



## Giới thiệu Bootstrap framework

NGUYỄN HÀ THANH Giảng viên khoa CNTT

Thời gian: 60 phút

Đại Nam, ngày 01 tháng 10 năm 2023



## LƯU Ý

KHÔNG NÓI CHUYỆN RIÊNG



KHÔNG SỬ DỤNG ĐIỆN THOẠI



KHÔNG NGỦ GẬT



GHI CHÉP ĐẦY ĐỦ



0/3/2023 http://dainam.edu.vn Slide: số.... <sup>2</sup>





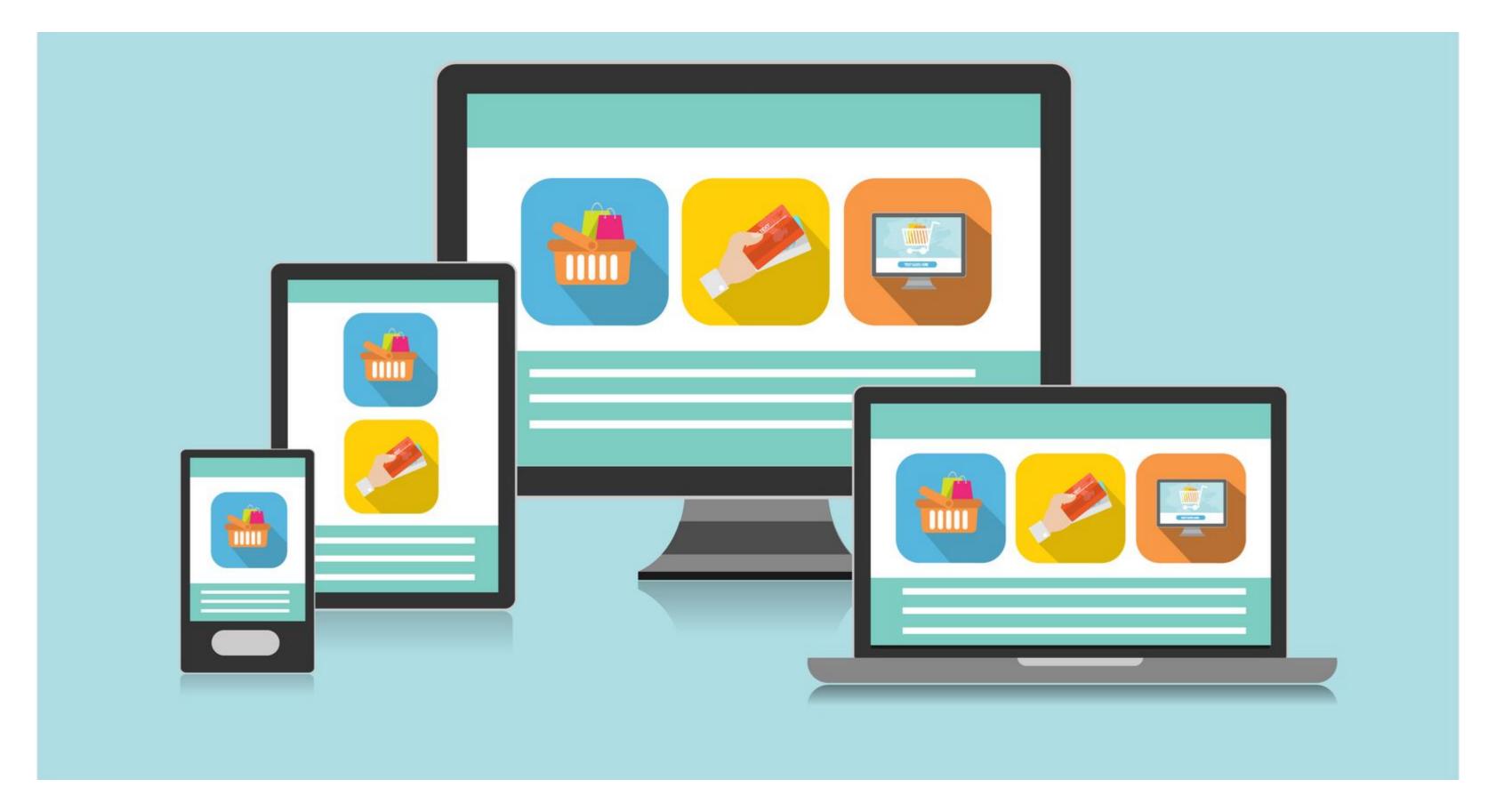
- 1, Giới thiệu Bootstrap CSS Framework
- 2, Hướng dẫn cài đặt
- 3, Grid System cơ bản
- 4. Các class thông dụng
- 5. Thực hành buổi 1 về Bootstrap



