



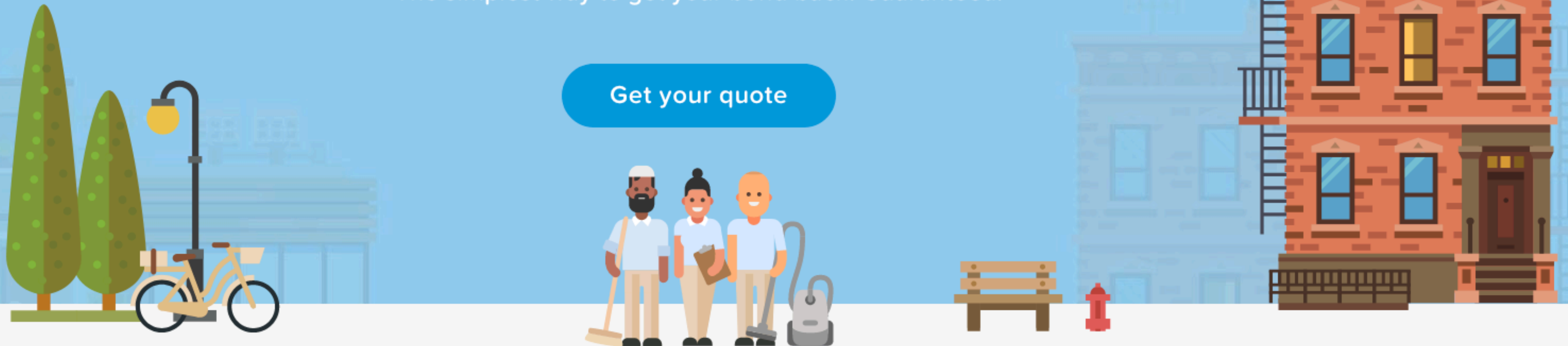
# Gridsystems

Prinzipien am Beispiel von Bootstrap

# You move out, we clean up.

The simplest way to get your bond back. *Guaranteed.*

Get your quote



## Bond Back Guarantee

Moving homes in Sydney is stressful enough. With our end of lease cleaning service, getting your bond back has never been easier. Rest assured knowing that your real estate agent or landlord will accept your cleaning. If not, just notify us within 72 hours and we'll gladly return to reclean any problem areas - free of charge.







# WEB DESIGNER / FRONT-END DEVELOPER

*Hello, I'm Jessie, specializing in web design, front-end development and digital media.*

CV

PORTFOLIO



NOMINEE  
AWARDS

# TBILISI PHOTOGRAPHY & MULTIMEDIA MUSEUM.

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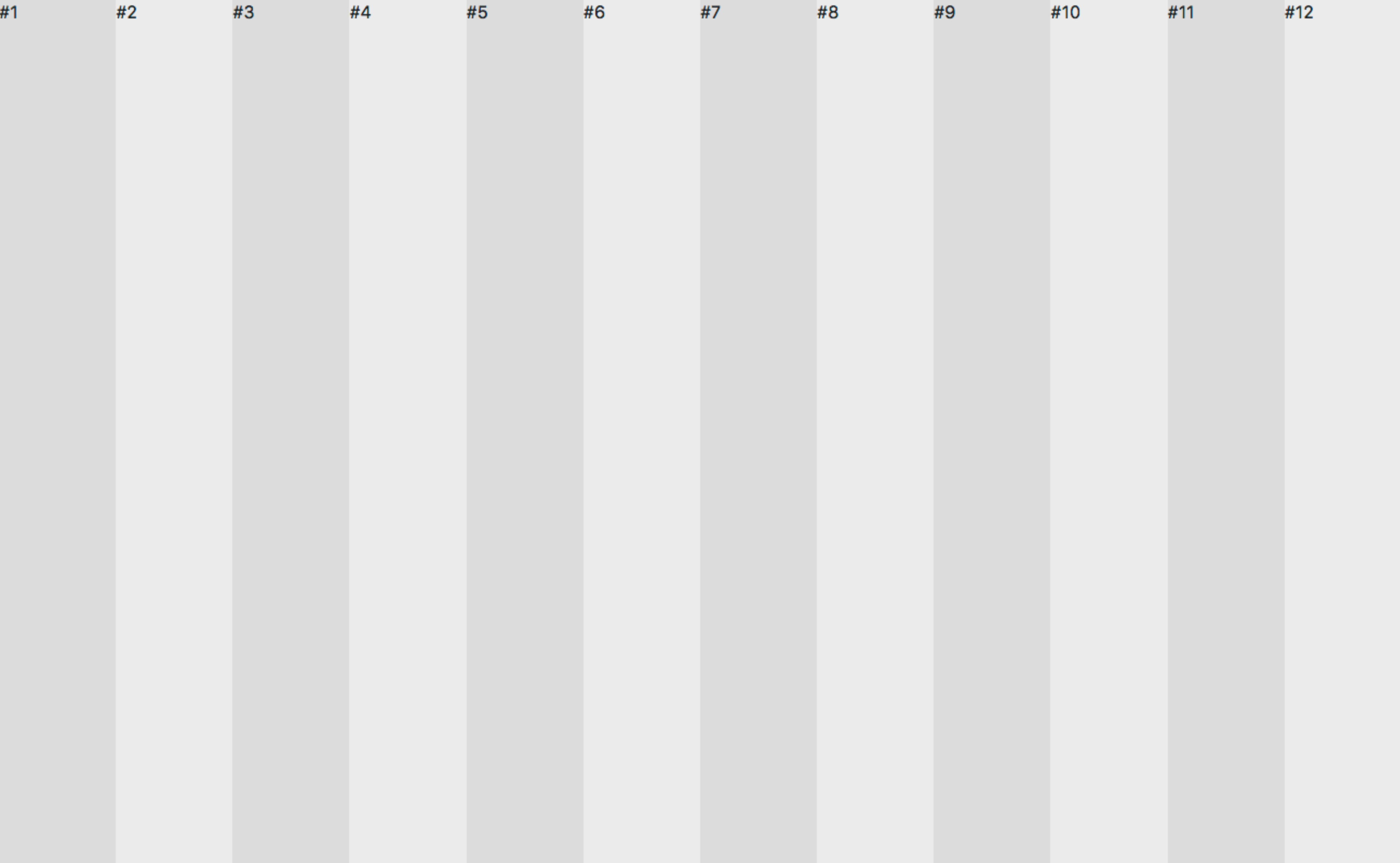
Switch to Georgian





