

NAMING METHODOLOGIES :BEM



Lesson plan

1

Introduction to Naming Methodologies

2

Fundamentals of the BEM Methodology

3

Class names rules

4

BEM for UI KI

Attribute

class

- ◆ In HTML, a **class** is a label (tag) for a group of elements.
- ◆ In CSS, a **class** is a tool for styling multiple elements at once.

HTML:

```
<button class="button">Button</button>  
<a class="button">Link</a>
```

CSS:

```
.button {  
    background-color: red;  
}
```

Attribute

class

- ✓ Group elements and style them all at once
- ✓ Less code duplication
- ✓ Easier to update styles in one place

A good class name should answer the question, "What does this element do?"

.this-is-catalog-block-item
.big-red-button-in-catalog

```
<div class="product-card product-card--highlighted">  
  <img class="product-card__image">  
  <h2 class="product-card__title">Item name</h2>  
  <button class="product-card__button  
    product-card__button--disabled">Buy</button>  
</div>
```



How to name class

- A good class name should answer the question:

"What does this element do?"

General rules

class

Not recommended	Better
<ul style="list-style-type: none">Use only English words, no transliteration	
krasnaya-knopka	error-button
<ul style="list-style-type: none">Written in lowercase	
PageHeader	page-header

General rules

class

Not recommended	Better
<ul style="list-style-type: none">Avoid using numbers in class names, the order of blocks may change	
first-element	product-item-highlighted or later choose needed element with css selector
<ul style="list-style-type: none">The name should be clear	
btn-01	button-primary
<ul style="list-style-type: none">No spaces in class names; use hyphens for compound class names	
product item	product-item

General rules

class

Not recommended	Better
<ul style="list-style-type: none">Do not name classes by content, style, or tag, as they may change	
text-in-block	product-item__text
red-button	button button--danger
p1	promo__text

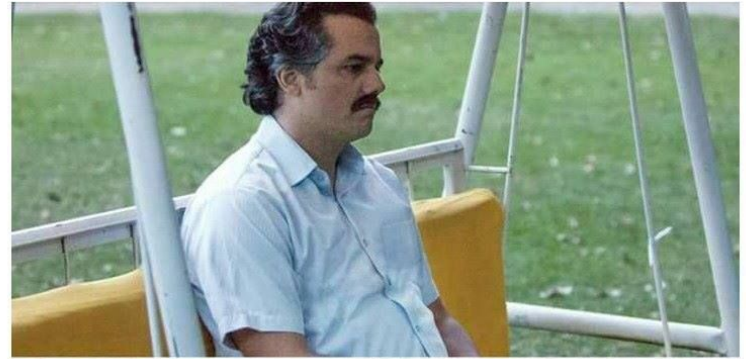
Order Instead of Chaos:

Naming methodology

is a set of rules that helps developers name CSS classes in a way that ensures the code is:

- Understandable
- Consistent
- Scalable

When you try to choose a meaningful class name.



PRACTICE:

LET's TRY TO NAME CLASSES

Popular Naming Methodologies

- **OOCSS** — Separating container and content with CSS “objects”
- **SMACSS** — Style-guide to write your CSS with five categories for CSS rules
- **Atomic** — Breaking down styles into atomic, or indivisible, pieces

BEM

BLOCK / ELEMENT / MODIFIER

HISTORY of BEM

Created by Yandex → **2009**

Published in internet → **2012**

Now used in:

- **Google**
- **Airbnb**
- **BBC**

Brain Rocket 



BLOCK



ELEMENT

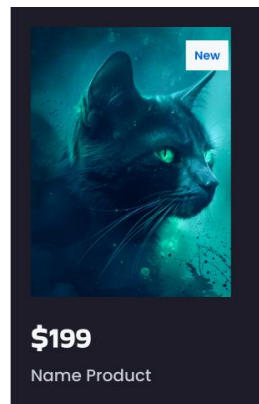


MODIFIER

BLOCK

An **independent component**
that can be reused.