## Bootstrap là gì?



## 1. Giới thiệu Bootstrap



Từ khoảng 2005 khái niệm Responsive xuất hiện



### 1. Giới thiệu Bootstrap



### Bootstrap là một framework CSS hướng tới:

- + Xây dựng giao diện nhanh chóng, dễ dàng, chuyên nghiệp
- + Hỗ trợ xây dựng website responsive
- + Hướng tới mobile-first

Ra đời năm 2011, hoàn toàn miễn phí Bootstrap 3 (2013) và 4 (2018) sử dụng kèm theo Jquery Bootstrap 5 (2022) chuyển sang dung JS thay vì JQuery





### 2. Cài đặt Bootstrap



Cách 1: download bootstrap và đưa vào dự án <u>link</u>

Cách 2: liên kết resource của bootstrap vào trang link



### 2. Cài đặt Bootstrap

## Đặt độ rộng cho màn hình bằng class container

Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	X-Large ≥1200px	XX-Large ≥1400px
100%	540px	720px	960px	1140px	1320px
100%	540px	720px	960px	1140px	1320px
100%	100%	720px	960px	1140px	1320px
100%	100%	100%	960px	1140px	1320px
100%	100%	100%	100%	1140px	1320px
100%	100%	100%	100%	100%	1320px
100%	100%	100%	100%	100%	100%
	<576px  100%  100%  100%  100%  100%  100%	<576px ≥576px 100% 540px 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100% 100%	<576px ≥576px ≥768px       100% 540px 720px       100% 720px       100% 720px       100% 100% 720px       100% 100% 100%       100% 100% 100%       100% 100% 100%	<576px       ≥576px       ≥768px       ≥992px         100%       540px       720px       960px         100%       540px       720px       960px         100%       100%       720px       960px         100%       100%       100%       960px         100%       100%       100%       100%         100%       100%       100%       100%	<576px       ≥576px       ≥768px       ≥992px       ≥1200px         100%       540px       720px       960px       1140px         100%       540px       720px       960px       1140px         100%       100%       720px       960px       1140px         100%       100%       100%       960px       1140px         100%       100%       100%       100%       1140px         100%       100%       100%       100%       100%

## Grid System co bản

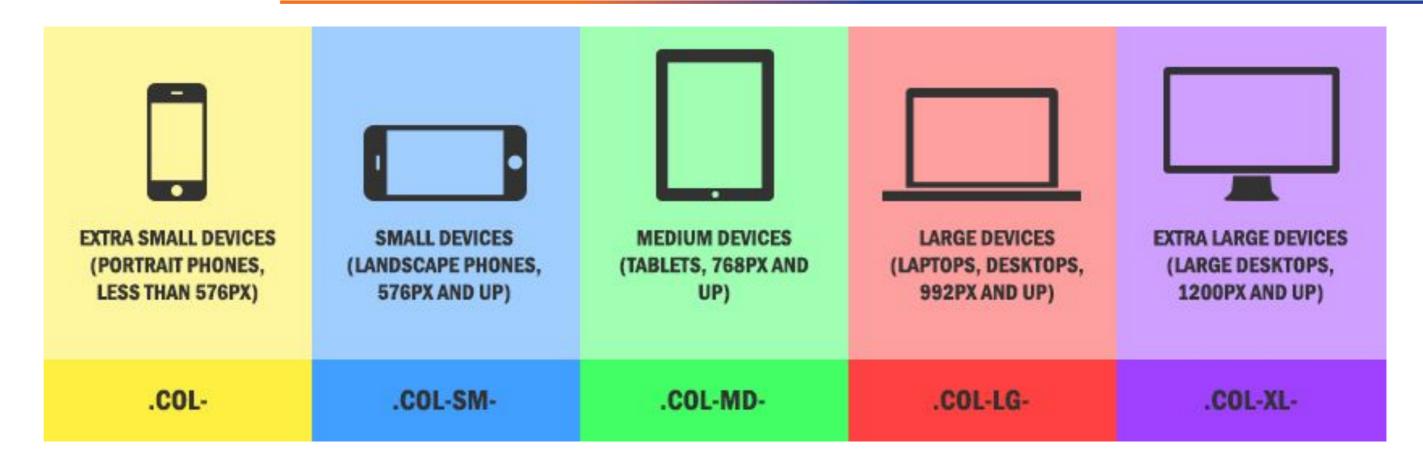
## Bootstrap chia một dòng thành 12 phần

| span 1 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|        | spa    | an 4   |        |        | spa    | an 4   |        |        | spa    | n 4    |        |
|        | spa    | n 4    |        |        |        |        | spa    | n 8    |        |        |        |
|        |        | spa    | n 6    |        |        |        |        | spa    | in 6   |        |        |
|        |        |        |        |        | spai   | n 12   |        |        |        |        |        |

