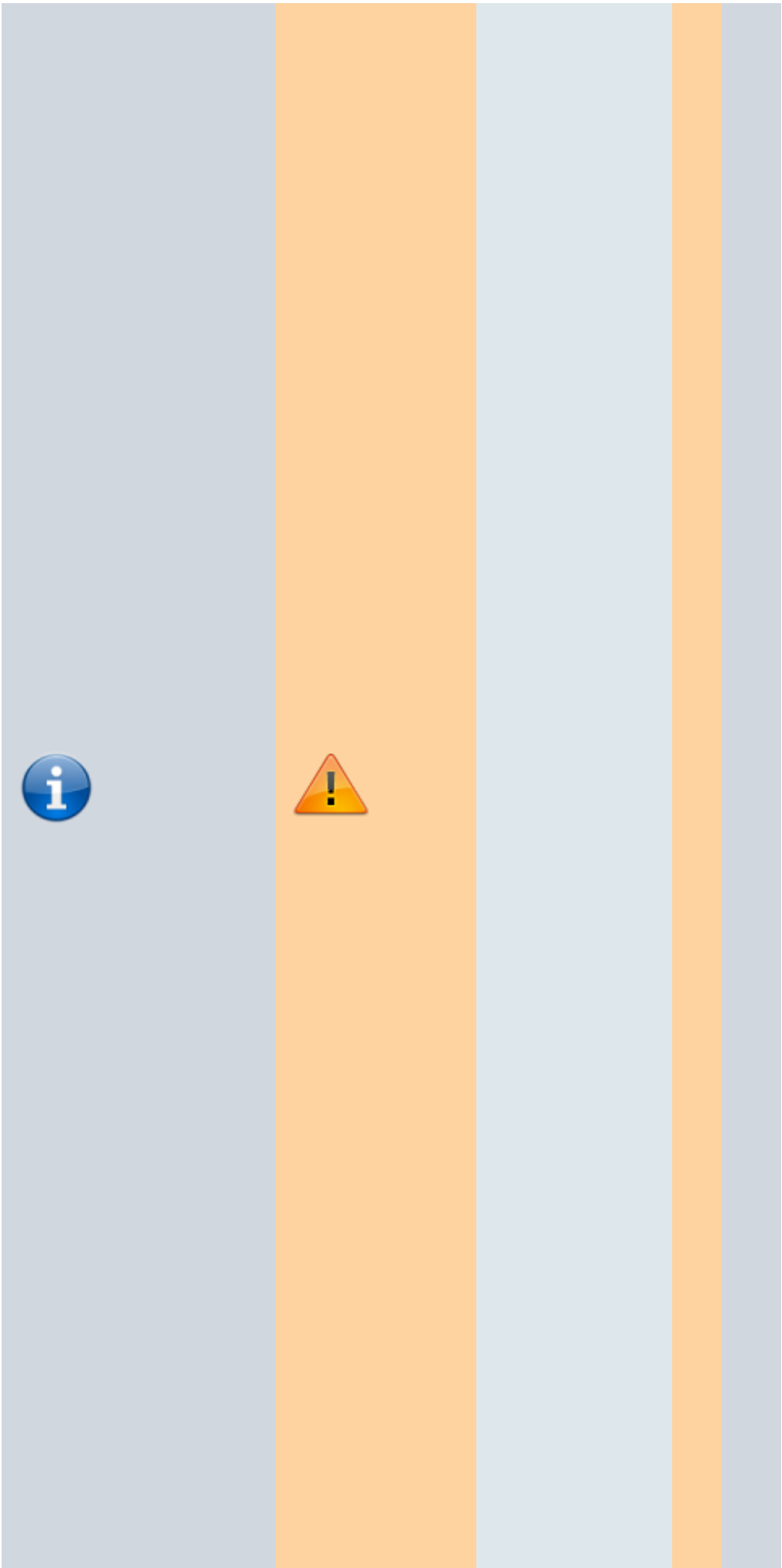


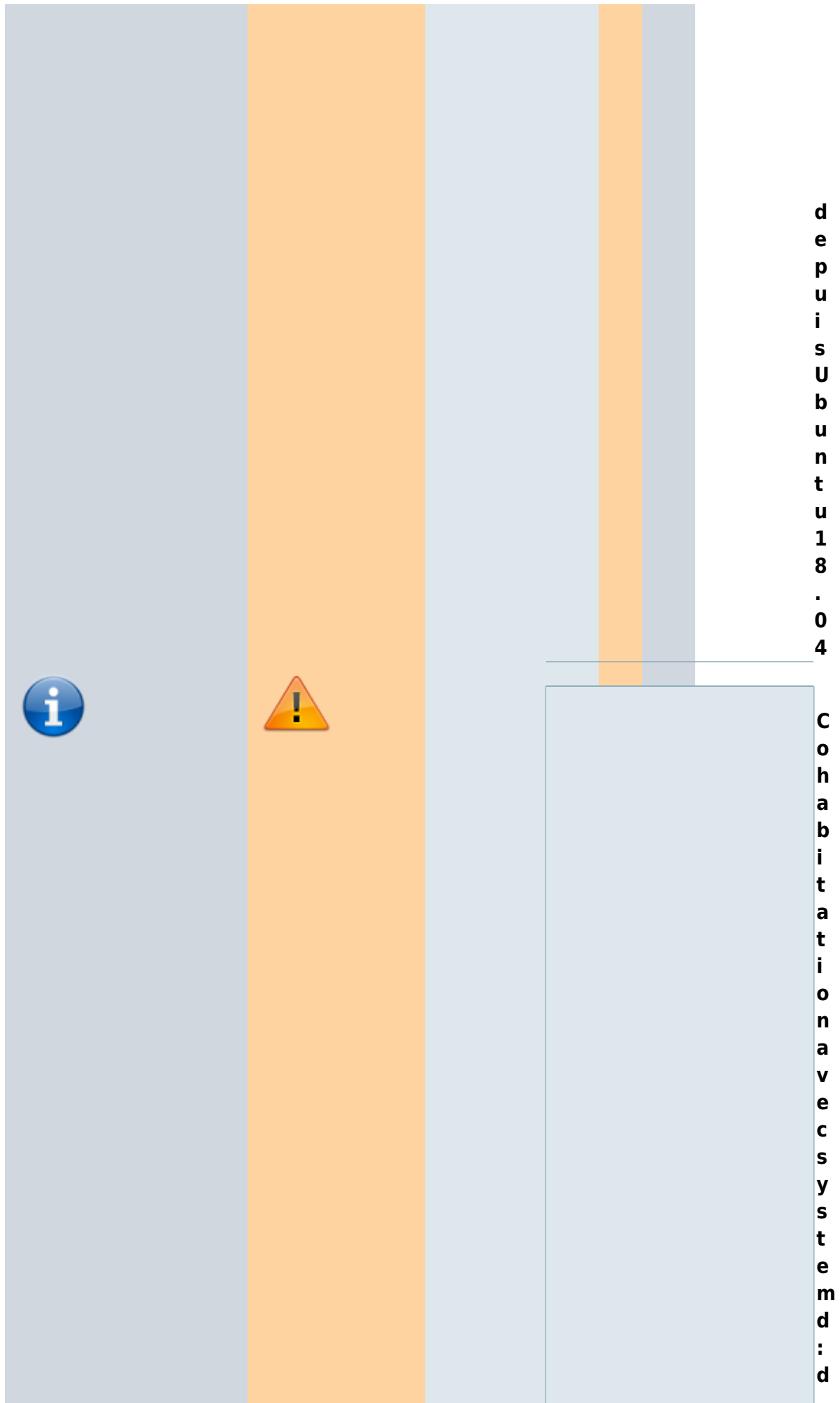
**Q  
u  
e  
s  
t  
i  
o  
n**



S  
e  
t  
R  
é  
p  
o  
n  
s  
e  
s

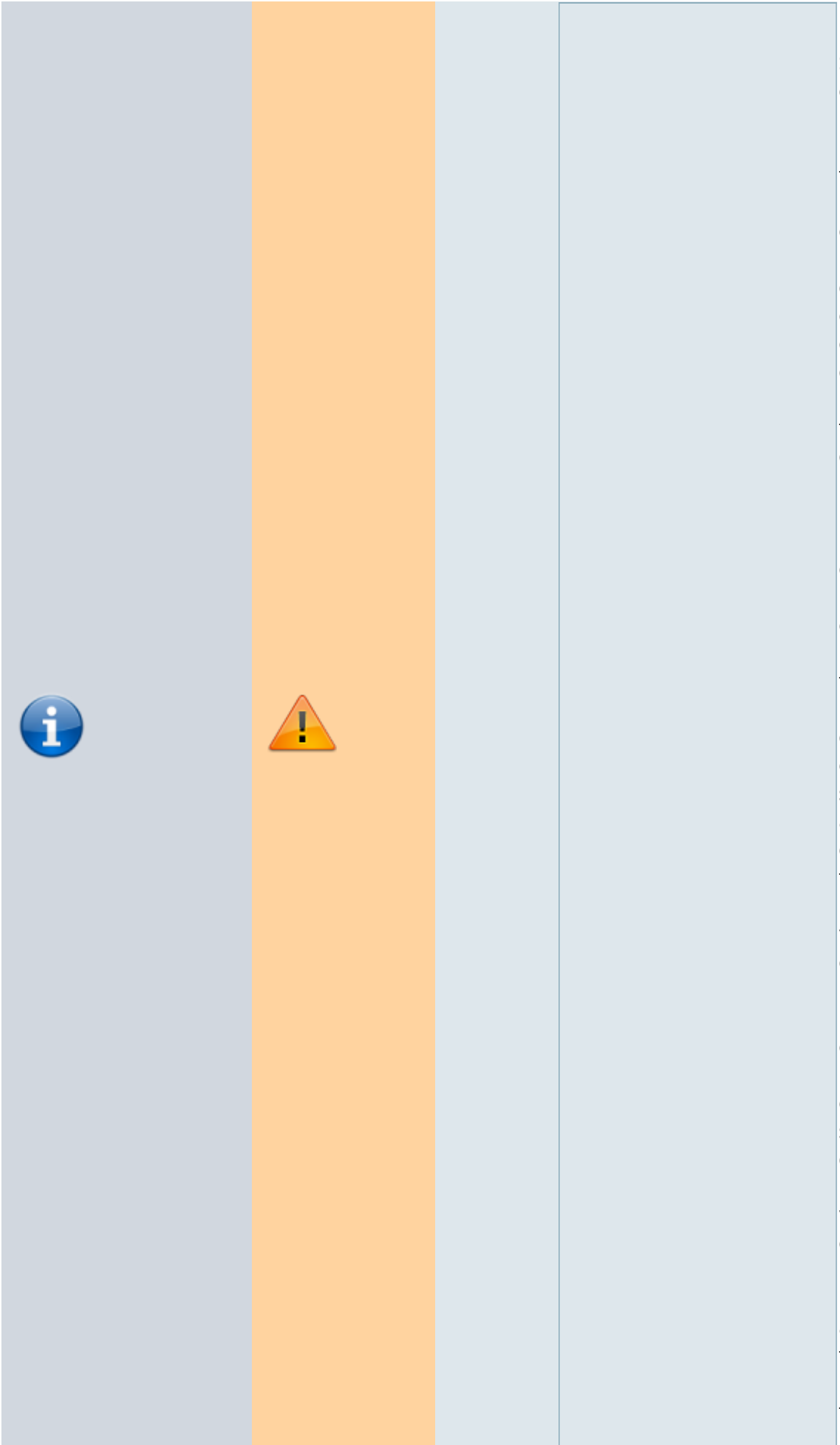
• d  
e  
p  
u  
i  
s  
U  
b  
u  
n  
t  
u  
1  
8  
.  
0  
4



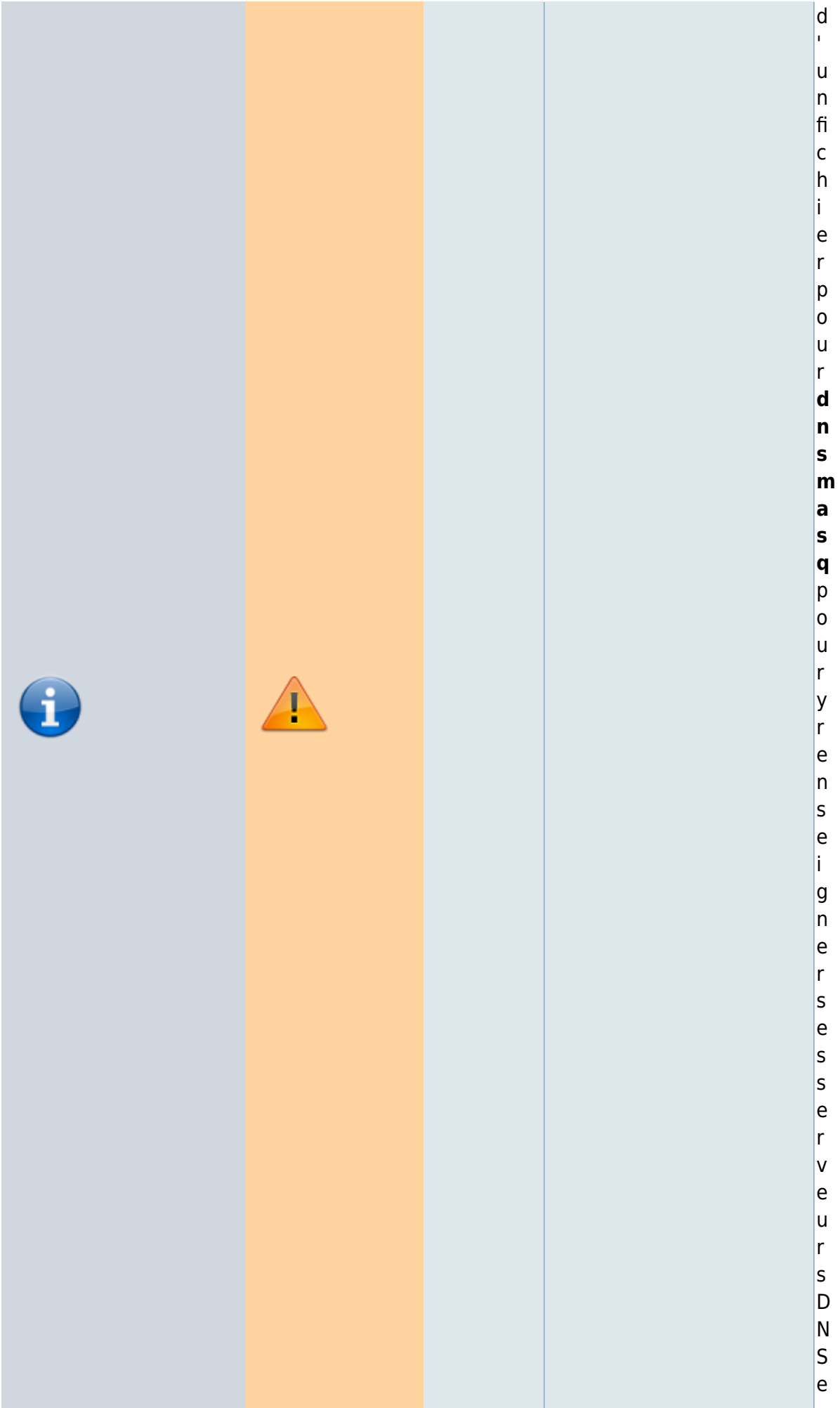


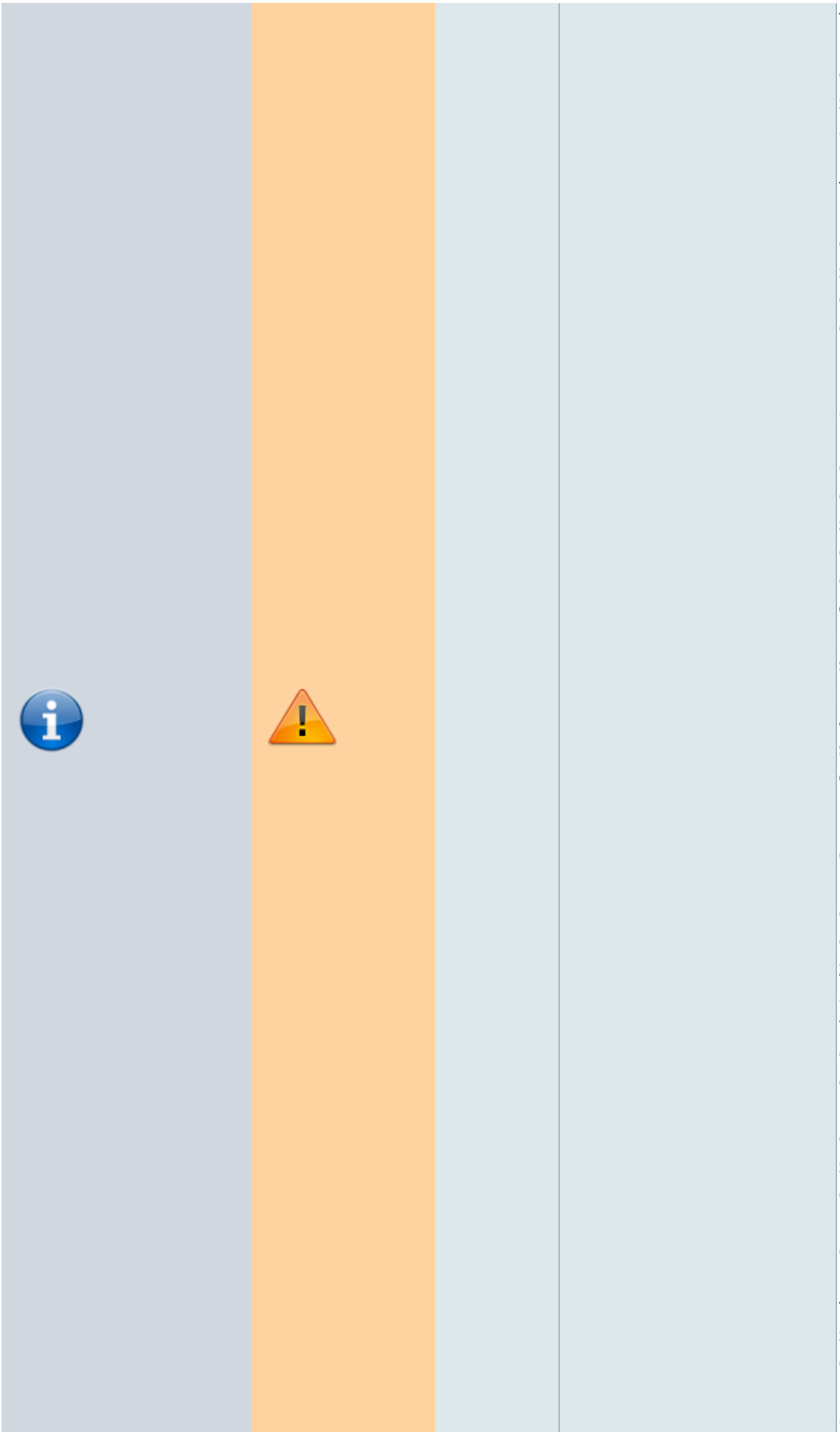
The image shows a vertical bar composed of four segments. From left to right: a light blue segment with a blue information icon (a lowercase 'i' in a circle); an orange segment with a yellow warning icon (a triangle with an exclamation mark); a light blue segment; and a final light blue segment. At the bottom right of the final light blue segment, there is a small horizontal bar with an orange section on the left and a grey section on the right.