# HTML-Einbindung

```
<head>
  ..
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
  <!-- Bootstrap CSS -->
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta.2/css/
    bootstrap.min.css" integrity="sha384-
    PsH8R72JQ3S0dhVi3uxftmaW6Vc51MKb0q5P2rRUpPvrszuE4W1povHYgTpBfshb"
    crossorigin="anonymous">
  ..
</head>
<body>
  ..
  <!-- Optional JavaScript -->
  <!-- jQuery first, then Popper.js, then Bootstrap JS -->
  <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-
    KJ3o2DKtIkVYIK3UENzmM7KChRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN" crossorigin="anonymous"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.3/umd/popper.min.js" integrity="sha384-
    vFJXuSJphR0IrBnz7yo7oB41mKfc8JzQZiCq4NCceLEa04IHwicKwpJf9c9IpFgh" crossorigin="anonymous"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta.2/js/bootstrap.min.js" integrity="sha384-
    alpBpkh1PF0epccYVYDB4do5UnbKysX5WZXm3XxPqe5iKTfUKjNkCk9SaVuEZflJ" crossorigin="anonymous"></script>
</body>
```



#1

#2

#3

#4

#5

#6

#7

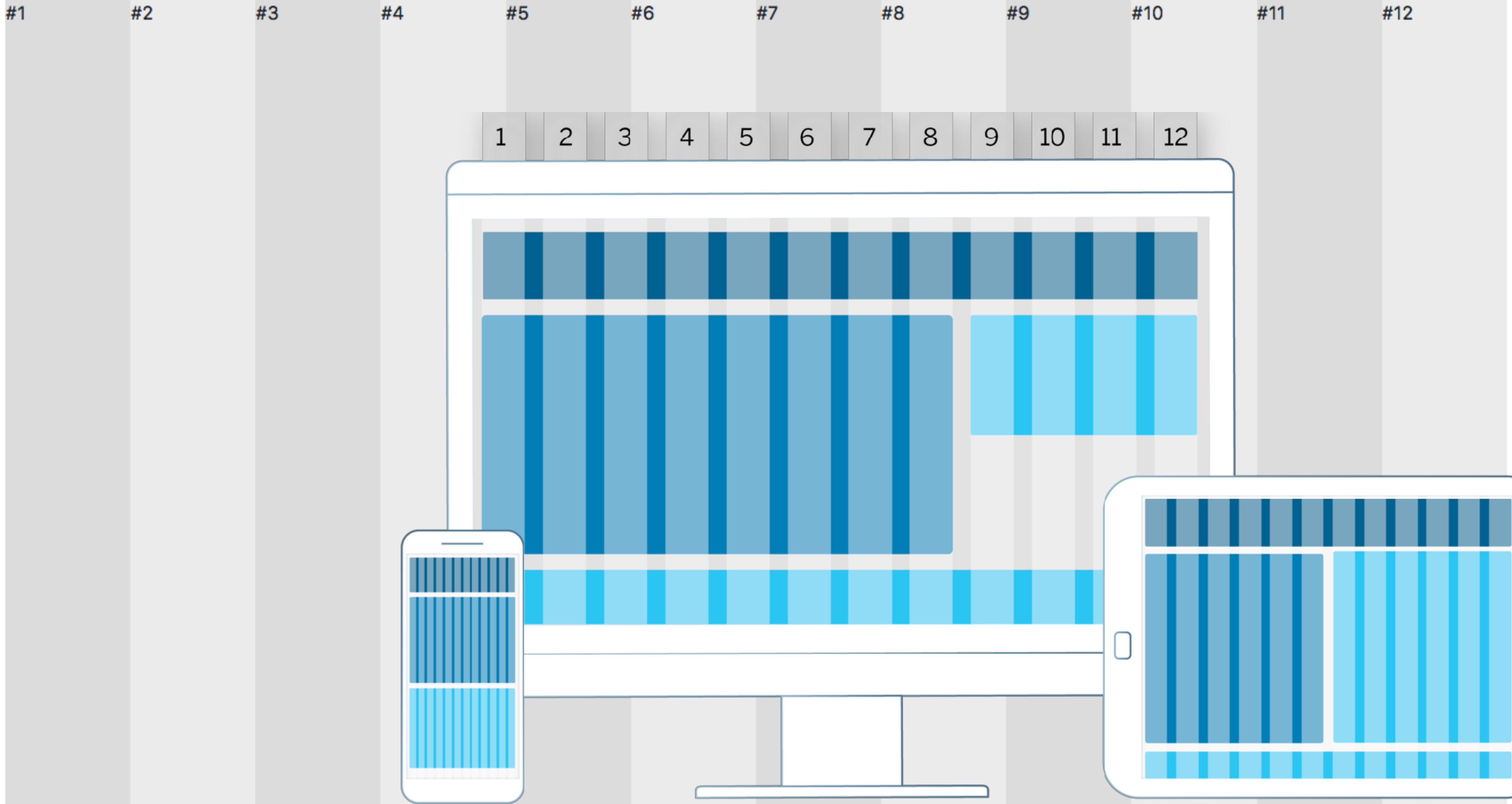
#8

#9

#10

#11

#12



**12er Raster** – gültig für alle Bildschirmgrößen!

# Mostly Fluid vs. Fluid Fullscreen



#1

#2

#3

#4

#5

#6

#7

#8

#9

#10

#11

#12

```
<main class="container">
```

```
</main>
```

**Fixed Container** – abhängig vom Breakpoint

#1

#2

#3

#4

#5

#6

#7

#8

#9

#10

#11

#12

```
<main class="container-fluid">
```

```
</main>
```

**Fluid Container** – Fullscreen

# Rows und Cols

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
----	----	----	----	----	----	----	----	----	-----	-----	-----

```
<div class="row">  
  ...  
</div>
```

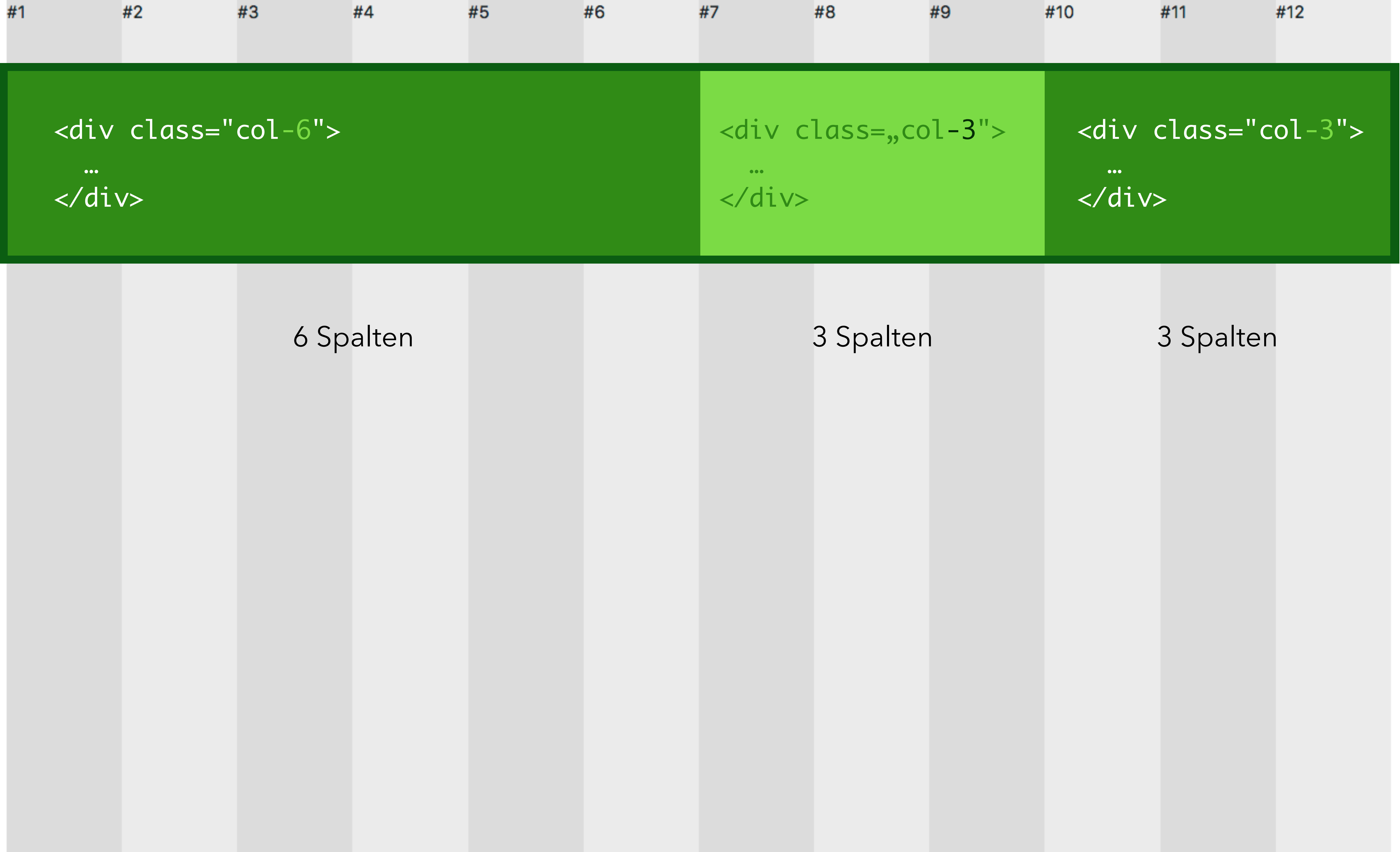
**row** – Zeile, optionaler Parameter: no-gutters