### Độ rộng của cột sẽ quy định bởi chỉ số đi kèm



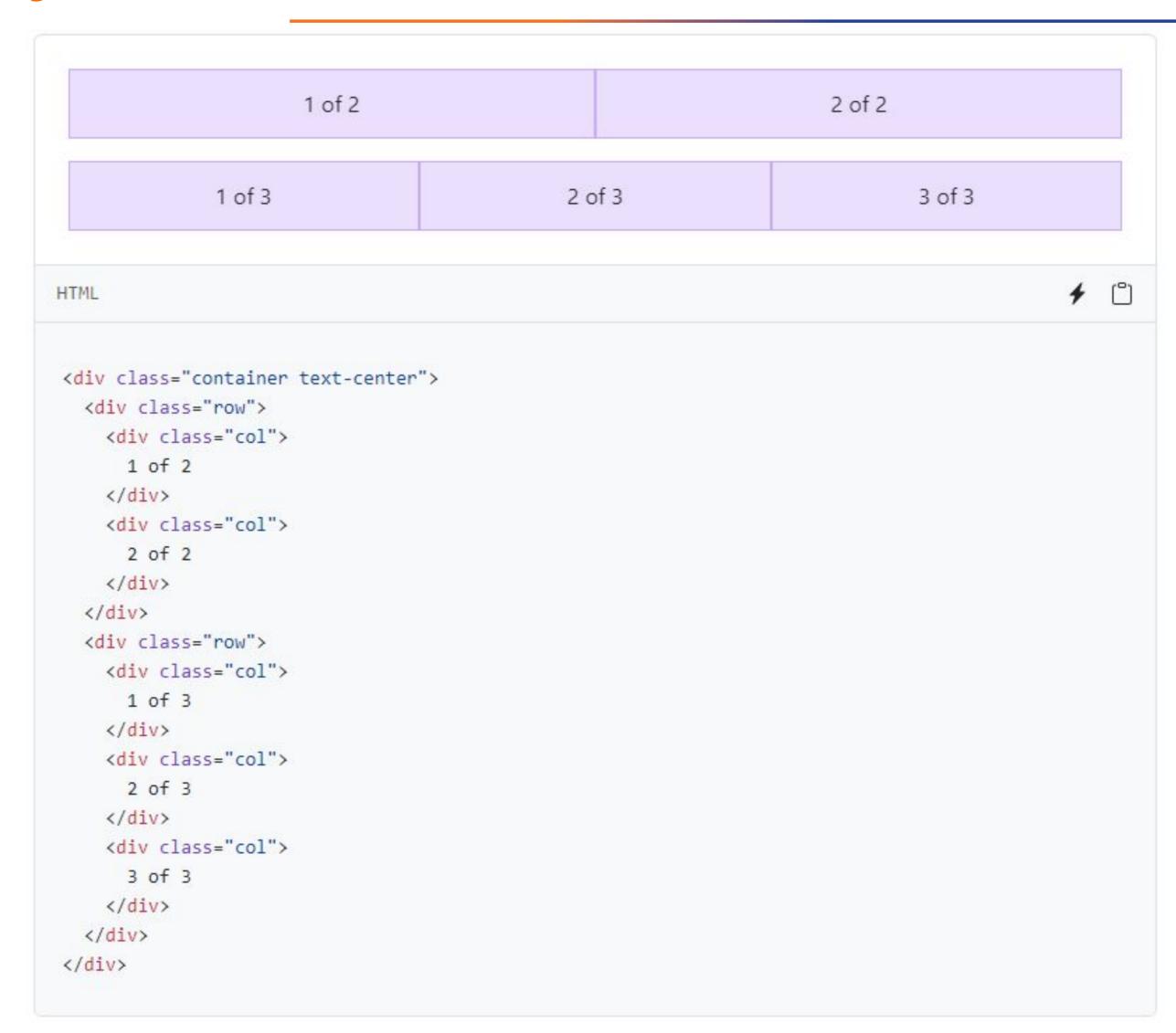
# Các break point của bootstrap



Class infix	Dimensions
None	<576px
sm	≥576px
md	≥768px
lg	≥992px
xl	≥1200px
xxl	≥1400px
	None sm md lg x1