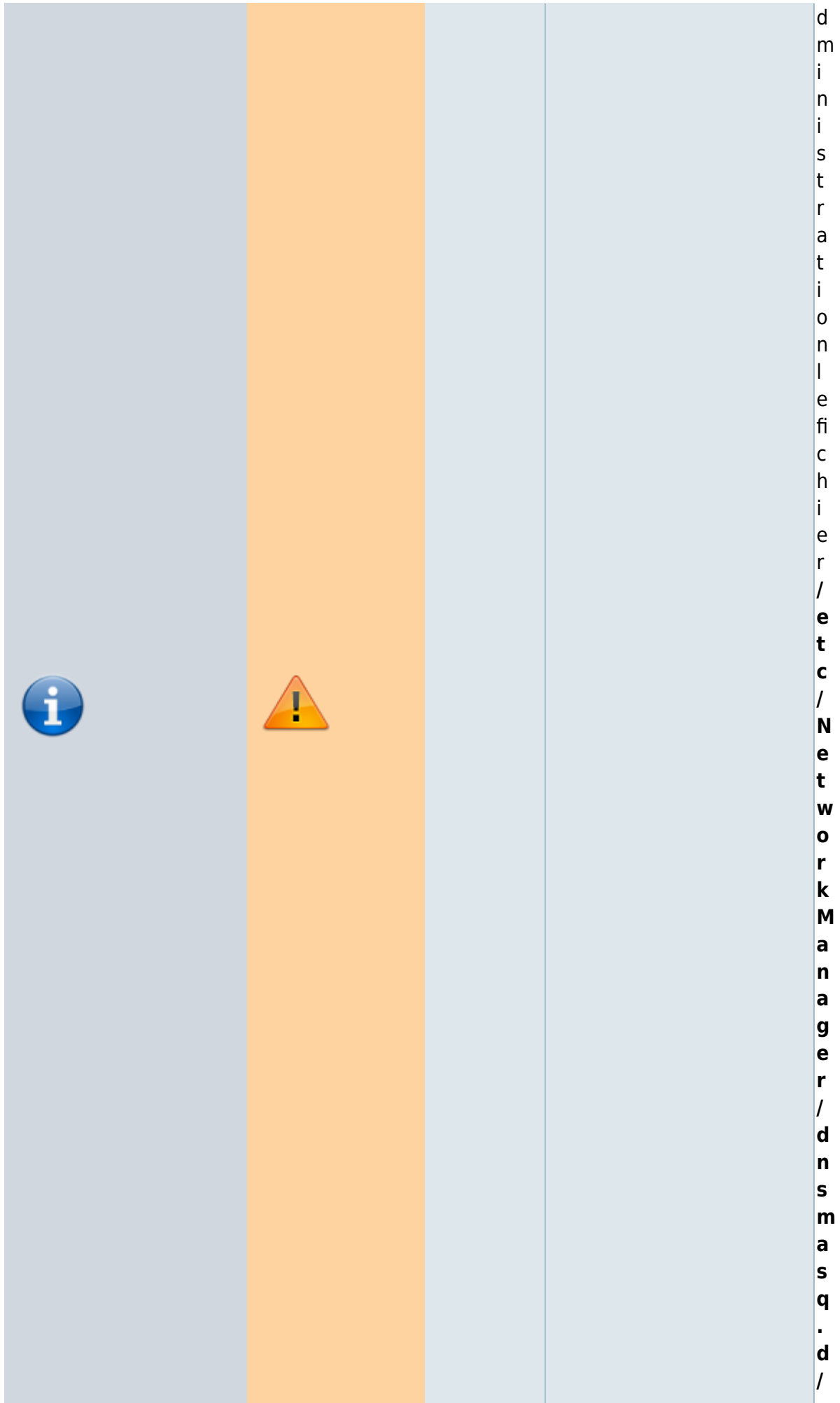
e  
p  
u  
i  
s  
U  
b  
u  
n  
t  
u  
1  
8  
.0  
4  
,  
d  
n  
s  
m  
a  
s  
q  
n  
e  
f  
a  
i  
t  
p  
l  
u  
s  
d  
e  
r  
é  
s  
o  
l  
u  
t  
i  
o  
n  
D  
N  
S





The banner consists of a light blue background with a central vertical orange stripe. On the left side of the blue area is a blue circular icon with a white lowercase letter 'i'. On the orange stripe is a yellow triangular warning icon with a black exclamation mark. On the right side of the banner, the text 'systemd-resolved.service' is written vertically in a bold, black, sans-serif font, with the letters 's', 'y', 's', 't', 'e', 'm', 'd', '-', 'r', 'e', 's', 'o', 'l', 'v', 'e', 'd', '.', 's', 'e', 'r', 'v', 'i', 'c', 'e' stacked vertically.









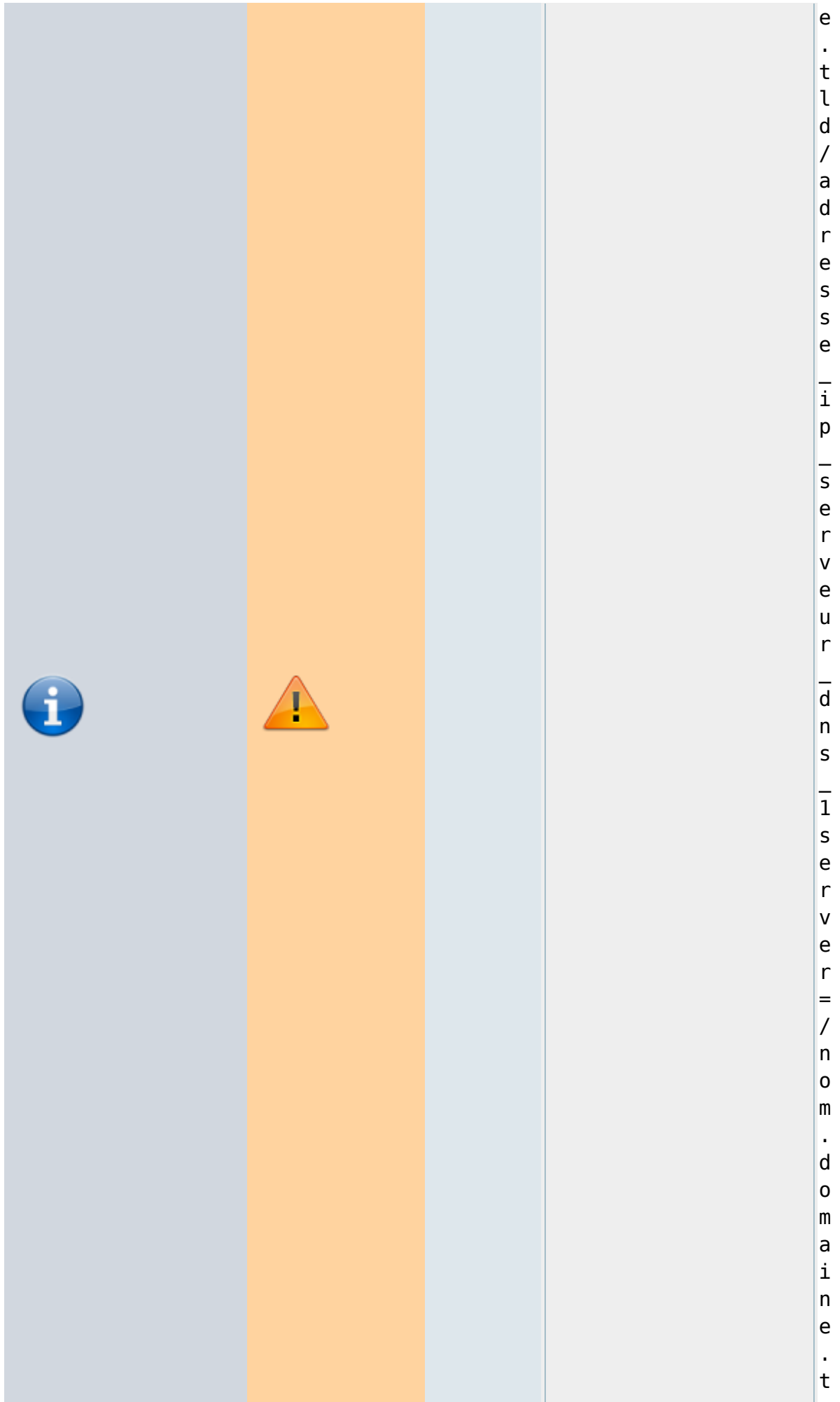
			
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	--	--



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

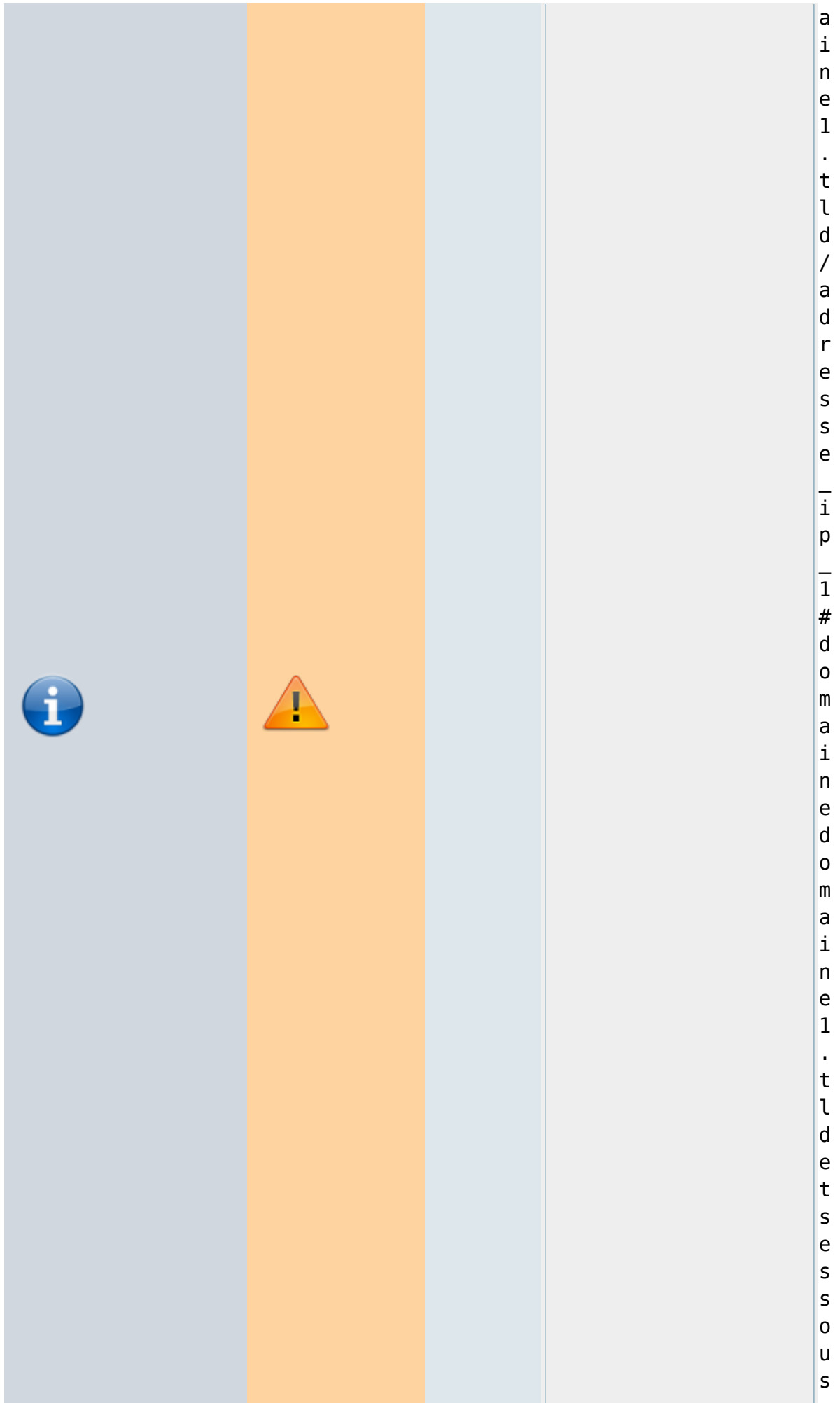
m  
a  
s  
q  
.  
d  
/  
m  
o  
n  
r  
e  
s  
o  
l  
v  
.  
c  
o  
n  
f

c  
a  
c  
h  
e  
-  
s  
i  
z  
e  
=  
1  
0  
0  
0  
e  
x  
c  
e  
p  
t  
-  
i  
n  
t  
e  
r  
f  
a



			c e = l o s e r v e r = / l o c a l h o s t / 1 2 7 . 0 . 0 . 1 s e r v e r = / n o m . d o m a i n
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



			l d / a d r e s s e - i p - s e r v e u r - d n s - 2 # a d r e s s e s : a d d r e s s = / d o m
			



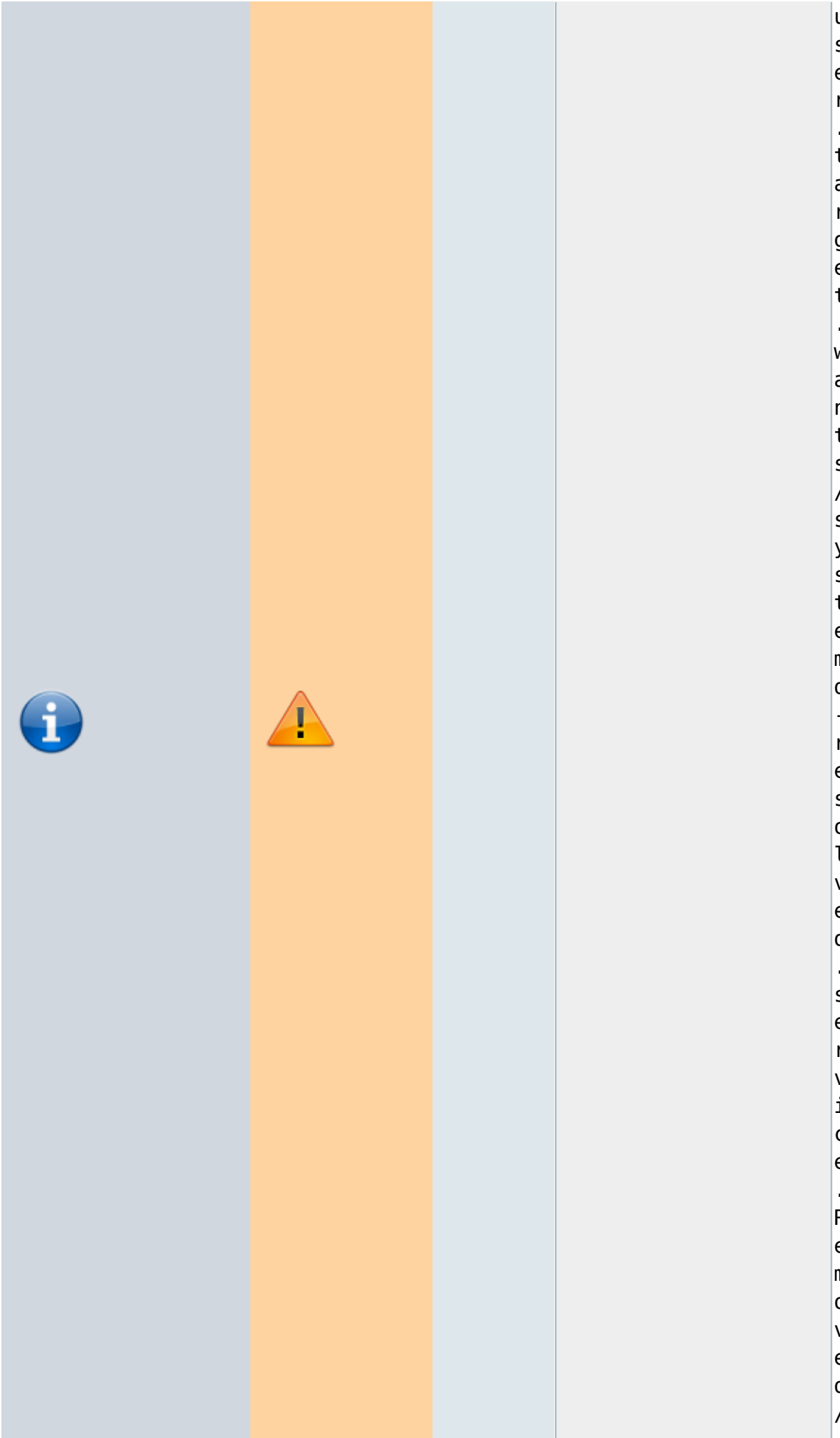
a  
i  
n  
e  
l  
.t  
t  
l  
d  
/  
a  
d  
r  
e  
s  
s  
e  
\_  
i  
p  
\_  
l  
#  
d  
o  
m  
a  
i  
n  
e  
d  
o  
m  
a  
i  
n  
e  
l  
.t  
t  
l  
d  
e  
t  
s  
e  
s  
s  
o  
u  
s

			- d o m a i n e s * . d o m a i n e l . t l d  S t o p p e z e t d é s a c t i v e z l e s e r v i
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

The image shows a vertical bar composed of four distinct colored sections. From top to bottom, 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 light blue sections are narrower and contain a blue circular information icon with a white lowercase 'i'. The light grey section is the narrowest and is located at the bottom of the bar.