BLOCK examples



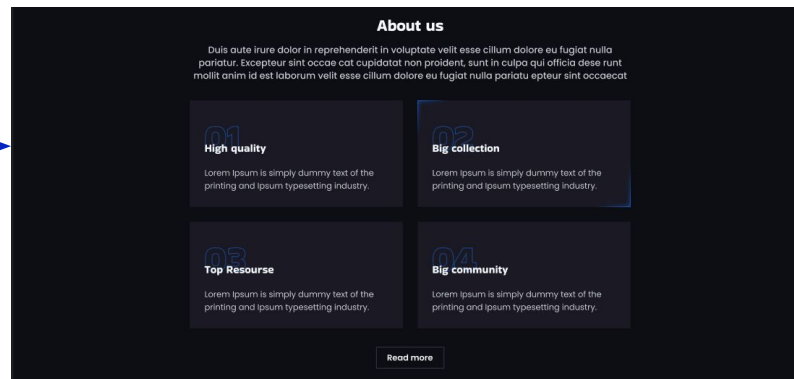
← using in different pages

↑ using on all pages

page section →



← using in many blocks





class="logo"

class="nav"

class="search-form"

class="button"

class="header"

ELEMENT

A part of a block that

cannot exist independently .

class="nav__list"

class="nav__list-item"

class="nav__link"

class="search-form__input"

PRACTICE:

WHAT IS **BLOCK** AND **ELEMENT** IN BINABOX?

MIX

- In UI Kits, components often belong to multiple blocks simultaneously.
- Mixes allow combining styles from different blocks.



class="header__search search-form"

class="header__nav nav"

class="header__logo logo"

class="header"

MODIFIER

A change in the **appearance or behavior** of a block/element.

What can be set for a modifier:

states (active, disable), specific sizes.



class="nav__link nav__link--active"

class="btn btn--primary"

class="header"

Different Ways to Define a Modifier

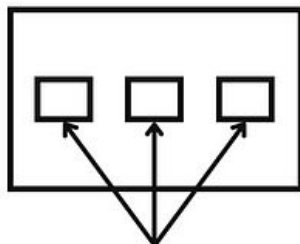
Yandex Approach	Gallagher Approach
_ (one underscore)	-- (two dashes)
<code>block_modifier</code>	<code>block--modifier</code>

BEM IN CSS



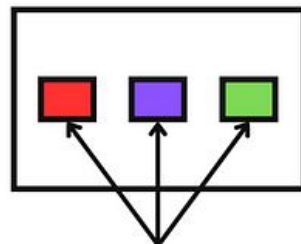
Block

A navigation bar with `.nav`



Element(s)

Each item in navigation bar with `.nav__item`



Modifier

Add property to each item by adding `.nav__item--red`, `.nav__item--purple`, `.nav__item--green`

PRACTICE:

WHAT IS MODIFIER IN BINABOX?





BEM rules

class

Not recommended	Better
<ul style="list-style-type: none">● Avoid creating overly long names	
<code>card__button--password-large-disabled</code>	<code>card__button</code> <code>card__button--large</code> <code>card__button--disabled</code>



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Read more >

- Use mixes to combine styles

```
class="button  
button--card"
```

```
class="button  
card_button"
```

BEM rules

class



Not recommended	Better
<ul style="list-style-type: none">Do not mix class naming	
<code>class="block1__element block2__element"</code>	<code>class="block__element"</code>
<ul style="list-style-type: none">Each element belongs only to its own block !super common mistake	
<code>block__element__subelement</code>	<code>block__subelement</code>
<ul style="list-style-type: none">Modifiers do not change the meaning of a block or element	
<code>class="button--form-submit"</code>	<code>class="button--large button--disabled"</code>

BEM rules

class

Not recommended	Better
<ul style="list-style-type: none">● Avoid using global names for independent classes, especially when this classes have to be used as modifiers	
<code>menu__item active</code> <code>card highlighted</code>	<code>menu__item--active</code> <code>card--highlighted</code>
<ul style="list-style-type: none">● A modifier cannot be used without the base class !super common mistake	
<code>class="button--large"</code>	<code>class="button button--large"</code>



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PRACTICE:

LET's TRY TO CREATE CLASSES



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```
<div class="blog-card">
  <img class="
    blog-card__image
  ">
  <div class="
    blog-card__label
  ">NFT</div>
  <div class="
    blog-card__title
  ">Sonic live</div>
  <div class="
    blog-card__button
    button
    button--large
    button--icon
  ">Read more</div>
</div>
```

USE BEM WITH UI KIT

button

--primary /secondary /basic
--large / small / medium
--icon
--active / disabled

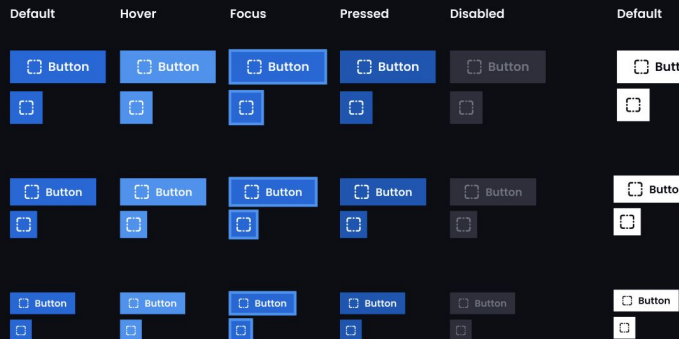
input

--checked / invalid / valid

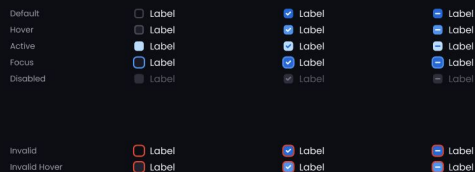
card

--sold / new / popular

Buttons



Checkbox



Quality Criteria for HTML Course

❤️ Mandatory for passing the course

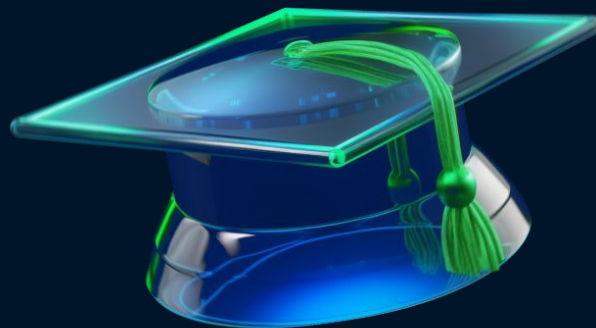
🟡 Required for the highest grade

💚 Optional

- ❤️ All independent components are defined as separate blocks.
- ❤️ All subordinate parts are correctly defined as elements.
- ❤️ Modifiers correctly describe states or variations.
- ❤️ BEM syntax rules are followed
- ❤️ Modifiers must not include: Colors, Numbers, Tag names.
- ❤️ Modifiers cannot be used as the only class on a tag.
- ❤️ Block, element, and modifier names must be meaningful.
- ❤️ Classes must use only Latin letters and be written in lowercase.

Summary

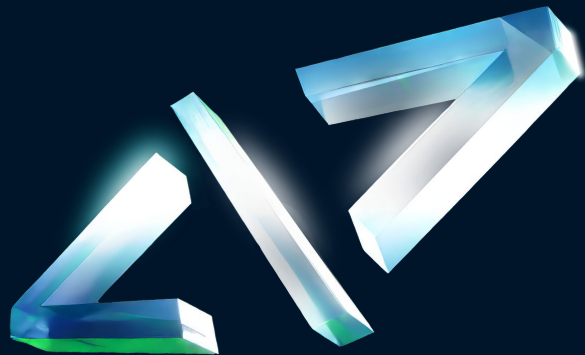
1. What is naming Methodologies and Why It's Important
2. Popular naming Methodologies
3. Core Concepts of BEM and Syntax Rules:
 - block
 - element
 - modifier
 - mix
4. Best Practices for Naming Classes
5. BEM for UI KIT



Homework

1. Add classes to your markup, using BEM:

- BLOCKS
- ELEMENTS
- MODIFIERS



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It's very important for us

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THANK YOU!

QUESTIONS?