### HỌC ĐỂ THAY ĐỔI

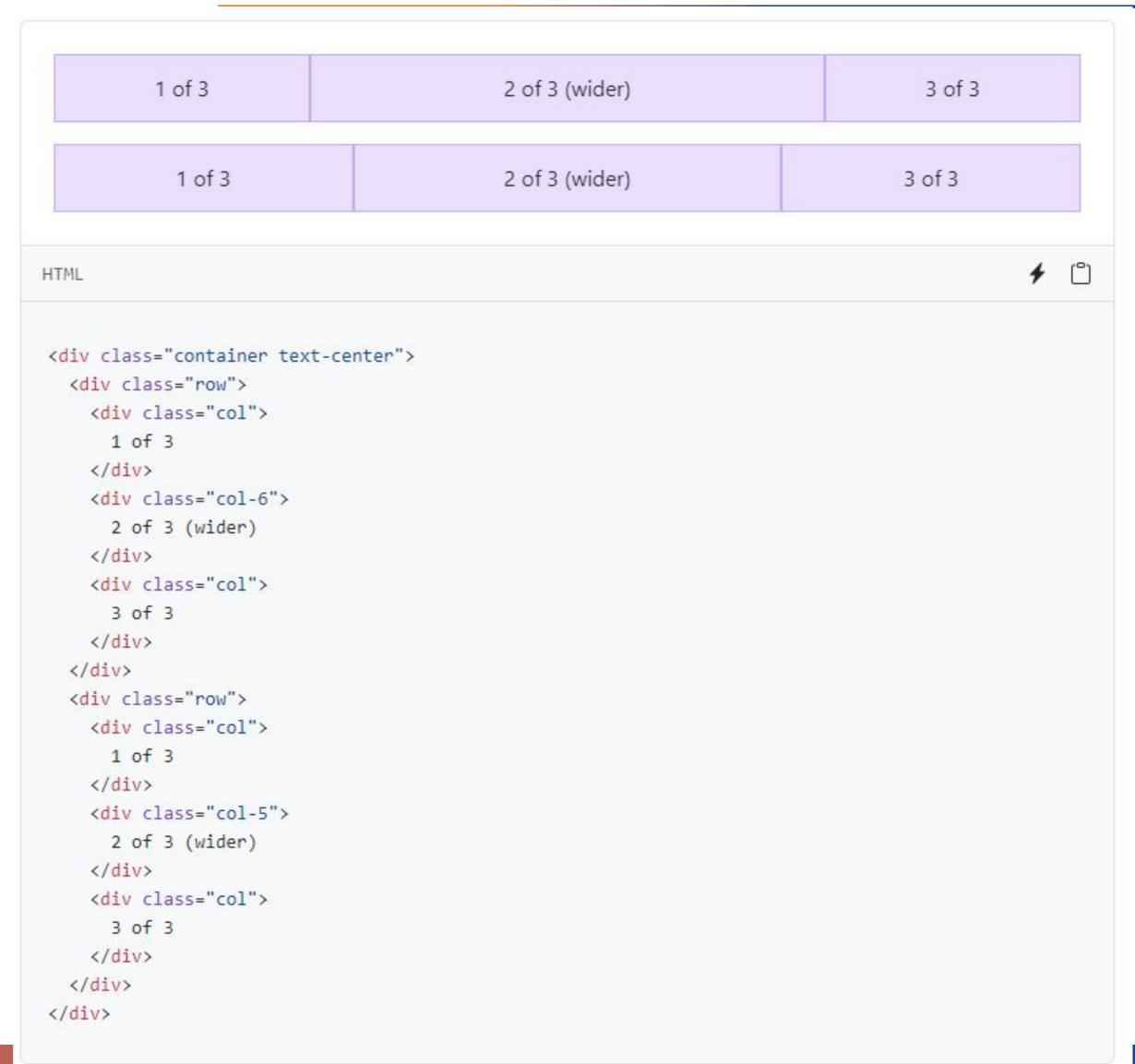
# Chia đều các cột





### HỌC ĐỂ THAY ĐỔI

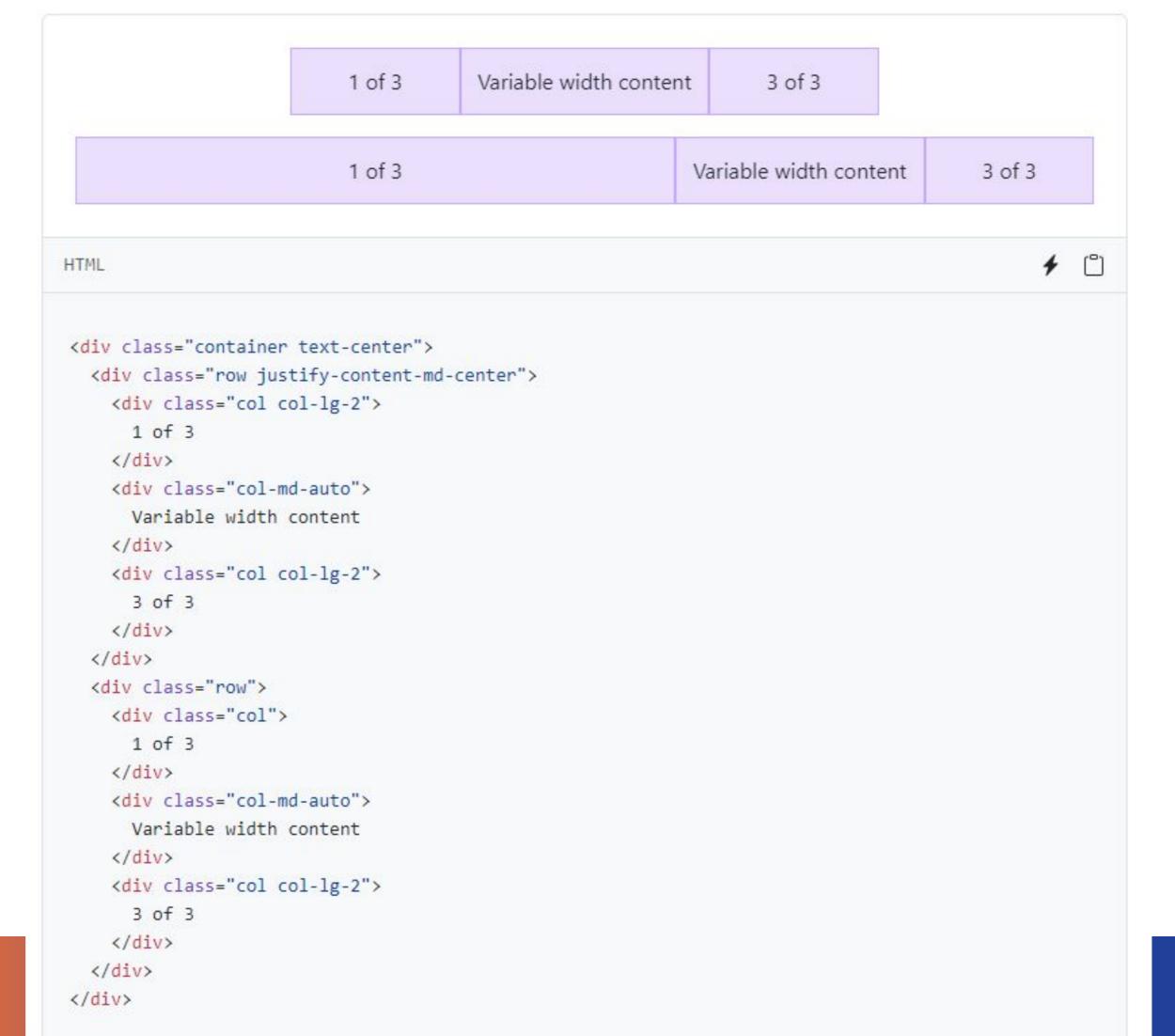
Chỉ định độ rộng một số cột