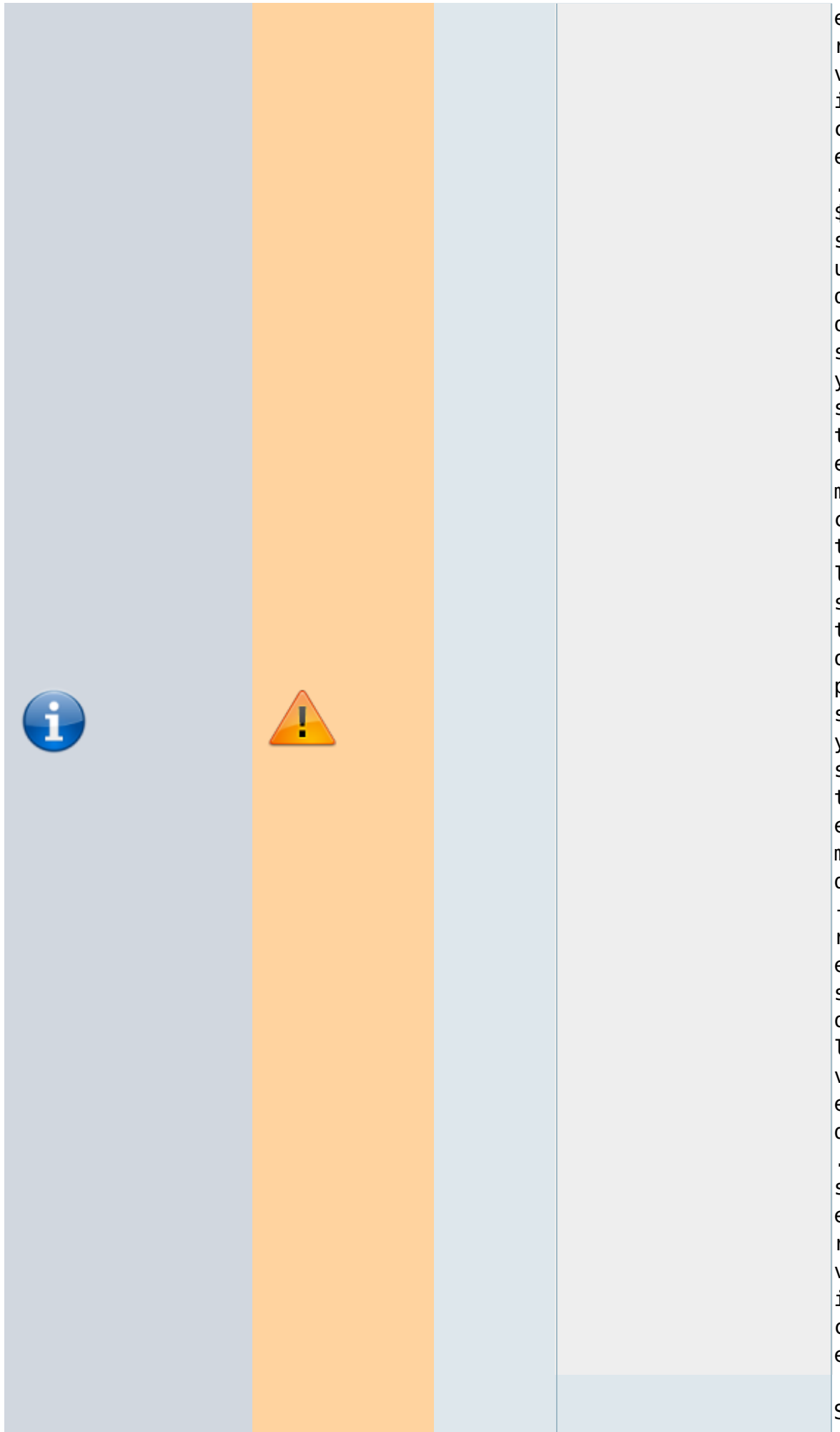
c  
e  
s  
y  
s  
t  
e  
m  
d  
-  
r  
e  
s  
o  
l  
v  
e  
d  
:  
\$  
s  
u  
d  
o  
s  
y  
s  
t  
e  
m  
c  
t  
l  
d  
i  
s  
a  
b  
l  
e  
s  
y  
s  
t  
e  
m  
d  
-  
r  
e



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 that reads "S o l v e d . s e r v i c e . . . R e m o v e d / e t c / s y s t e m d / s y s t e m / m u l t i -".



The navigation bar consists of four vertical segments:

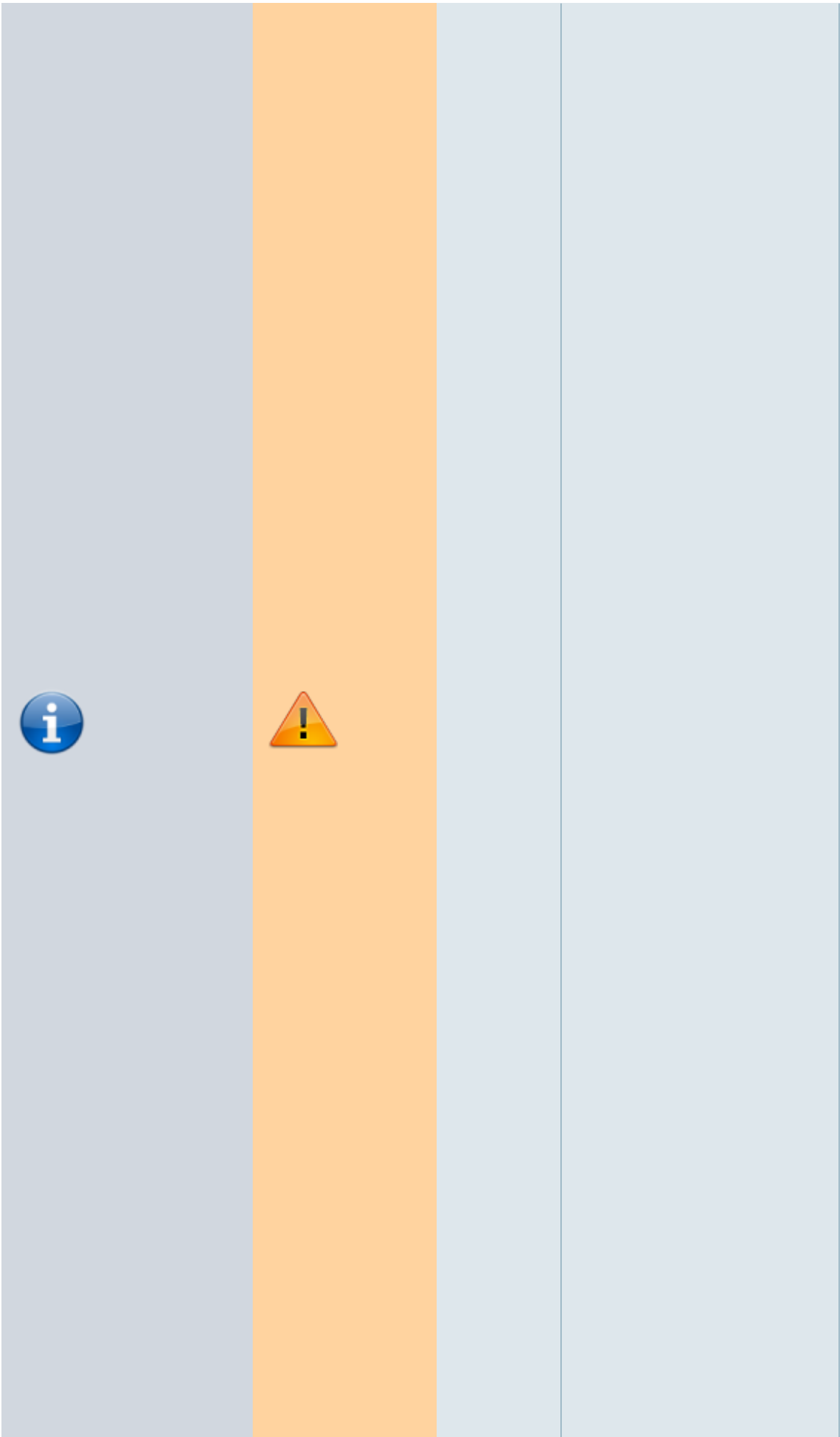
- Light blue segment: Contains a blue circular icon with a white lowercase letter 'i'.
- Orange segment: Contains a yellow triangular warning icon with a black exclamation mark.
- Light blue segment: Contains no icon.
- Light grey segment: Contains a vertical list of system paths: `etc/systemd/system/dbus-org.freedesktopsktoper.resolve.s`

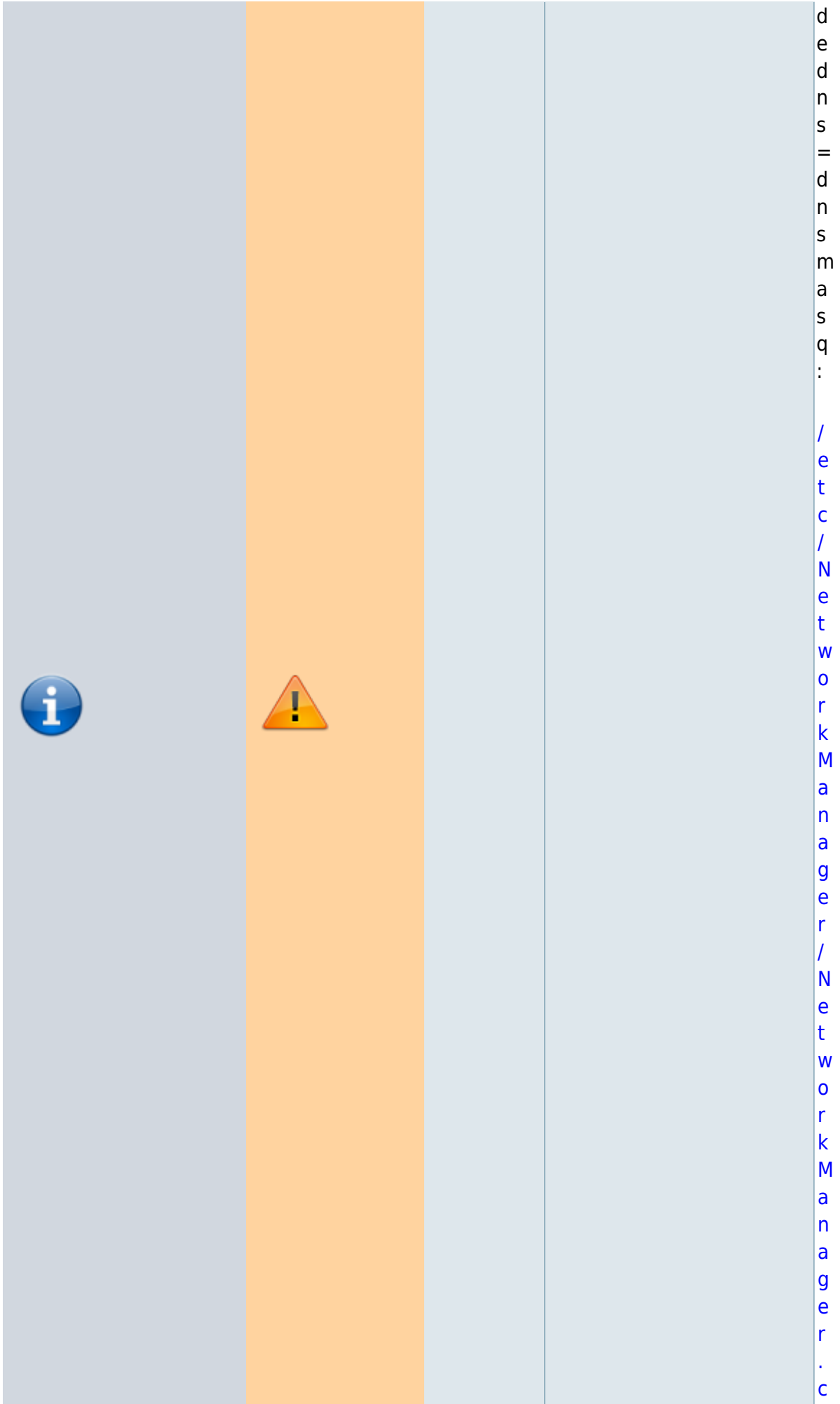


				
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	--	--	--



u  
p  
p  
r  
i  
m  
e  
z  
l  
e  
f  
i  
c  
h  
i  
e  
r  
r  
e  
s  
o  
l  
v  
.  
c  
o  
n  
f  
:  
\$  
s  
u  
d  
o  
r  
m  
/  
e  
t  
c  
/  
r  
e  
s  
o  
l  
v  
.  
c  
o

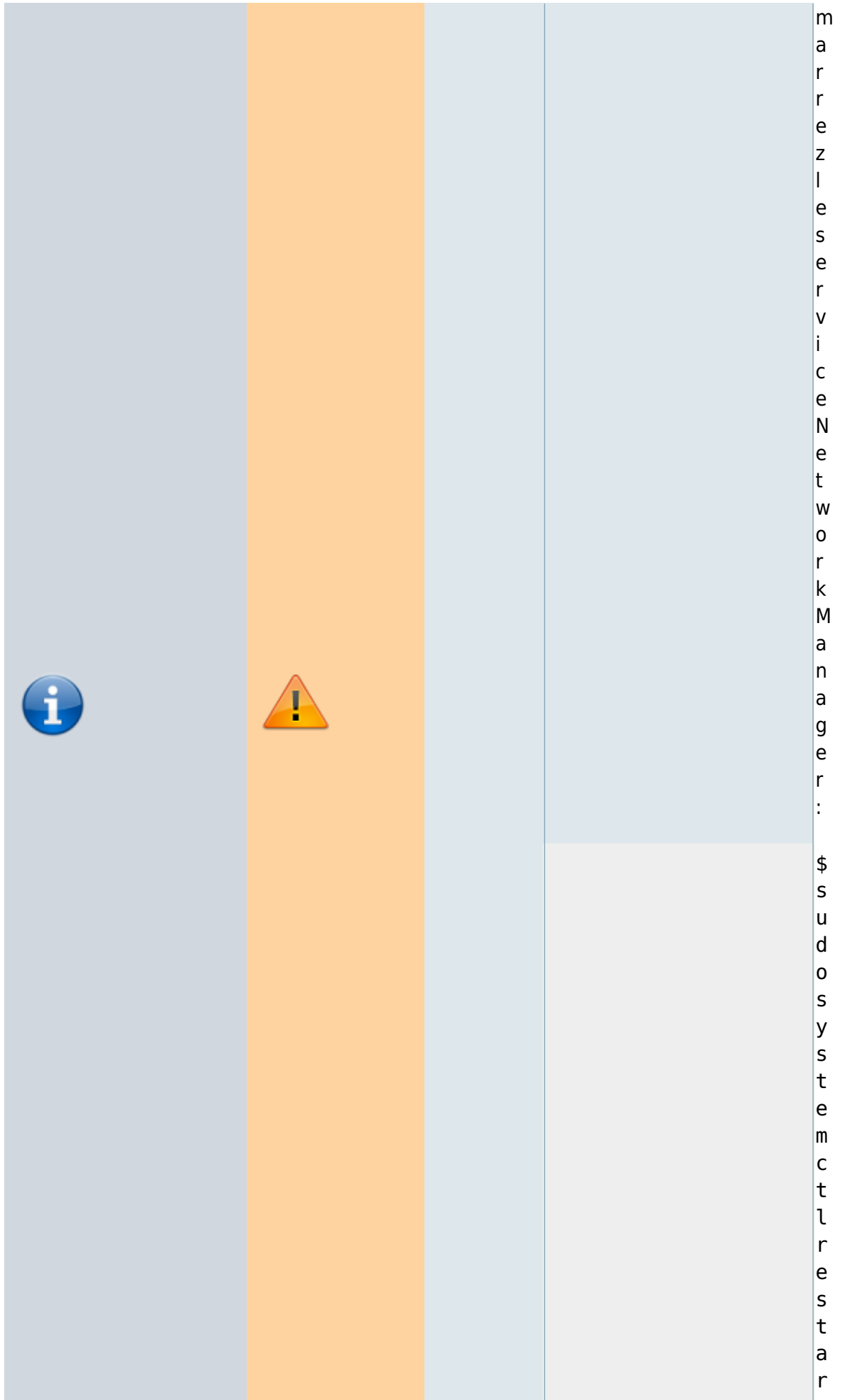
nf  
É  
d  
i  
t  
e  
z  
a  
v  
e  
c  
l  
e  
s  
d  
r  
o  
i  
t  
s  
d  
'  
a  
d  
m  
i  
n  
i  
s  
t  
r  
a  
t  
i  
o  
n  
l  
e  
f  
i  
c  
h  
i  
e  
r  
/  
**e**  
**t**  
**c**  
/







d  
e  
d  
n  
s  
=  
d  
n  
s  
m  
a  
s  
q  
:  
  
/  
e  
t  
c  
/  
N  
e  
t  
w  
o  
r  
k  
M  
a  
n  
a  
g  
e  
r  
/  
N  
e  
t  
w  
o  
r  
k  
M  
a  
n  
a  
g  
e  
r  
.  
c



			<p>o n f</p> <p>[ m a i n ] p l u g i n s = i f u p d o w n , k e y f i l e d n s = d n s m a s q</p> <p>R e d é</p>
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