#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12				
<div>&lt;div class="col"&gt; ... &lt;/div&gt;</div>				<div>&lt;div class="col"&gt; ... &lt;/div&gt;</div>				<div>&lt;div class="col"&gt; ... &lt;/div&gt;</div>				<div>&lt;div class="col"&gt; ... &lt;/div&gt;</div>			
<div><div><div><div></div></div></div></div>															

col - Spalten

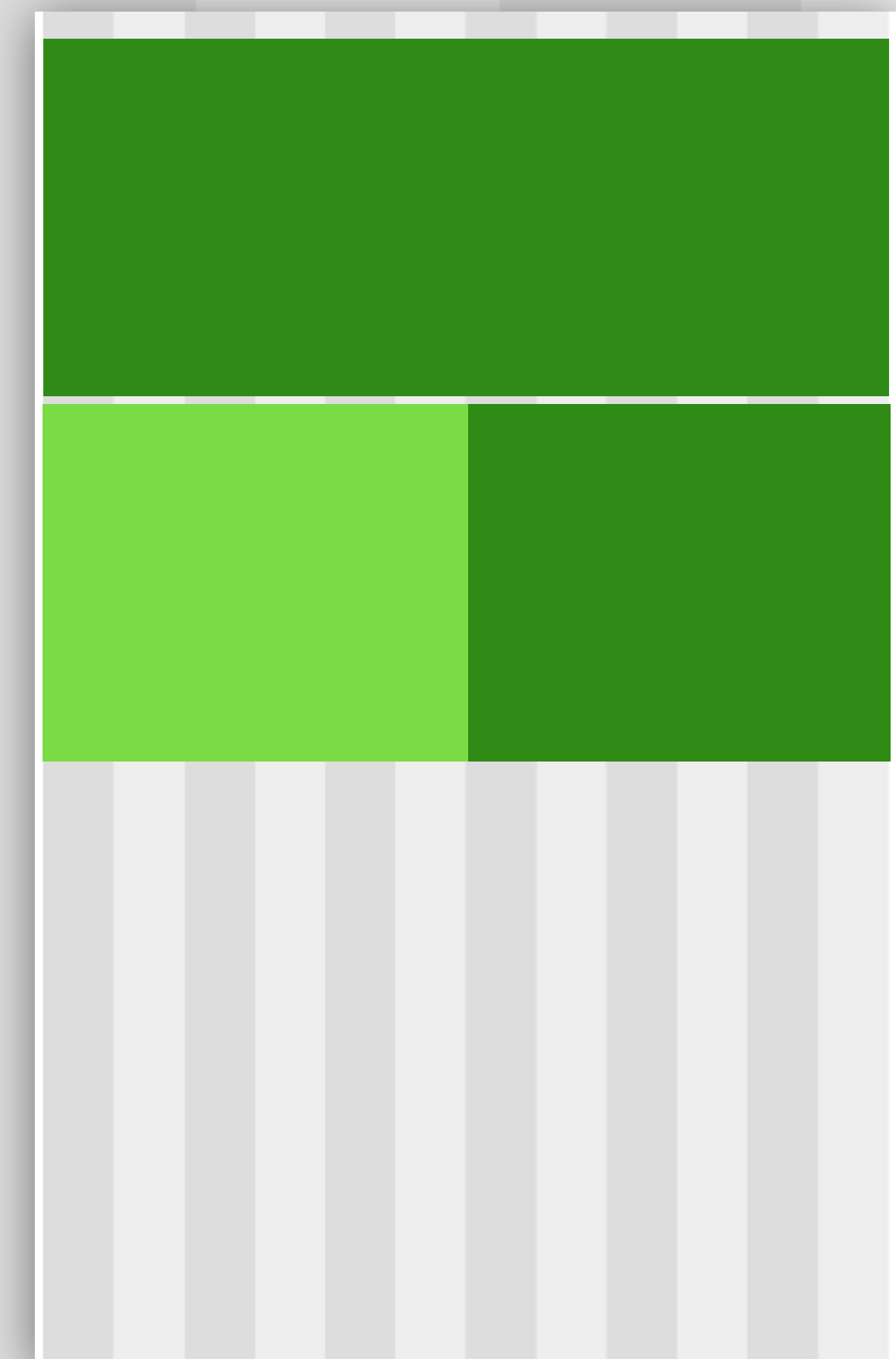