# Chỉ định độ rộng vùa đủ content

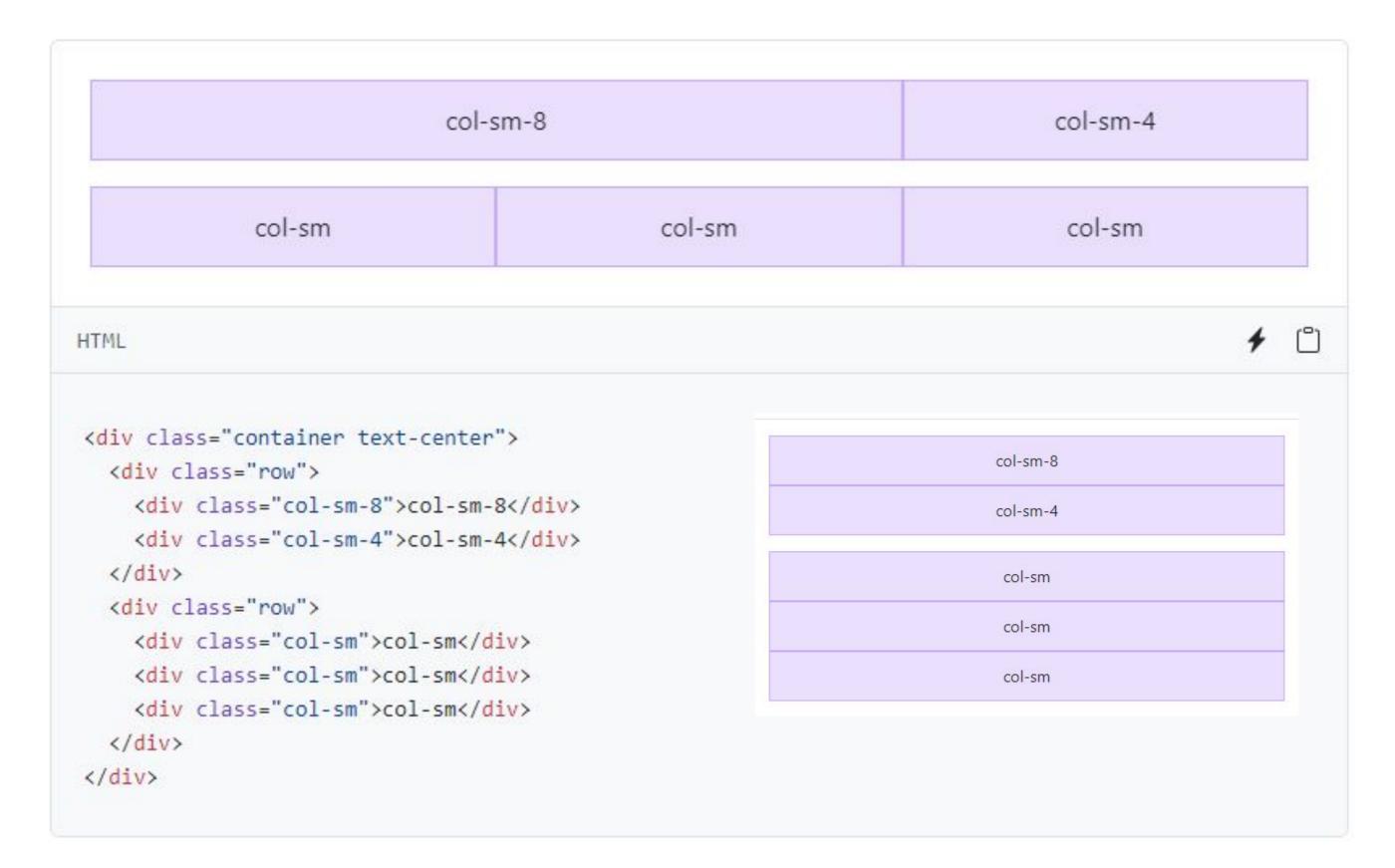
### Variable width content

Use col-{breakpoint}-auto classes to size columns based on the