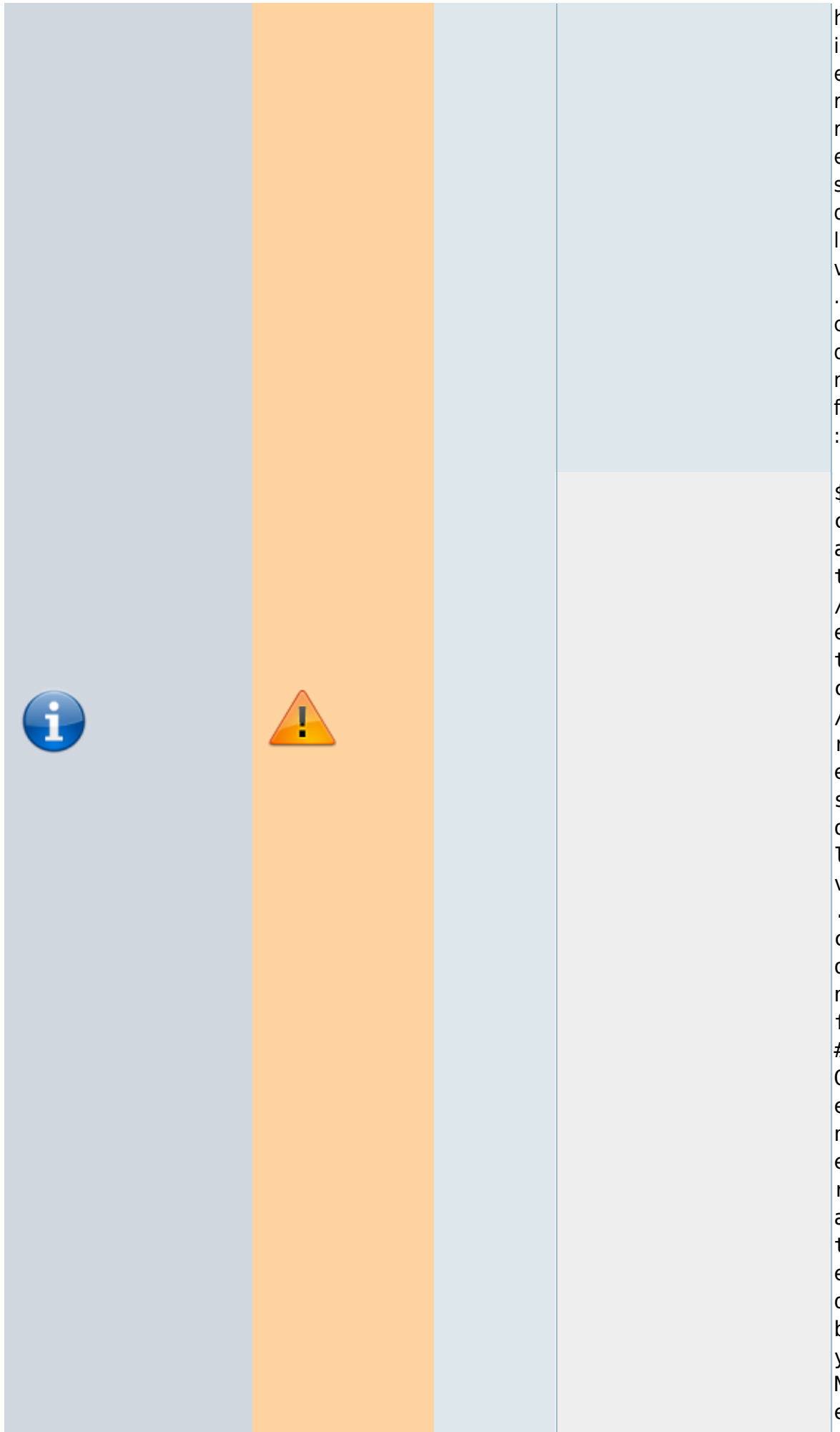
			
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	--	--

t  
N  
e  
t  
w  
o  
r  
k  
M  
a  
n  
a  
g  
e  
r  
  
V  
é  
r  
i  
f  
i  
e  
z  
q  
u  
e  
l  
e  
s  
e  
r  
v  
i  
c  
e  
d  
n  
s  
m  
a  
s  
q  
e  
s  
t  
b  
i  
e  
n  
l


The image shows a vertical bar composed of four distinct colored 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 first light blue section, there is a blue circular icon with a white lowercase letter 'i'. The light grey section on the right contains a vertical list 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 aligned to the right edge of the grey section.

			
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	--	--

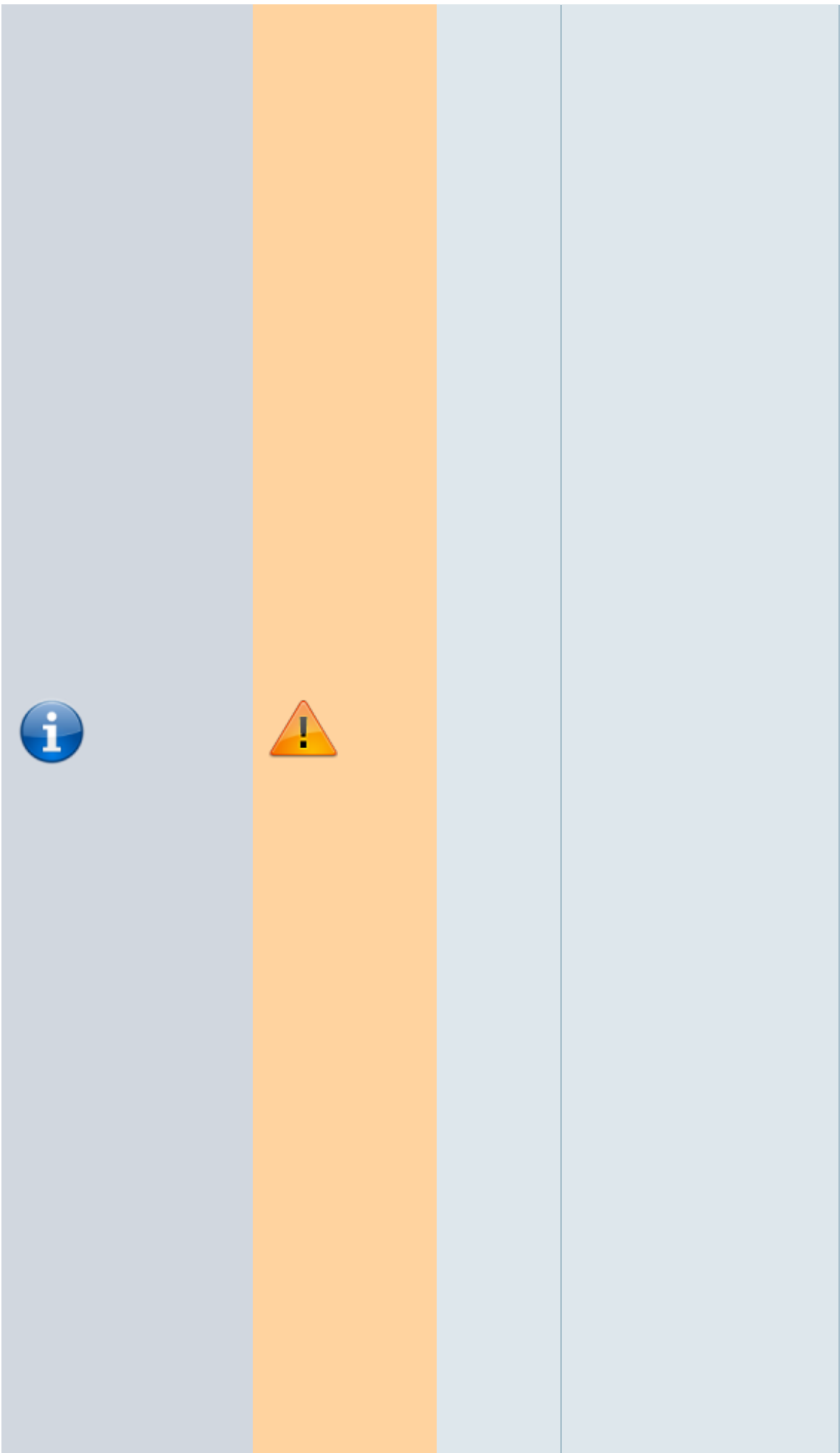
5  
7  
p  
t  
s  
/  
0  
0  
0  
:  
0  
0  
:  
0  
0  
g  
r  
e  
p  
-  
-  
c  
o  
l  
o  
r  
=  
a  
u  
t  
o  
d  
n  
s  
m  
a  
s  
q  
  
V  
é  
r  
i  
f  
i  
e  
z  
l  
e  
f  
i  
c



h  
i  
e  
r  
r  
e  
s  
o  
l  
v  
.  
c  
o  
n  
f  
:  
\$  
c  
a  
t  
/  
e  
t  
c  
/  
r  
e  
s  
o  
l  
v  
.  
c  
o  
n  
f  
#  
G  
e  
n  
e  
r  
a  
t  
e  
d  
b  
y  
N  
e

			
-------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	--	--

t  
w  
o  
r  
k  
M  
a  
n  
a  
g  
e  
r  
n  
a  
m  
e  
s  
e  
r  
v  
e  
r  
1  
2  
7  
.0  
.1  
.1  
s  
o  
u  
r  
c  
e  
:  
<https://www.nfrappe.fr/doc-0/doku.php?id=logiciel:internet:dnsmaq:raspi:start>



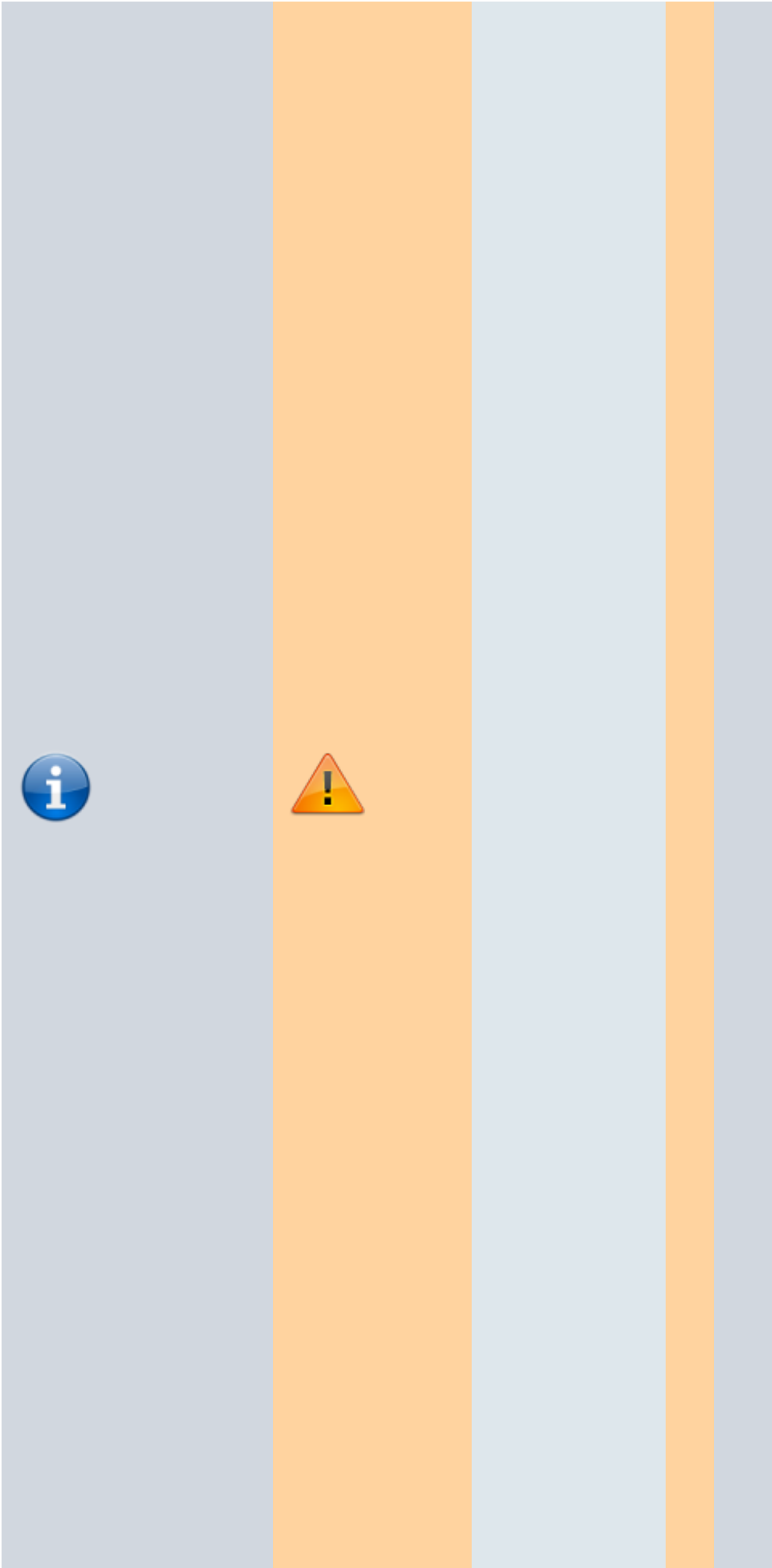
i  
z  
e  
r  
o  
.  
f  
r  
/  
l  
i  
n  
u  
x  
-  
r  
e  
m  
p  
l  
a  
c  
e  
r  
-  
r  
e  
s  
o  
l  
v  
e  
r  
-  
d  
n  
s  
-  
s  
y  
s  
t  
e  
m  
d  
-  
r  
e  
s  
o  
l