**col** - Spalten





#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
<pre>&lt;div class="col-sm-12 col-md-6"&gt;   ... &lt;/div&gt;</pre>						<pre>&lt;div class="col-sm-6 col-md-3"&gt;   ... &lt;/div&gt;</pre>			<pre>&lt;div class="col-sm-6 col-md-3"&gt;   ... &lt;/div&gt;</pre>		

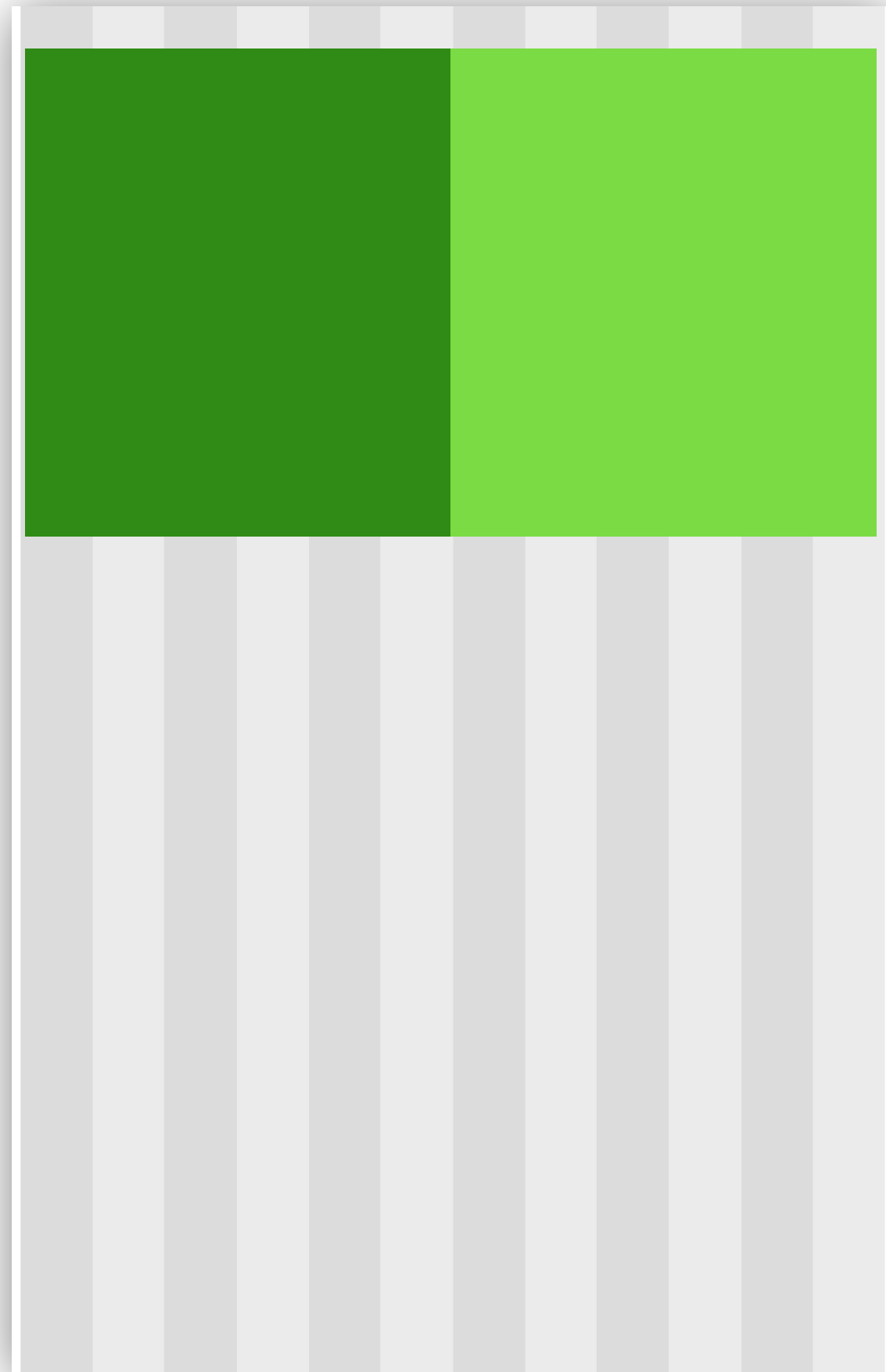
↑ 12 Spalten auf kleinen Displays (sm)  
 6 Spalten ab Medium Display (md) →