natural width of their content.





## Sếp chồng



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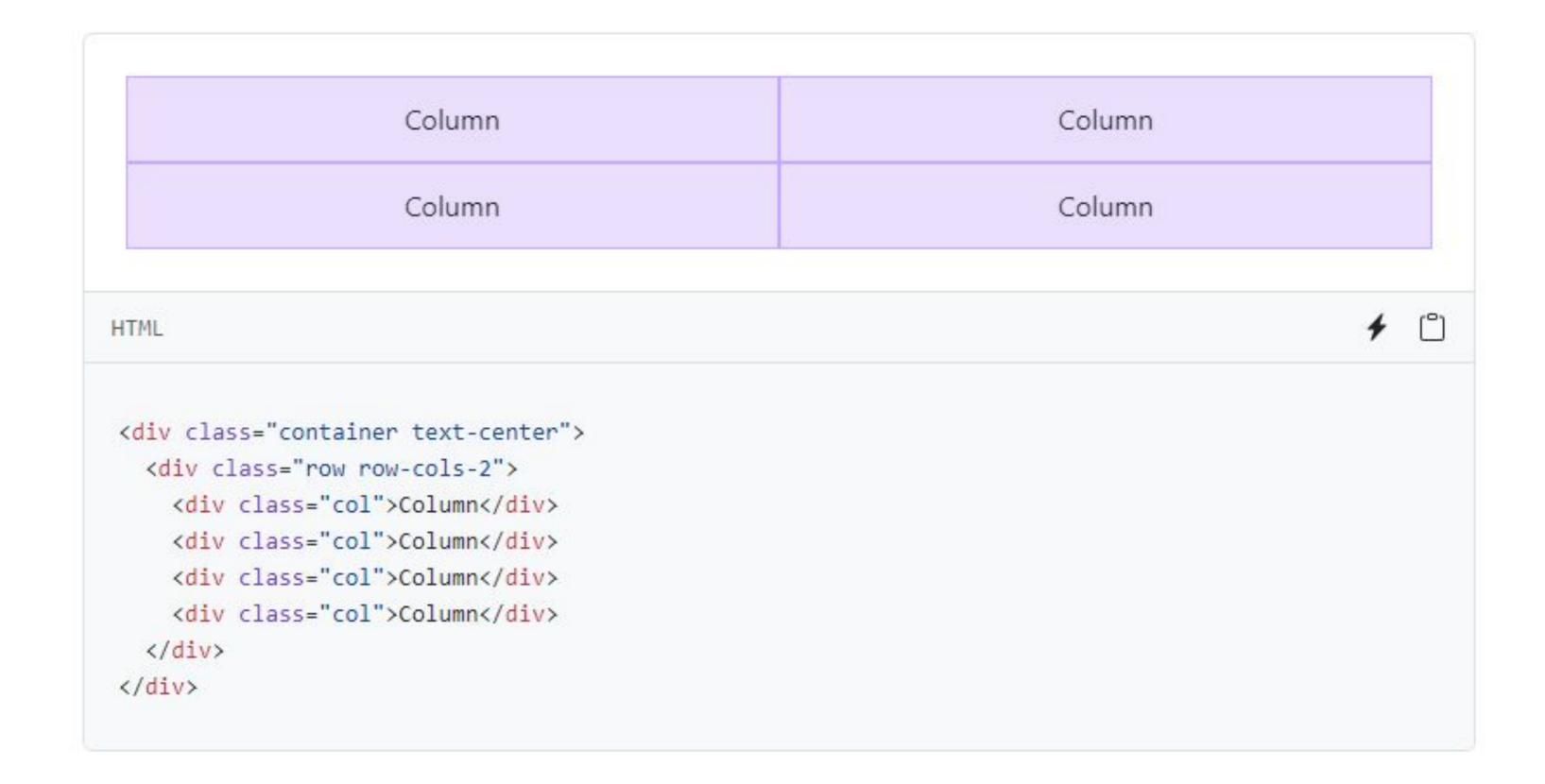
## Sép chồng nhiều bậc