v  
e  
d  
-  
p  
a  
r  
-  
d  
n  
s  
m  
a  
s  
q  
/

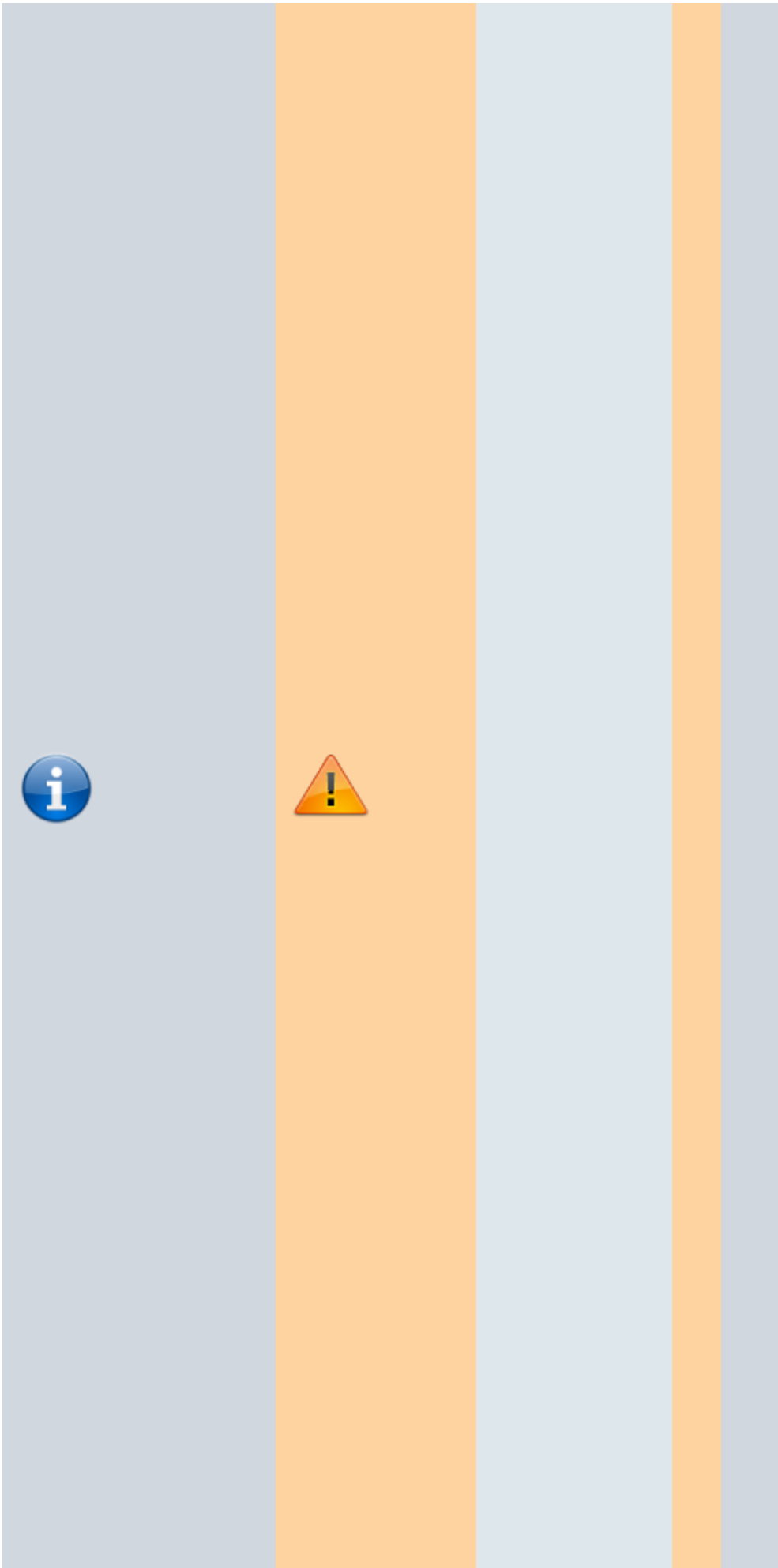


**D  
é  
s  
i  
n  
s  
t  
a  
l  
l  
a  
t  
i  
o  
n**

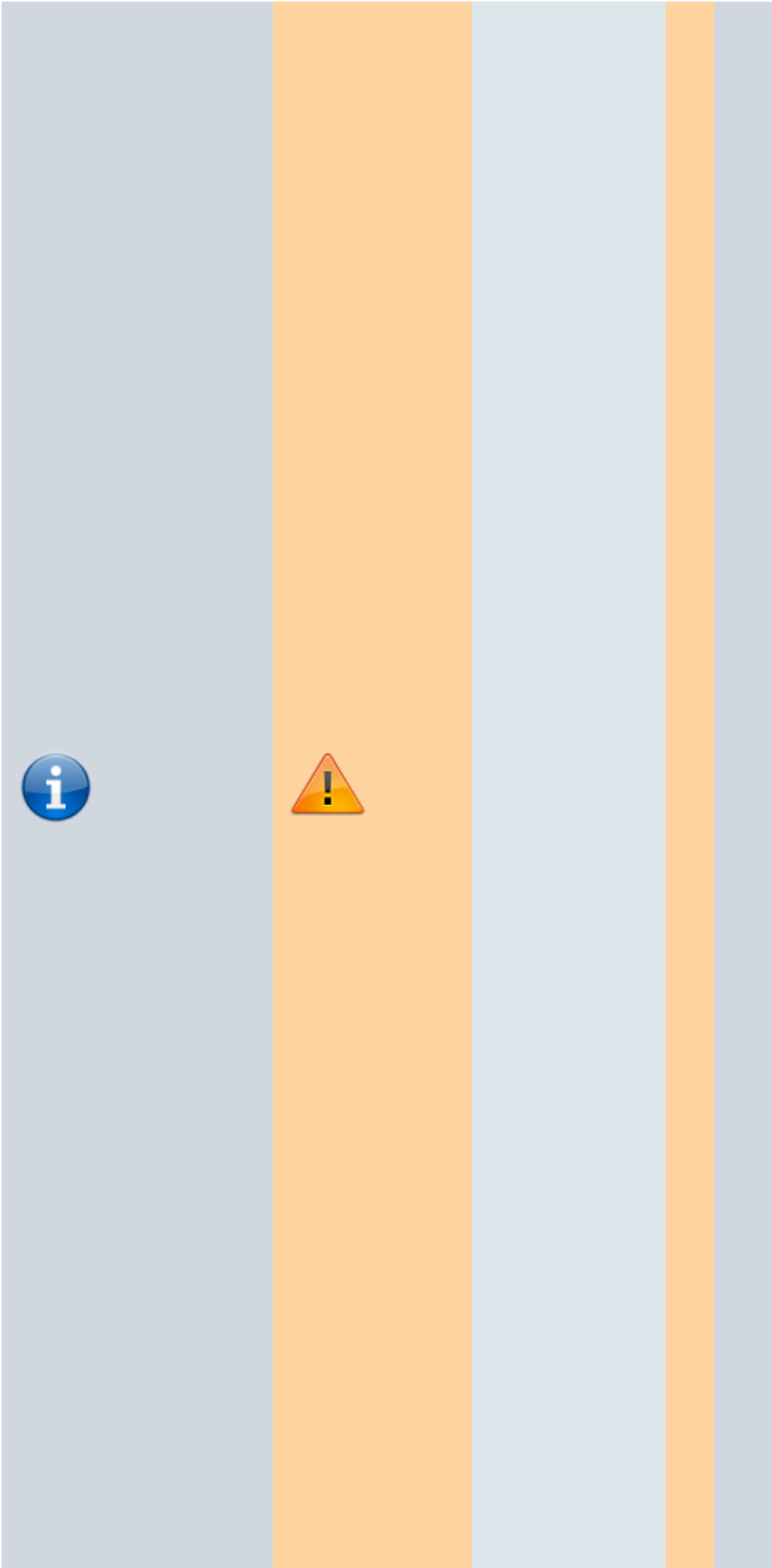
P  
o  
u  
r  
s  
u  
p



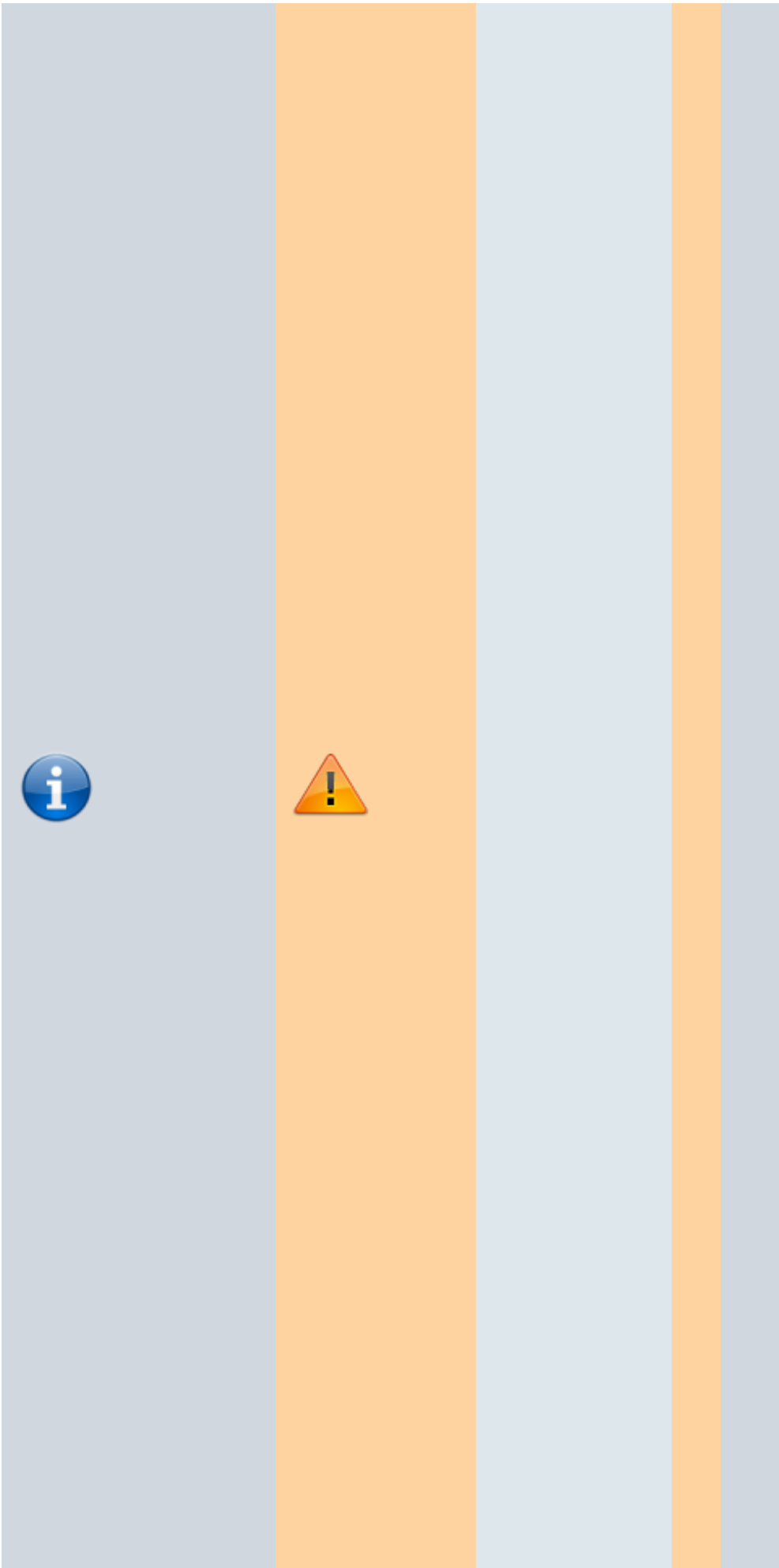
p  
r  
i  
m  
e  
r  
c  
e  
t  
t  
e  
a  
p  
p  
l  
i  
c  
a  
t  
i  
o  
n  
,  
i  
l  
s  
u  
f  
f  
i  
t  
d  
e  
s



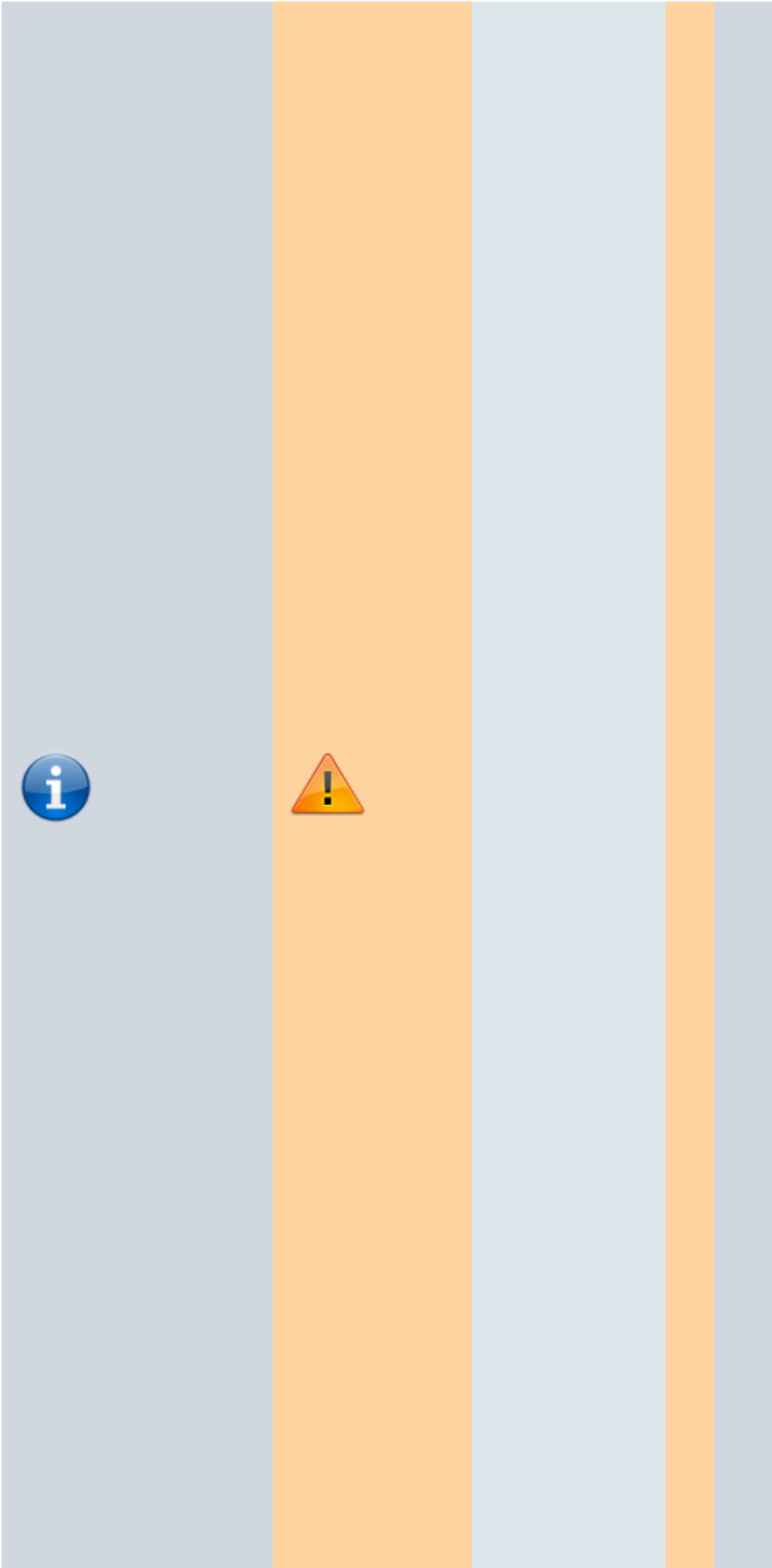
S  
e  
l  
o  
n  
l  
a  
m  
é  
t  
h  
o  
d  
e  
c  
h  
o  
i  
s  
i  
e  
,  
l  
a  
c  
o  
n  
f  
i  
g  
u  
r  
a  
t  
i  
o  
n  
g  
l  
o  
b  
a  
l  
e  
d  
e  
l  
,  
a  
p  
p



I  
i  
c  
a  
t  
i  
o  
n  
e  
s  
t  
c  
o  
n  
s  
e  
r  
v  
é  
e  
o  
u  
s  
u  
p  
p  
r  
i  
m  
é  
e  
.  
L  
e  
s  
j  
o  
u  
r  
n  
a  
u  
x  
d  
u  
s  
y  
s  
t  
è

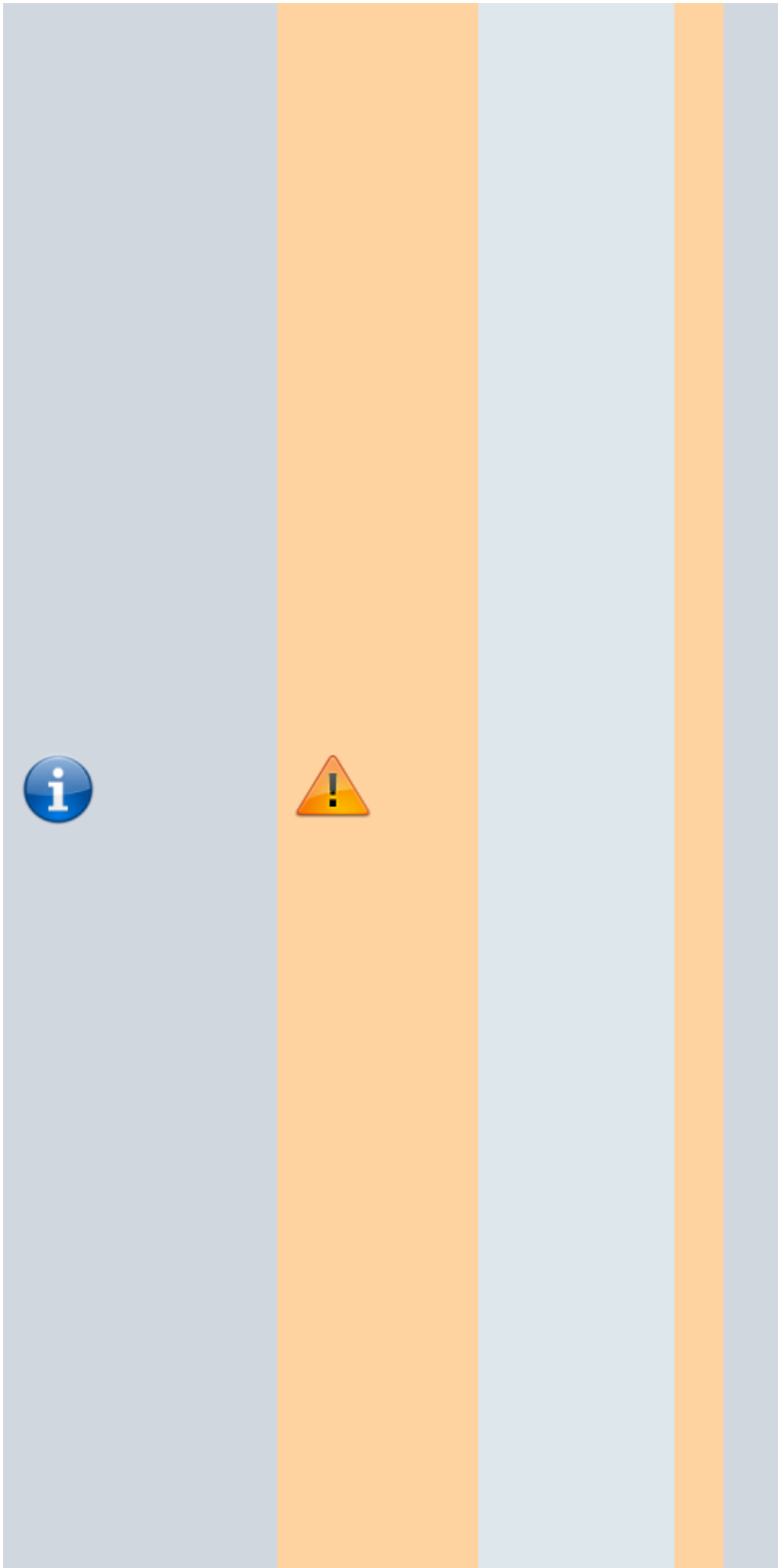


m  
e  
,  
e  
t  
l  
e  
s  
f  
i  
c  
h  
i  
e  
r  
s  
d  
e  
p  
r  
é  
f  
é  
r  
e  
n  
c  
e  
d  
e  
s  
u  
t  
i  
l  
i  
s  
a  
t  
e  
u  
r  
s  
d  
a  
n  
s  
l  
e  
u  
r



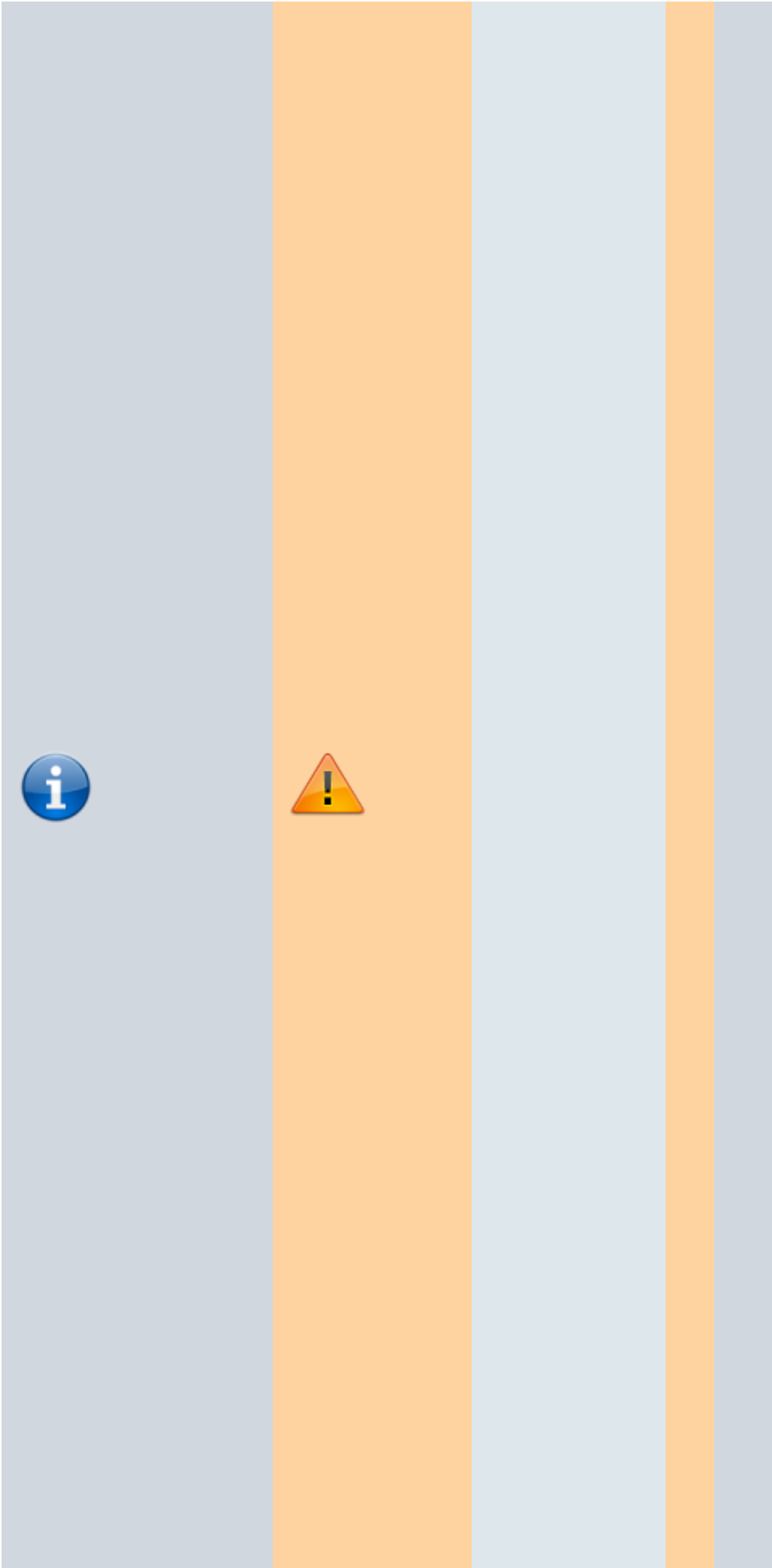
S  
d  
o  
s  
s  
i  
e  
r  
s  
p  
e  
r  
s  
o  
n  
n  
e  
l  
s  
o  
n  
t  
t  
o  
u  
j  
o  
u  
r  
s  
c  
o  
n  
s  
e  
r  
v  
é  
s  
.