**Gültige Werte:** -xs -sm -md -lg -xl

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
Max container width	None (auto)	540px	720px	960px	1140px
Class prefix	.col-	.col-sm-	.col-md-	.col-lg-	.col-xl-
# of columns	12				
Gutter width	30px (15px on each side of a column)				
Nestable	Yes				
Column ordering	Yes				

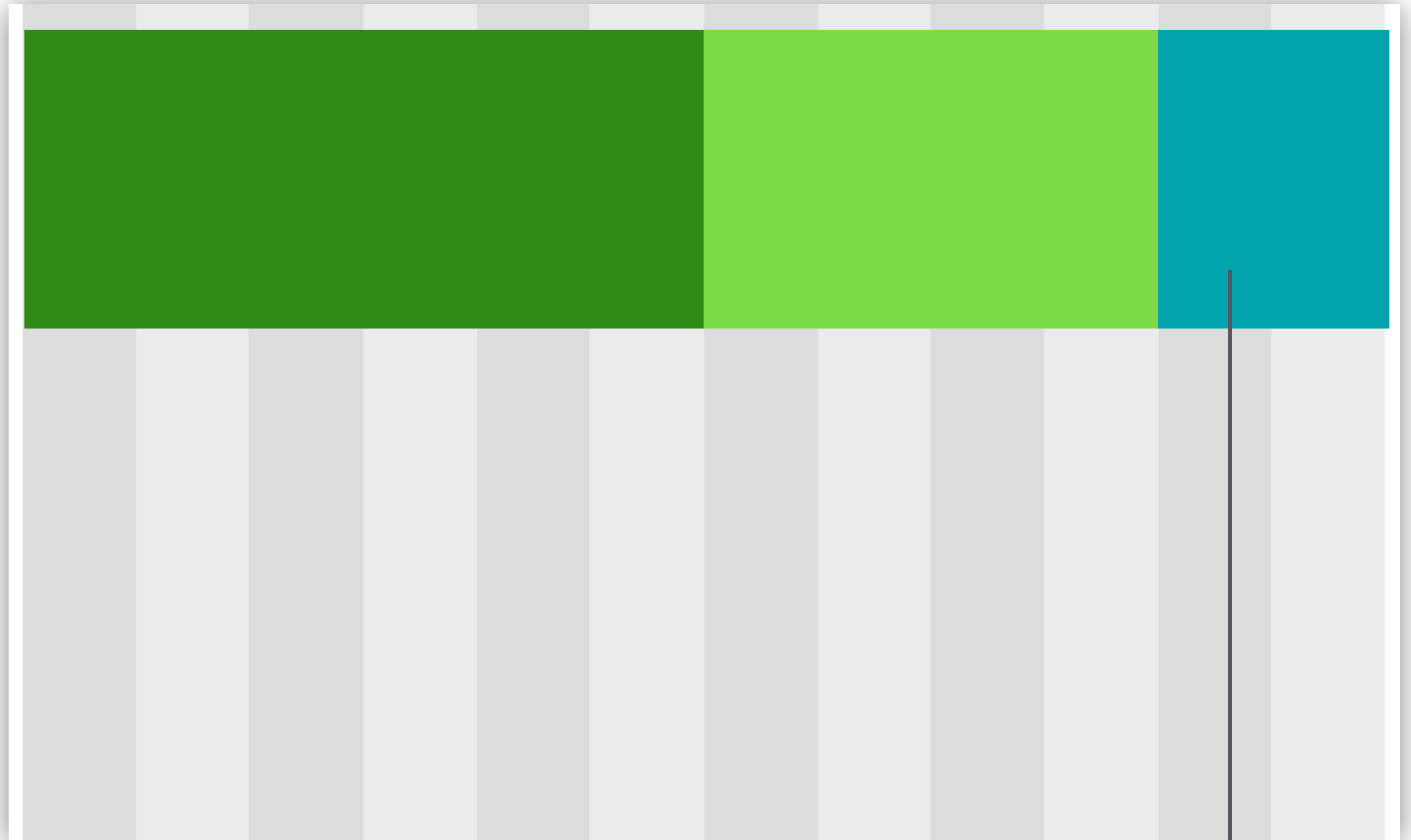
**Breakpoints:** -default



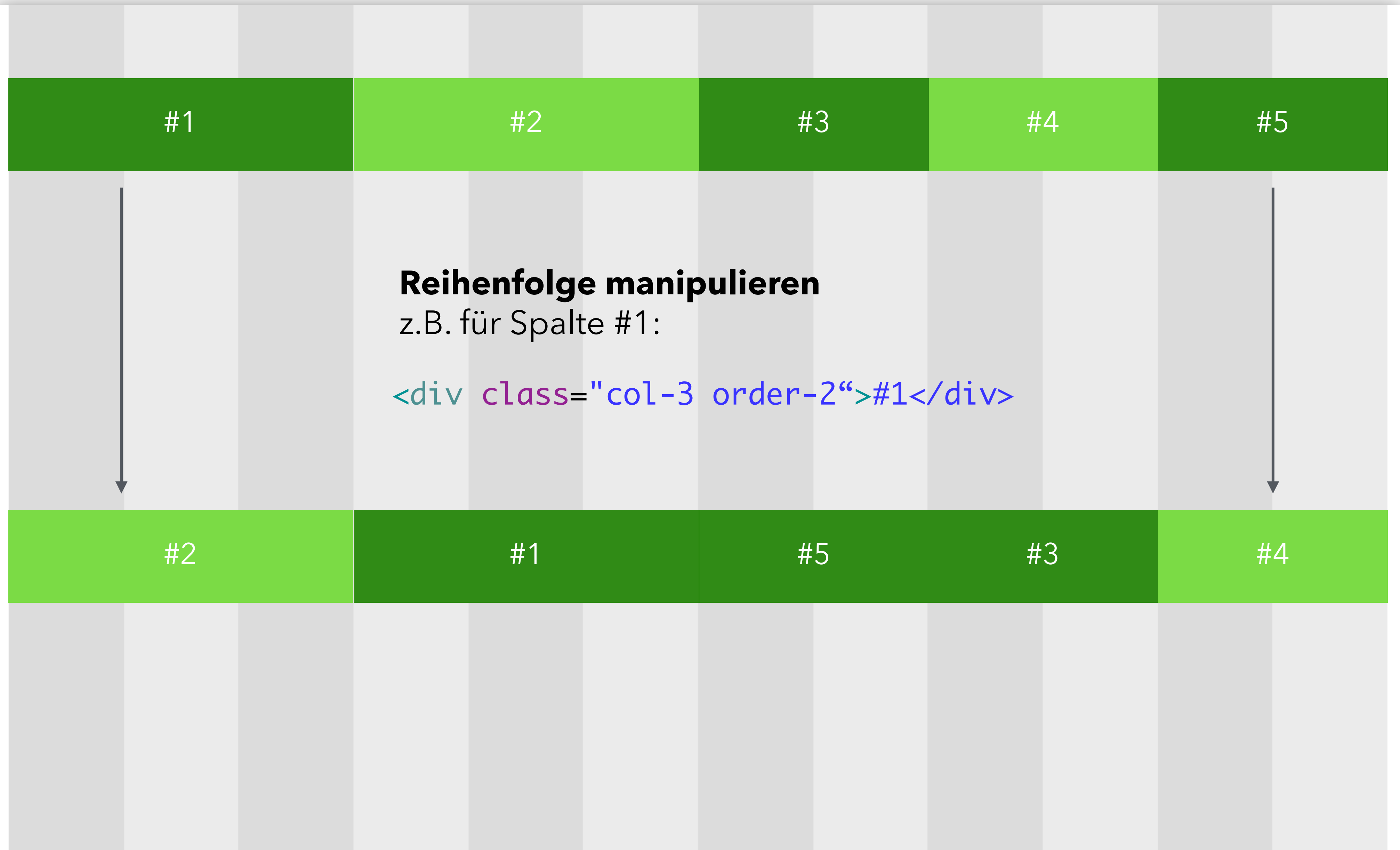
## Display von ... bis

ausblenden: d-none

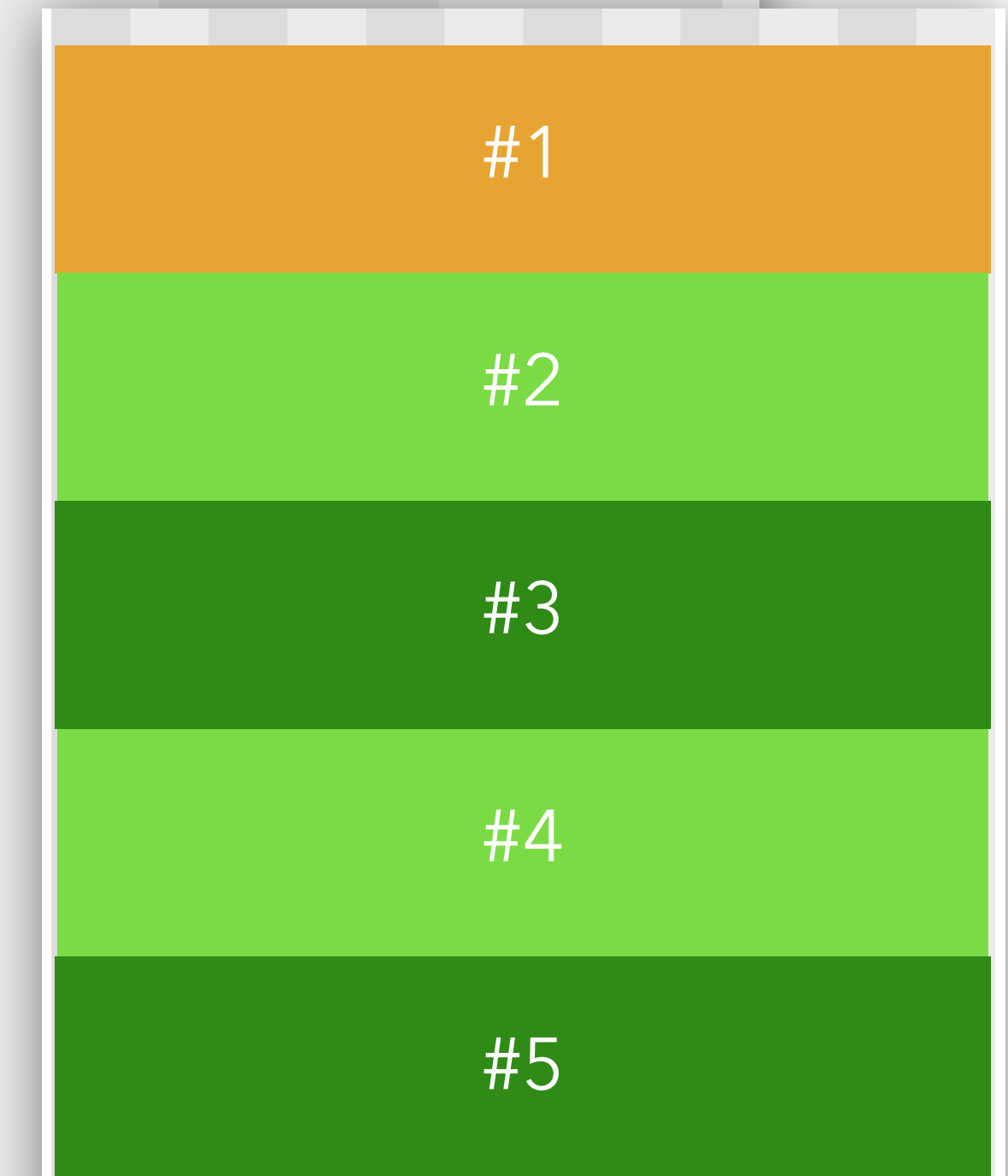
einblenden: d-md-block



```
<div class="col-2 d-none d-md-block">...</div>