.col-	.col-md-8		
.col-6 .col-md-4	.col-6 .col-md-4	.col-6 .col-md-4	
.col-6		.col-6	

.col-	md-8
.col-6 .col-md-4	
.col-6 .col-md-4	.col-6 .col-md-4
.col-6 .col-md-4	
.col-6	.col-6



# Chỉ định nhanh số cột



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### HỌC ĐỂ THAY ĐỔI

Chỉ định khoảng cách giữa các cột g, gx, gy

```
Custom column padding
   Custom column padding
   Custom column padding
                                                    Custom column padding
                                                                                                Сору
<div class="container">
 <div class="row g-2">
   <div class="col-6">
     <div class="p-3 border bg-light">Custom column padding</div>
   </div>
   <div class="col-6">
     <div class="p-3 border bg-light">Custom column padding</div>
   </div>
    <div class="col-6">
     <div class="p-3 border bg-light">Custom column padding</div>
   </div>
    <div class="col-6">
     <div class="p-3 border bg-light">Custom column padding</div>
   </div>
  </div>
</div>
```

## Thực hành

### **Cinque Terre**

### Resize the browser window

The	14/-1	11.
The	wa	K

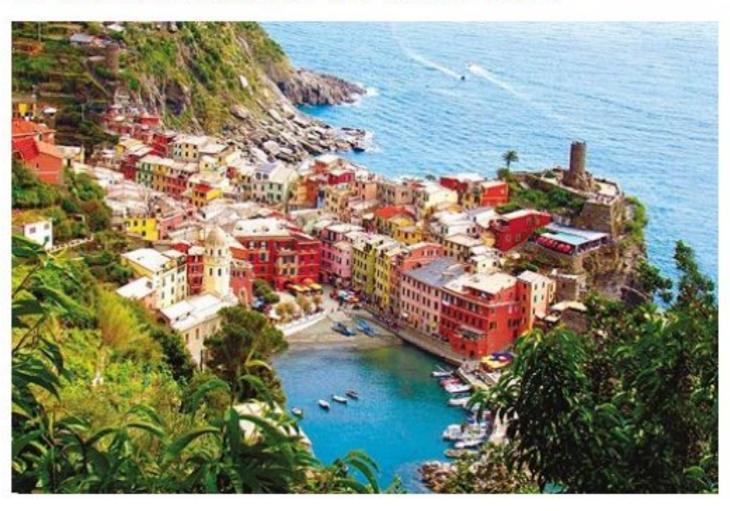
### Transport

History

Gallery

### The Walk

The walk from Monterosso to Riomaggiore will take you approximately two hours, give or take an hour depending on the weather conditions and your physical shape.



### What?

Cinque Terre comprises five villages: Monterosso, Vernazza, Corniglia, Manarola, and Riomaggiore.

### Where?

On the northwest cost of the Italian Riviera, north of the city La Spezia.

### Price?

The Walk is free!

This web page is a part of a demonstration of fluid web design made by w3schools.com. Resize the browser window to see the content respond to the resizing.