**V  
o  
i  
r**

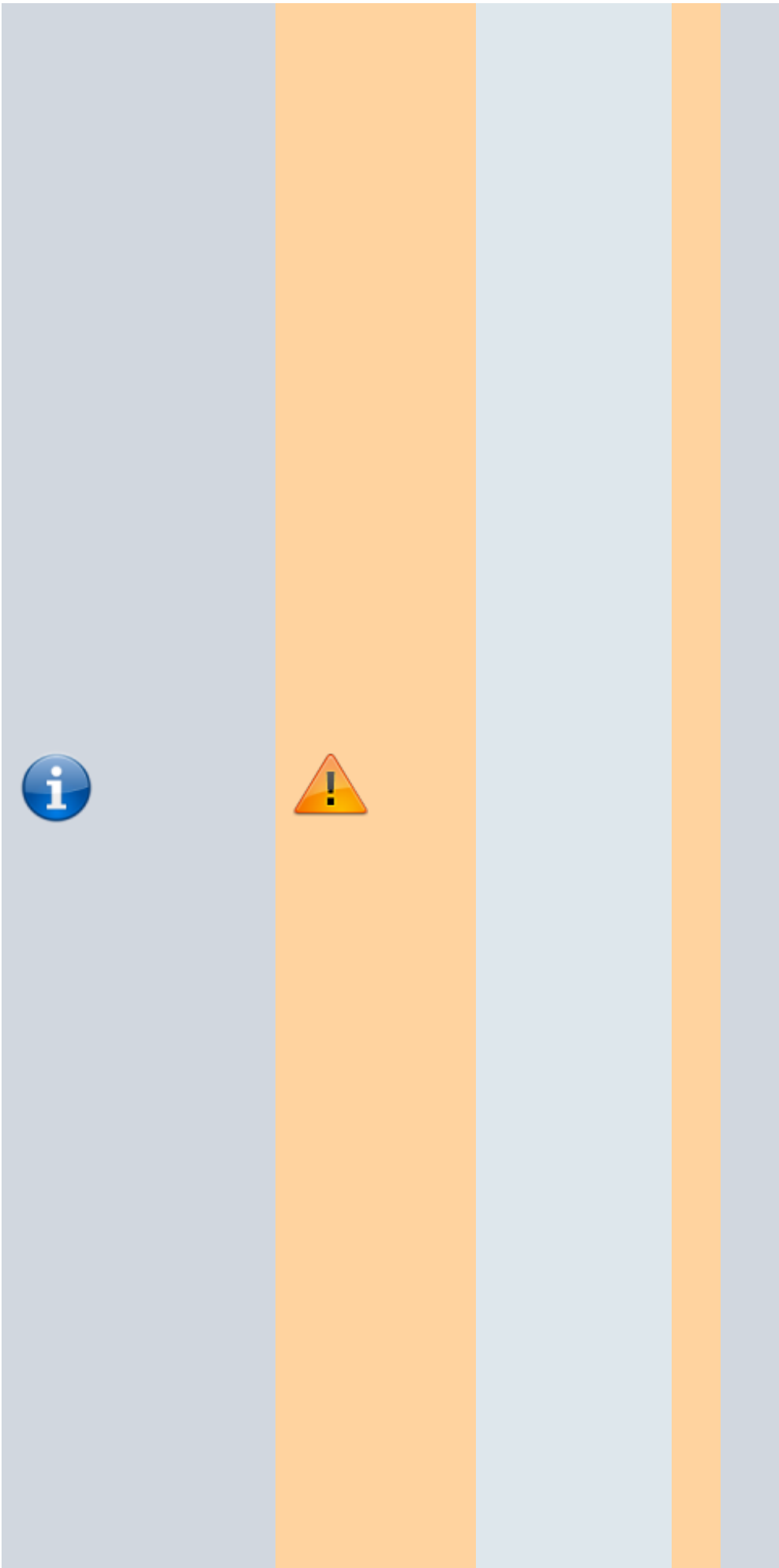


**a  
u  
s  
s  
i**

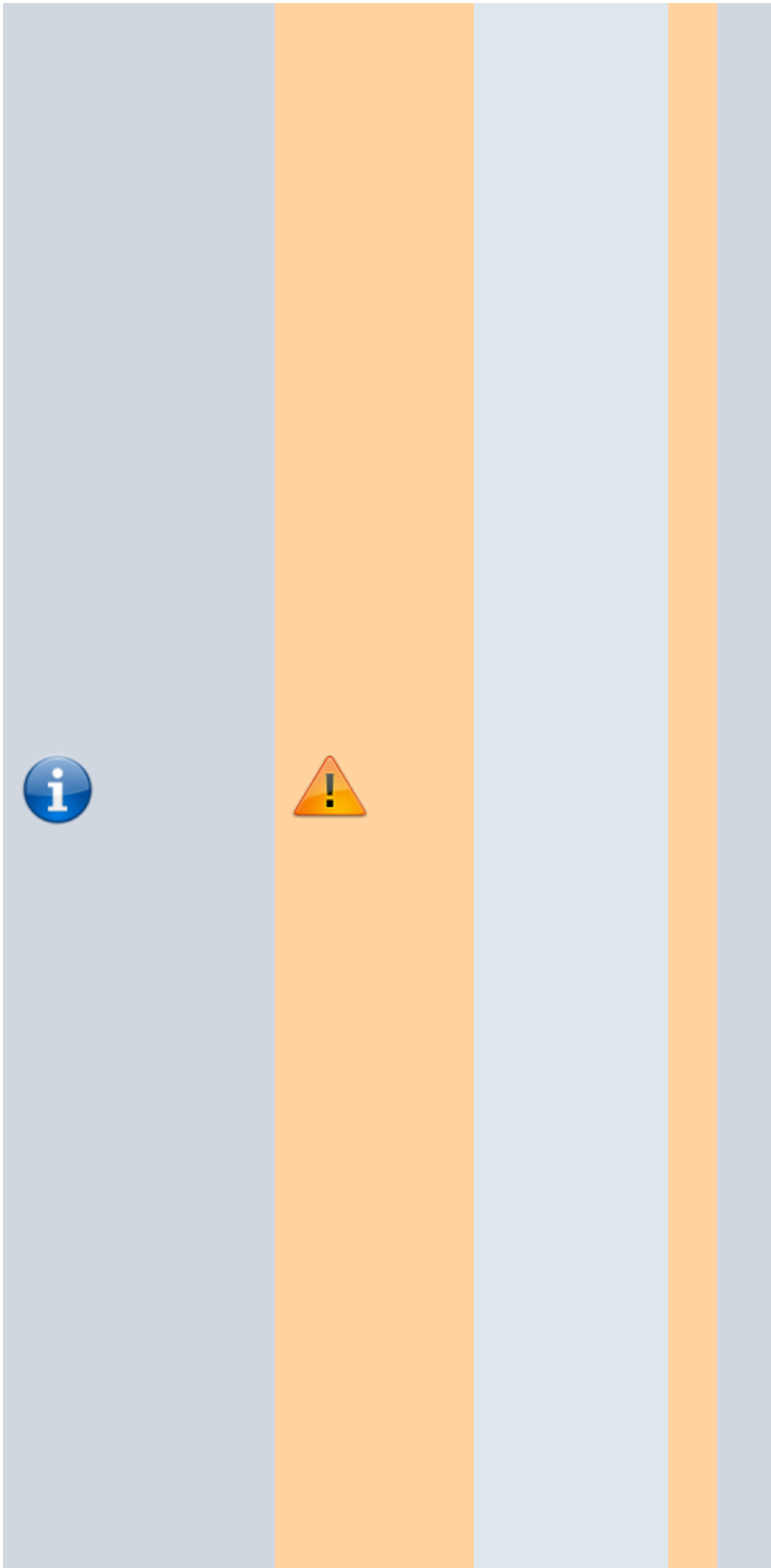
• ( f r ) C o m m e n t u t i l i s e r v o t r e R a s p b e r r y P i c o m m e s



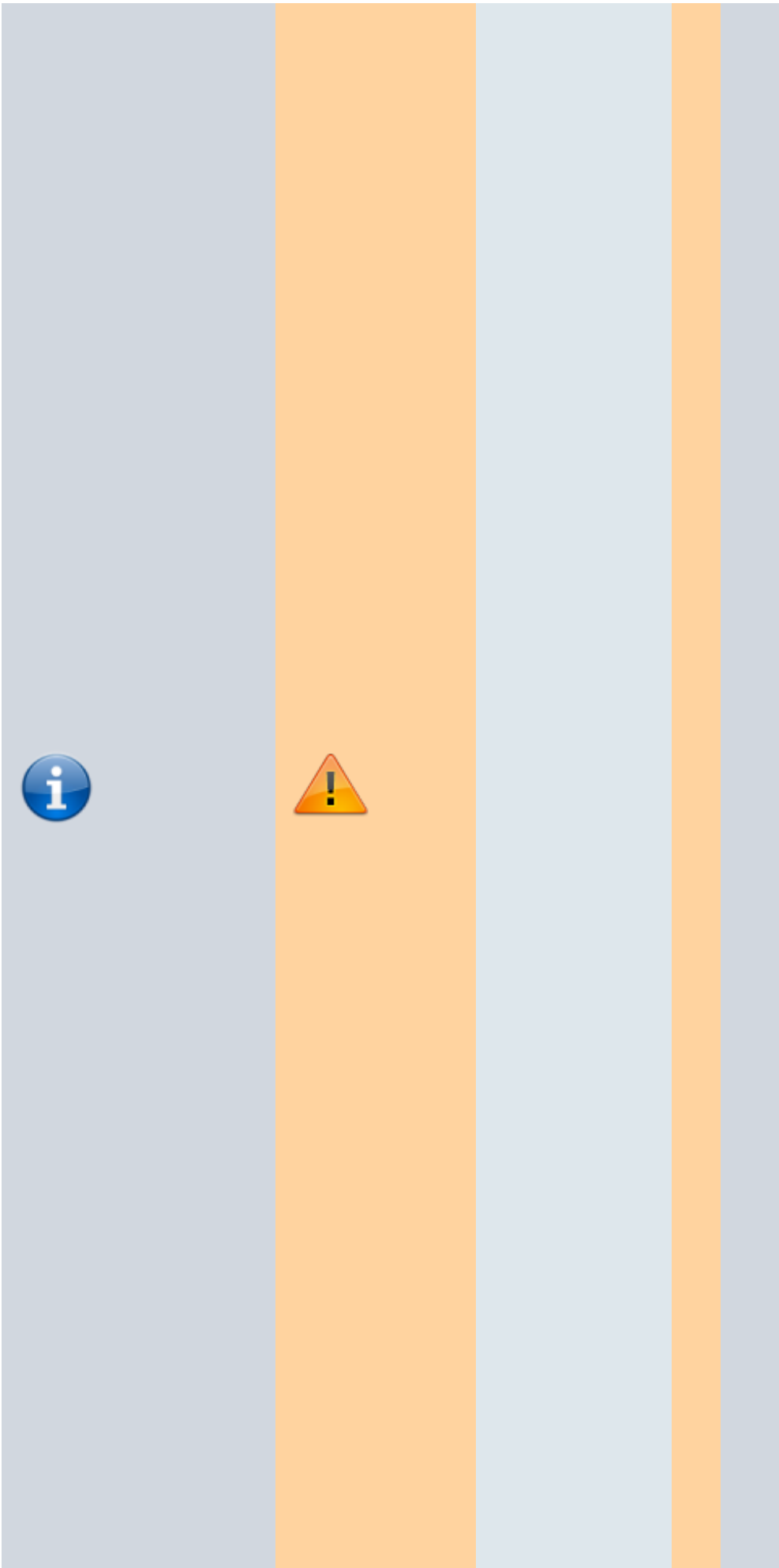
• (en) <https://unix.stackexchange.com/>



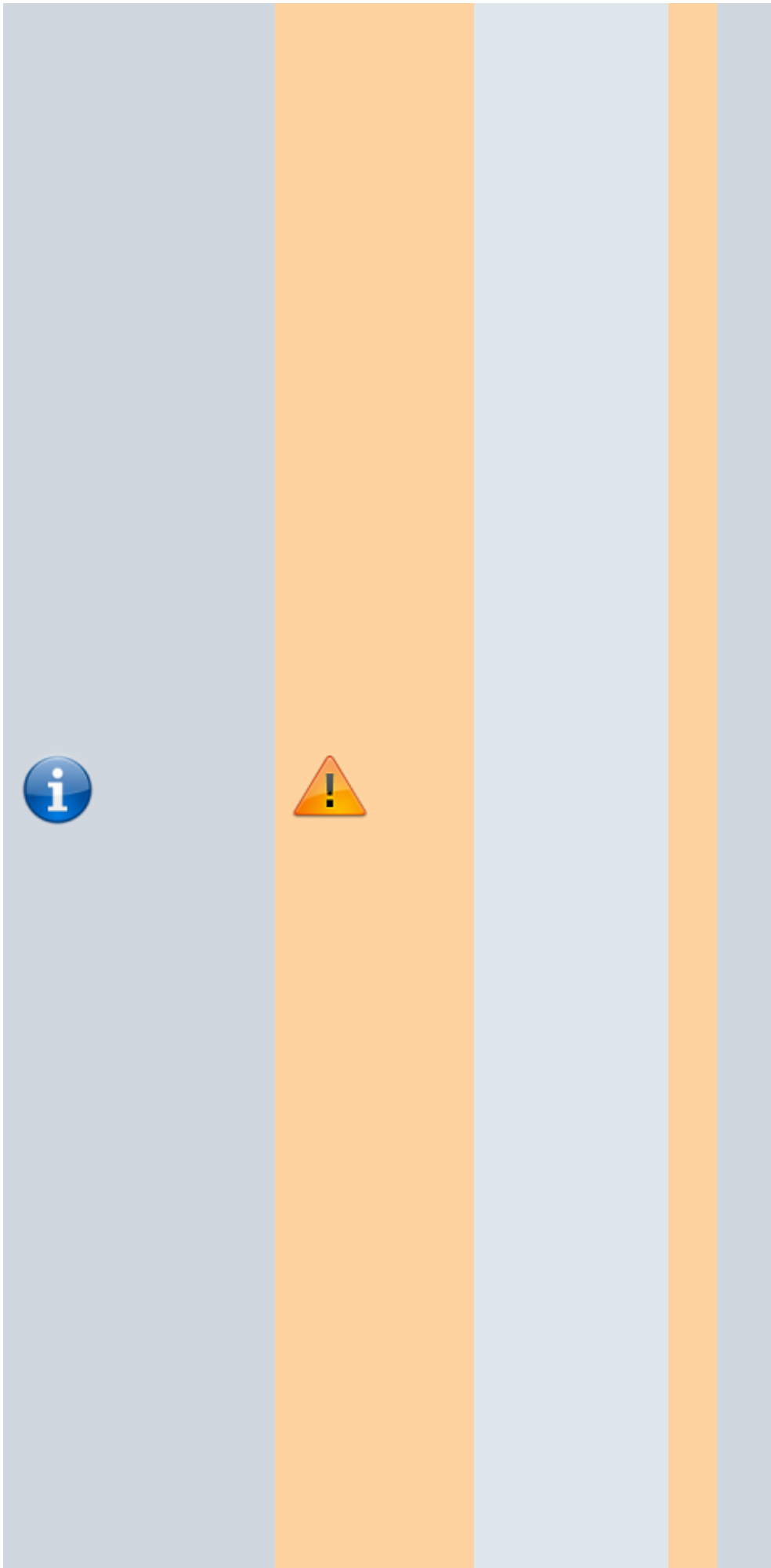
q  
u  
e  
s  
t  
i  
o  
n  
s  
/  
3  
0  
4  
0  
5  
0  
/  
h  
o  
w  
-  
t  
o  
-  
a  
v  
o  
i  
d  
-  
c  
o  
n  
f  
l  
i  
c  
t  
s  
-  
b  
e  
t  
w  
e  
e  
n  
-  
d  
n  
s