```







## Reihenfolge manipulieren

z.B. für Spalte #1:

```
<div class="col-sm-6 col-md-3 order-md-3">#1</div>
```

# Zusammenfassung

## Grundprinzipien von Gridsystems

- Denkweise in Zeilen und darin beinhalteter Spalten
- Spaltenbreite: Gleichverteilt oder zusammenfassend
- Breakpoints:
  - von klein nach groß – Mobile first
  - Integration via CSS Klassen

# Zusammenfassung

## Grundprinzipien von Gridsystems

- Strategien zum Umgang mit Breakpoints
  - Inhalt gibt die Anpassung vor – nicht der Breakpoint
  - Anzahl zusammenfassender Spalten verändern
  - Display / Hide / Collapse Content
  - Veränderung der Reihenfolge von Containern mit Hilfe von Flex-Box
- Erweiterung mit Hilfe von Komponenten

# Components

# Bootstrap UI Components

- Jumbotron
- Navs
- Cards
- Forms
- Buttons
- ...

[https://getbootstrap.com/docs/4.0/  
components](https://getbootstrap.com/docs/4.0/components)



# Zusammenfassung

# Framework

- Sehr schnelles Arbeiten, insbesondere bzgl. der Komponenten – ideal zum Prototypen
- Durchgängiger Style
- Erweiterbar: Style und Komponenten
- Achtung Ladezeiten: Framework z.T. sehr schwer (Kilobyte!)