## Điều chỉnh kích thước: {property} – {value}

Value = 25, 50, 75, 100, auto

property = w, h

property = mw (max width), min-vw, min-vh, vw, vh chỉ đi với value là 100



## Diều chỉnh margin, padding: {property}{sides}-{breakpoint}-{size}

```
property = m (margin), p (padding)

sides =
    t (top),
    b (bottom),
    s (start = left/right tùy ngôn ngữ),
    e (end = right/left tùy ngôn ngữ),
    x (cả left và right),
    y (cả top và bottom)

size = 0 (0 rem), 1 (0.25rem), 2 (0.5rem), 3 (1rem), 4 (1.5rem), 5 (3rem), auto
```



## Điều chỉnhText:

- Căn lề chữ: text-start, text-center, text-end, text-md-start .... có thể kết hợp với các breakpoint
- Chế độ xuống dòng: text-wrap, text-nowrap kết hợp các thuộc tính background
- Chữ hoa, chữ thường: text-lowercase, text-uppercase, text-capitalize
- **Font size**: fs-1 -> fs-6
- Font-weight: fw-bold, fw-bolder, fw-normal, fw-light, fw-lighter, fst-italic, fst-normal
- Line height: Ih-1, Ih-sm, Ih-base, Ih-lg
- Căn dọc: align-baseline, align-top, align-middle, align-bottom, align-text-top, align-text-bottom

## Màu sắc:

.text-primary		
.text-secondary		
.text-success		
.text-danger		
.text-warning		
.text-info		
.text-light		
.text-dark		
.text-body		
.text-muted		
.text-white		
.text-black-50		
.text-white-50		

### HỌC ĐỂ THAY ĐỔI

## Màu nền:

.bg-primary
.bg-secondary
.bg-success
.bg-danger
.bg-warning
.bg-info
.bg-light
.bg-dark
.bg-body
.bg-white
.bg-transparent



### 5. Thực hành

### HỌC ĐỂ THAY ĐỔI

## Dựng lại giao diện CV này, tùy biến cho trường hợp hiển thị trên mobile



### Michael Kaye

Master's Student in Finance

#### **Contact Details**

- **J** 0777777777
- michael@mkaye.com
  - O Dundee

### **Core Skills**

- Corporate finance
- Bookkeeping processes
- Market research
   Advanced Excel
- International business
- · Research and statistics
- Financial statements analysis
- Managerial accounting
- · Investment management

### **Professional Profile**

Adaptable accounting and finance student with a keen interest in corporate finance and a sound academic knowledge of accounting. Currently studying towards a master's degree and familiar with financial statements and analysis, advanced corporate finance, managerial accounting, statistics, and business financing. A strong communicator, committed to building relationships with classmates to complete financial projects. Recently certified in corporate finance and proficient in Advanced Excel, demanding attention to detail and strong quantitative and analytical skillsets.

### Education

- MSc Accounting and Finance (graduating 2023) | Dundee University | Sep 2021 | Key modules: Financial Statements & Analysis, Advanced Corporate Finance, Advanced Market Research, Management & Organisation.
- Level 3 Certificate in Corporate Finance | The Chartered Institute for Securities & Investment | May 2022 | Syllabus: The Regulatory Environment in the UK, The FCA Conduct of Business Source Book, Corporate Governance & Business Ethics, Takeovers & Mergers, Prospectuses, Equity Capital Markets, Quantitative Methods for Corporate Finance, Finance Statements Analysis, Capital Structure, Introduction to Business Valuations, Corporate Transactions, Corporate Finance Documentation.
- Investment Management Certificate | CFA Society | May 2021 |
  Syllabus: Financial Markets & Institutions, Ethics & Investment
  Professionalism, The Regulation of Financial Markets & Institutions,
  Legal Concepts, Client Advice, Taxation in the UK, Quantitative
  Methods, Micro-economics, Macro-economics, Accounting, Equities,
  Fixed Income, Derivatives, Alternative Investments, Portfolio
  Management, Investment Products, Investment Performance
  Management.
- BA International Business (2:1) | Dundee University | Sep 2018 May 2021 |
  Key modules: Finance, Corporate Finance, Foundations of Accounting, Managerial Accounting, Statistics I, Statistics II, Business Finance.
- 4 x A Levels (grades AABB) | Dundee Sixth Form | Sep 2016 May 2018 |
- 12 x GCSEs (grades A-C) | Dundee School | Sep 2014 May 2016 |

### Additional

#### Software

MS Office, Sage, Thomson Reuters

#### Languages

English (native)

Page 1



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### HỌC ĐỂ THAY ĐỔI

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## Xin cảm ơn!

Nguyễn Hà Thanh

Giảng viên khoa CNTT Zalo: 0985 308 801