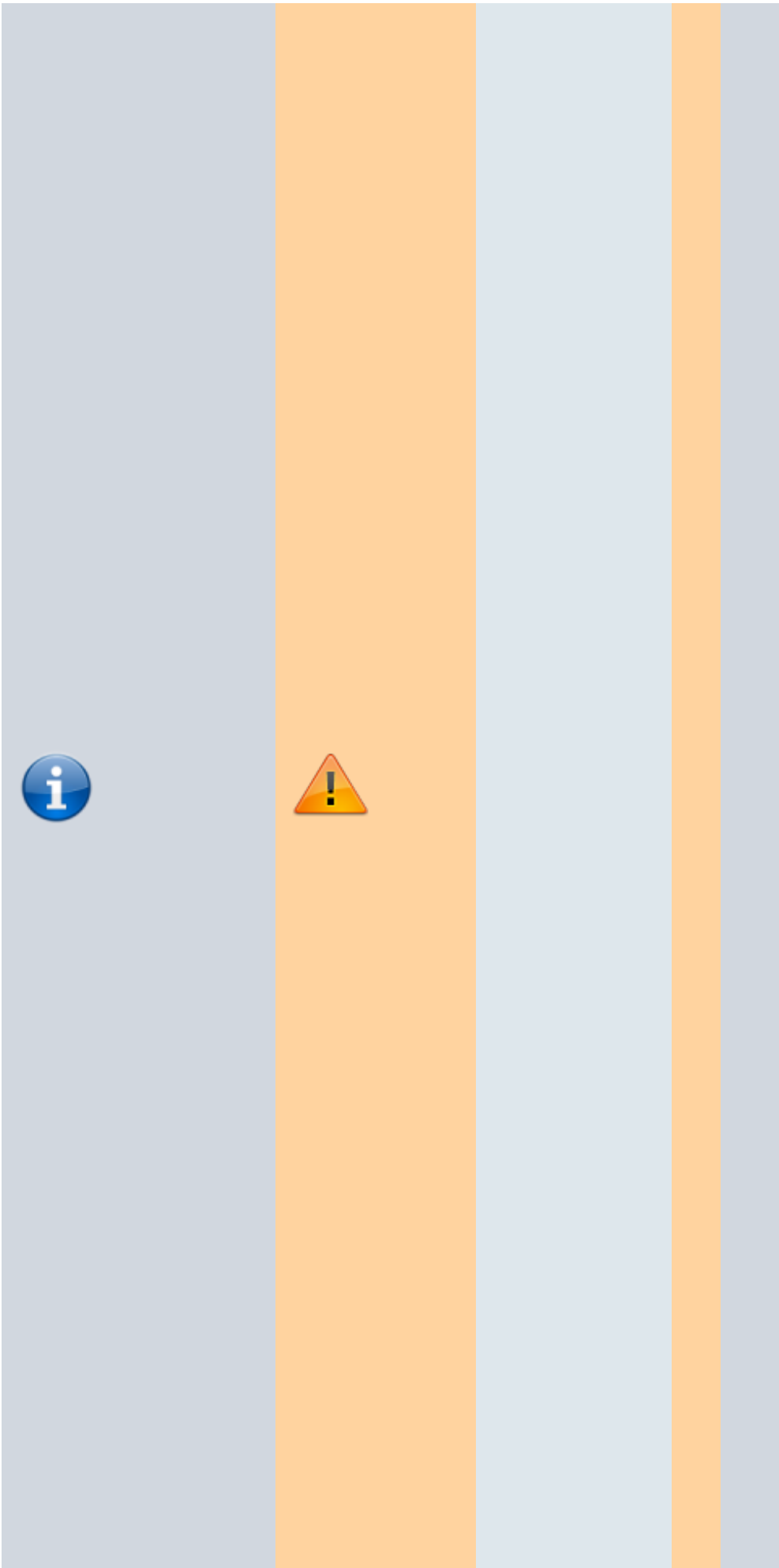
m  
a  
s  
q  
-  
a  
n  
d  
-  
s  
y  
s  
t  
e  
m  
d  
-  
r  
e  
s  
o  
l  
v  
e  
d  
.  
(  
f  
r  
)  
h  
t  
t  
p  
:  
/  
/  
i  
r  
p  
.  
n  
a  
i  
n  
-  
t  
.  
n  
e  
t



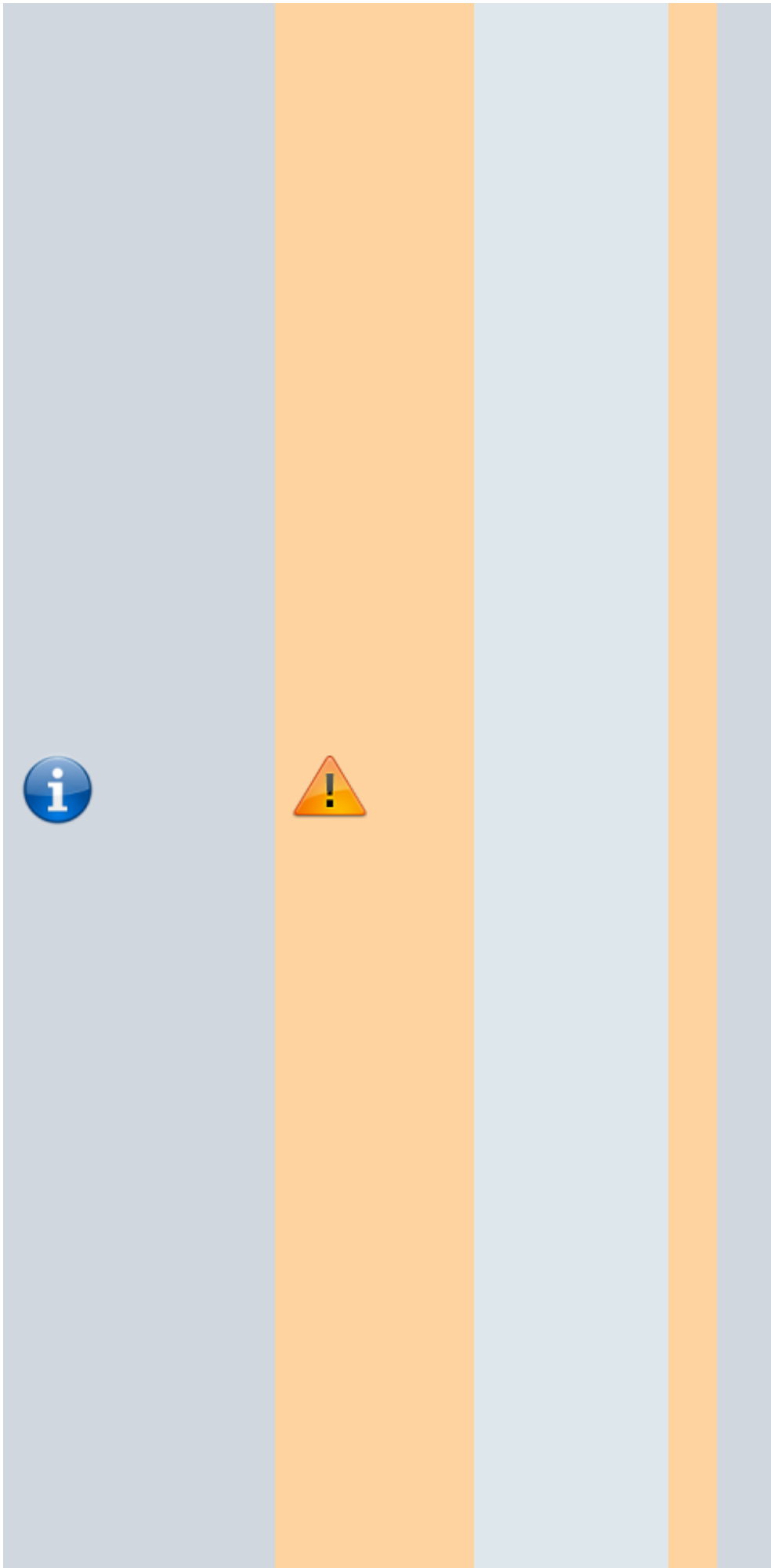
/  
d  
o  
k  
u  
.  
p  
h  
p  
/  
1  
6  
0  
d  
n  
s  
:  
3  
0  
-  
c  
o  
n  
s  
t  
r  
u  
i  
r  
e  
-  
u  
n  
-  
d  
n  
s  
e  
t  
l  
e  
r  
e  
s  
t  
e  
d  
u  
s  
i



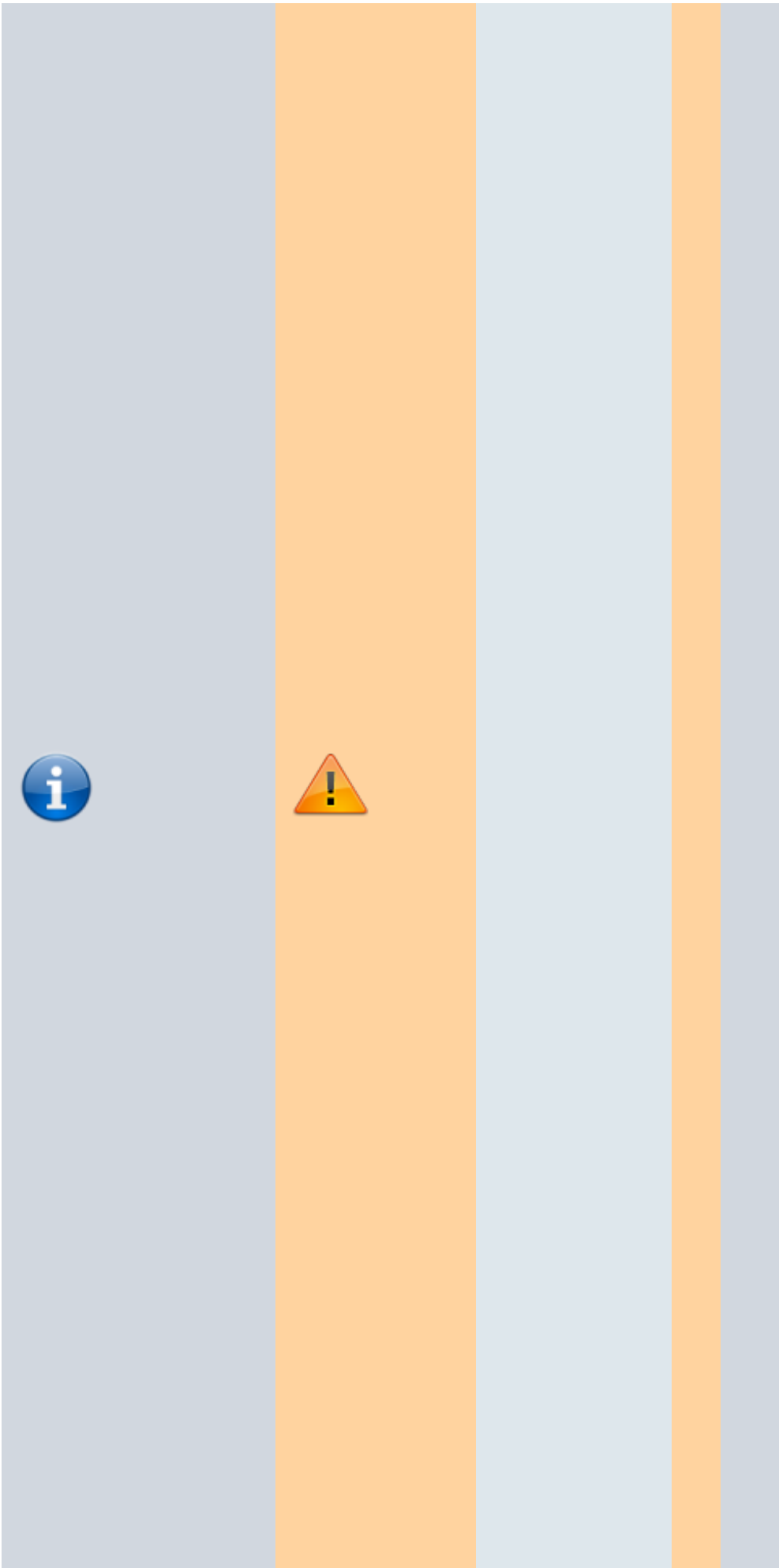
t  
e  
•  
(  
f  
r  
)  
h  
t  
t  
p  
:  
/  
/  
w  
w  
w  
.  
c  
e  
d  
-  
i  
n  
f  
o  
.  
c  
o  
m  
/  
a  
d  
m  
i  
n  
i  
s  
t  
r  
a  
t  
i  
o  
n  
-  
r  
e  
s  
e  
a



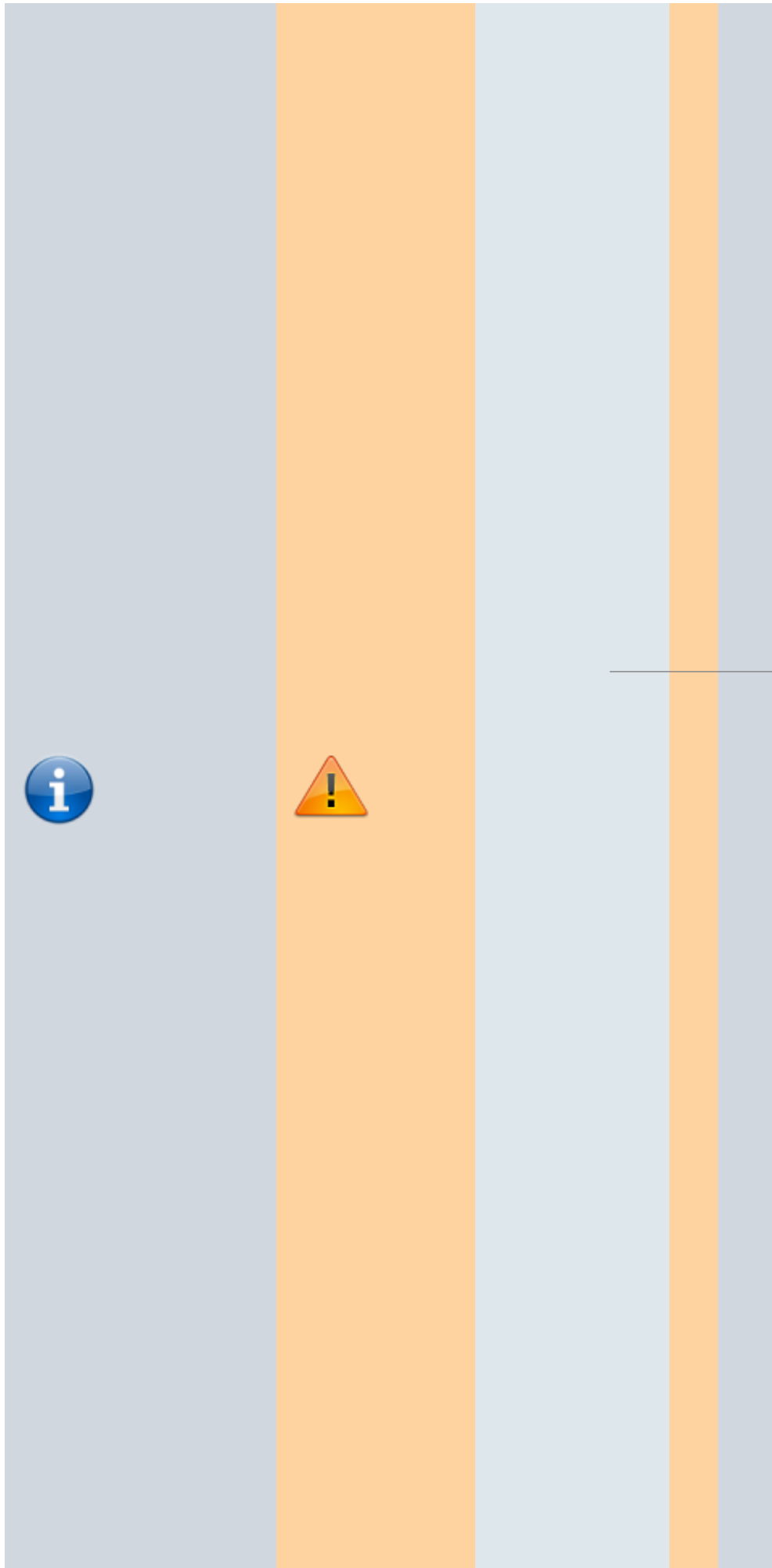
u  
x  
/  
b  
i  
n  
d  
9  
-  
i  
n  
s  
t  
a  
l  
l  
a  
t  
i  
o  
n  
-  
e  
t  
-  
p  
a  
r  
a  
m  
e  
t  
r  
a  
g  
e  
.  
(  
f  
r  
)  
h  
t  
t  
p  
:  
/  
/  
l  
i

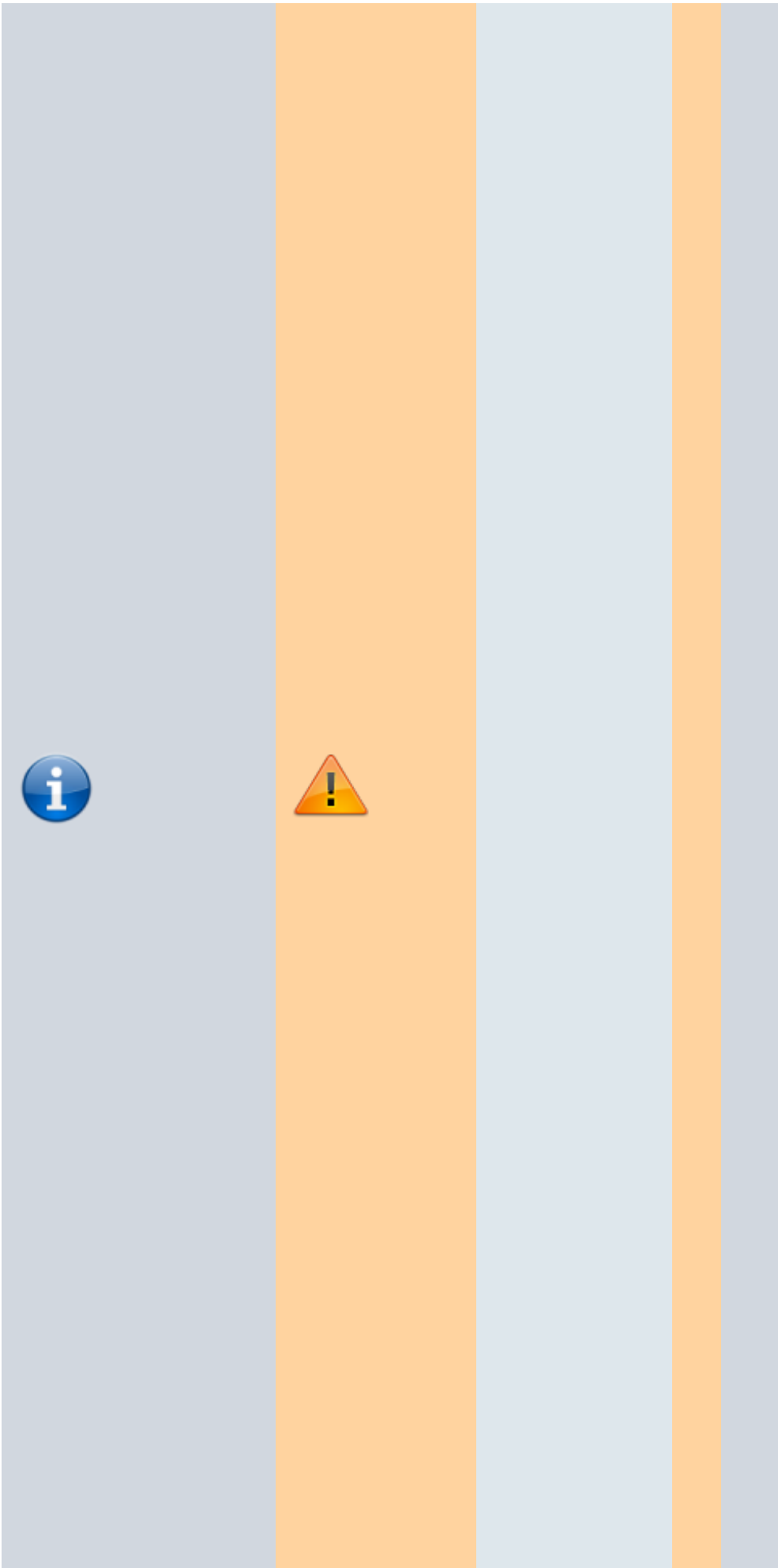


n  
u  
x  
.  
c  
r  
d  
p  
.  
a  
c  
-  
c  
a  
e  
n  
.  
f  
r  
/  
L  
c  
s  
3  
/  
x  
8  
7  
0  
.  
h  
t  
m  
l  
.  
(  
f  
r  
)  
h  
t  
t  
p  
:  
/  
/  
w  
e  
b  
a  
d

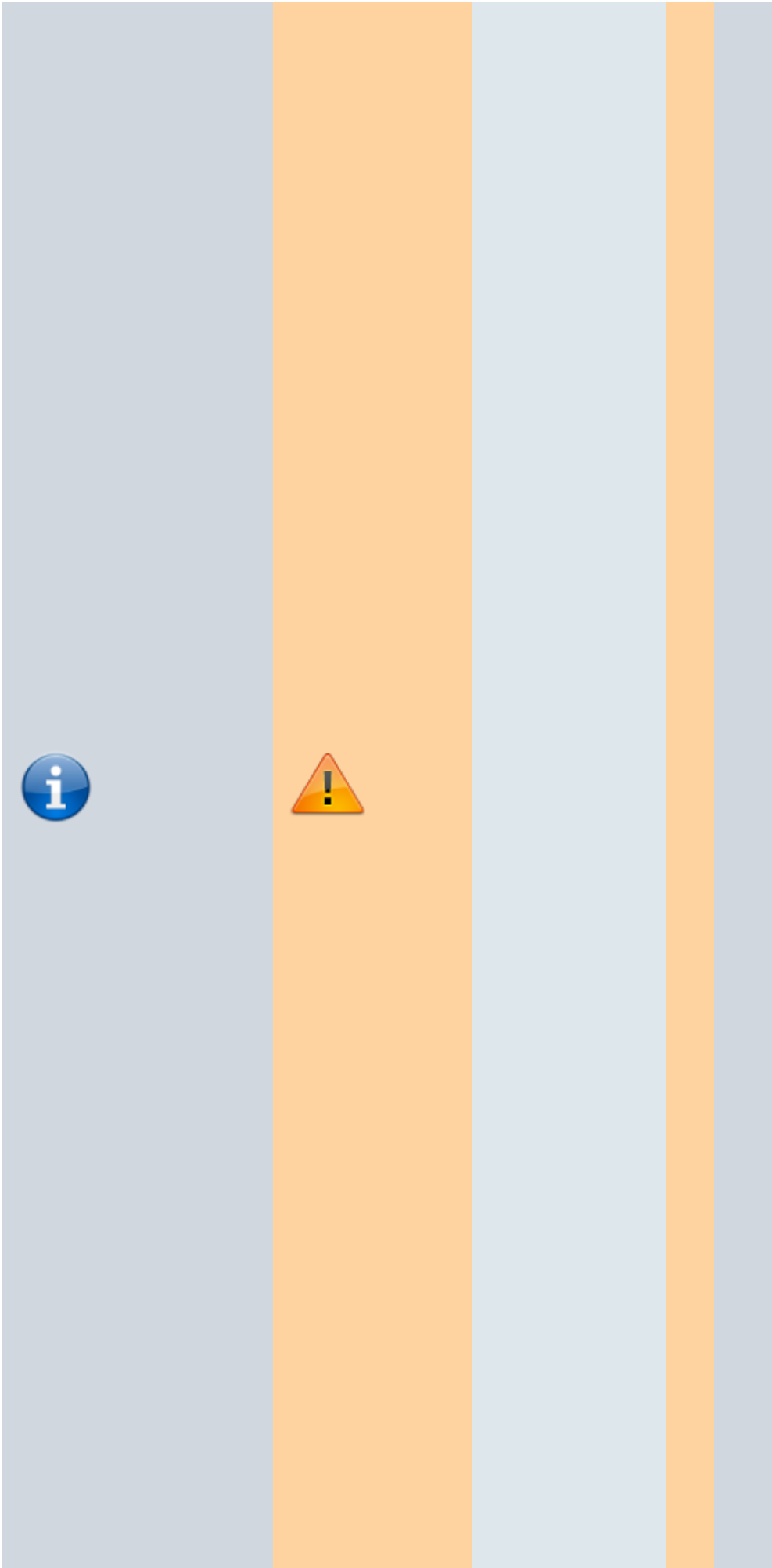


o  
n  
f  
.  
n  
e  
t  
/  
2  
0  
1  
1  
/  
0  
3  
/  
c  
o  
n  
f  
i  
g  
u  
r  
e  
r  
-  
u  
n  
-  
s  
e  
r  
v  
e  
u  
r  
-  
d  
n  
s  
-  
a  
v  
e  
c  
-  
b  
i  
n  
d

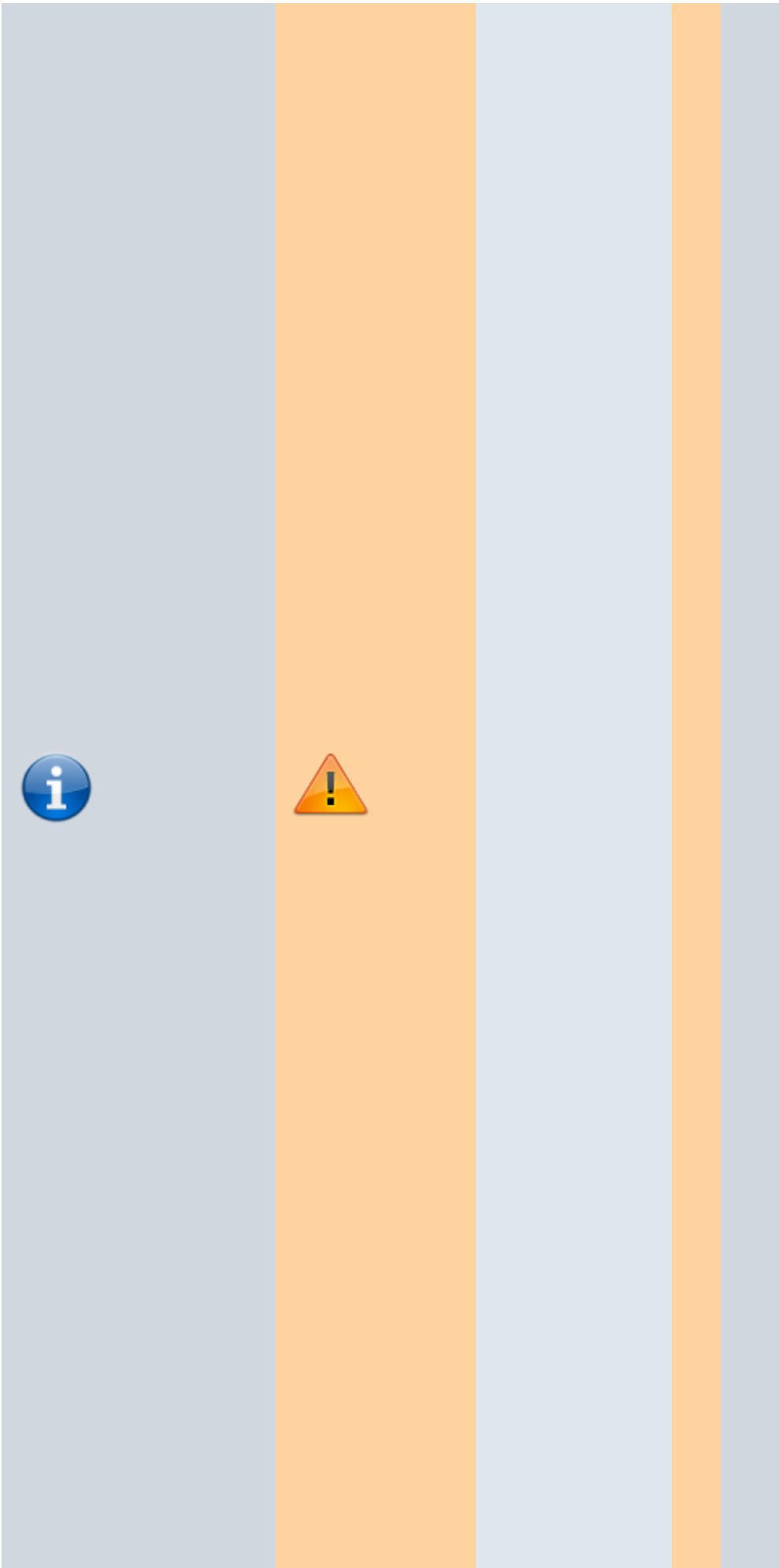




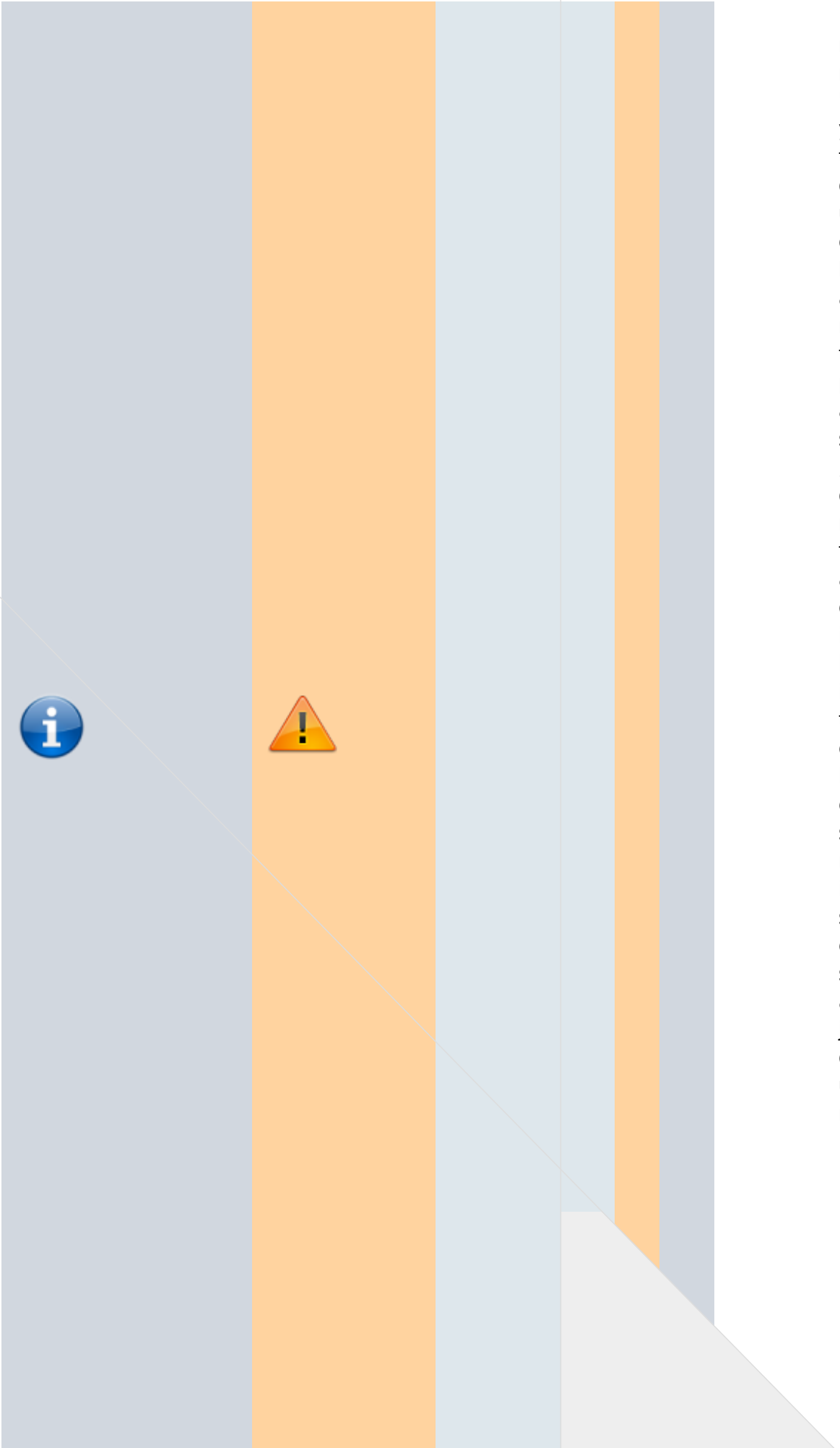
R  
a  
s  
p  
b  
e  
r  
r  
y  
p  
i  
c  
o  
m  
m  
e  
s  
e  
r  
v  
e  
u  
r  
D  
N  
S  
l  
o  
c  
a  
l  
?  
»  
p  
a  
r  
r  
a  
s  
p  
b  
e  
r  
r  
y  
t  
i  
p  
s  
.



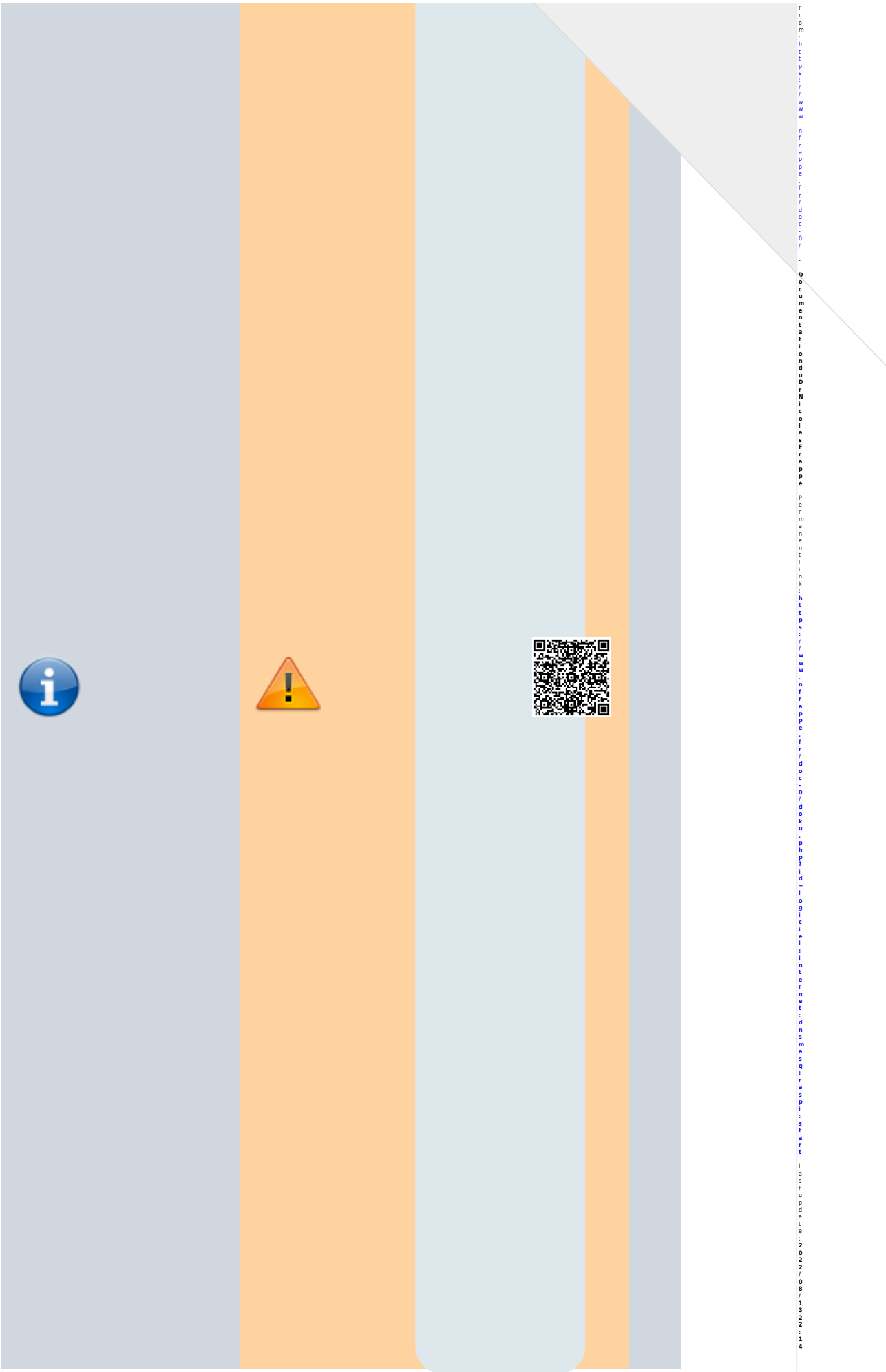
f  
r  
.  
1  
)  
P  
a  
r  
d  
é  
f  
a  
u  
t  
,  
l  
e  
f  
i  
c  
h  
i  
e  
r  
d  
e  
c  
o  
n  
f  
i  
g  
u  
r  
a  
t  
i  
o  
n  
d  
e  
d  
n  
s  
m  
a  
s  
q  
e  
s  
t  
/  
e



t  
c  
/  
d  
n  
s  
m  
a  
s  
q  
.  
c  
o  
n  
f  
,  
d  
o  
n  
t  
t  
o  
u  
t  
e  
s  
l  
e  
s  
l  
i  
g  
n  
e  
s  
s  
o  
n  
t  
c  
o  
m  
m  
e  
n  
t  
é  
e  
s  
.



E  
n  
n  
·  
y  
t  
o  
u  
c  
h  
a  
n  
t  
p  
a  
s  
·  
o  
n  
f  
a  
c  
i  
l  
i  
t  
e  
s  
m  
i  
s  
e  
s  
à  
j  
o  
u  
r  
·



Form : <https://www.nfrappe.fr/doc-0/doku.php?id=logiciel:internet:dnsmaq:raspi:start> Last update: 2022/08/13 22:14

