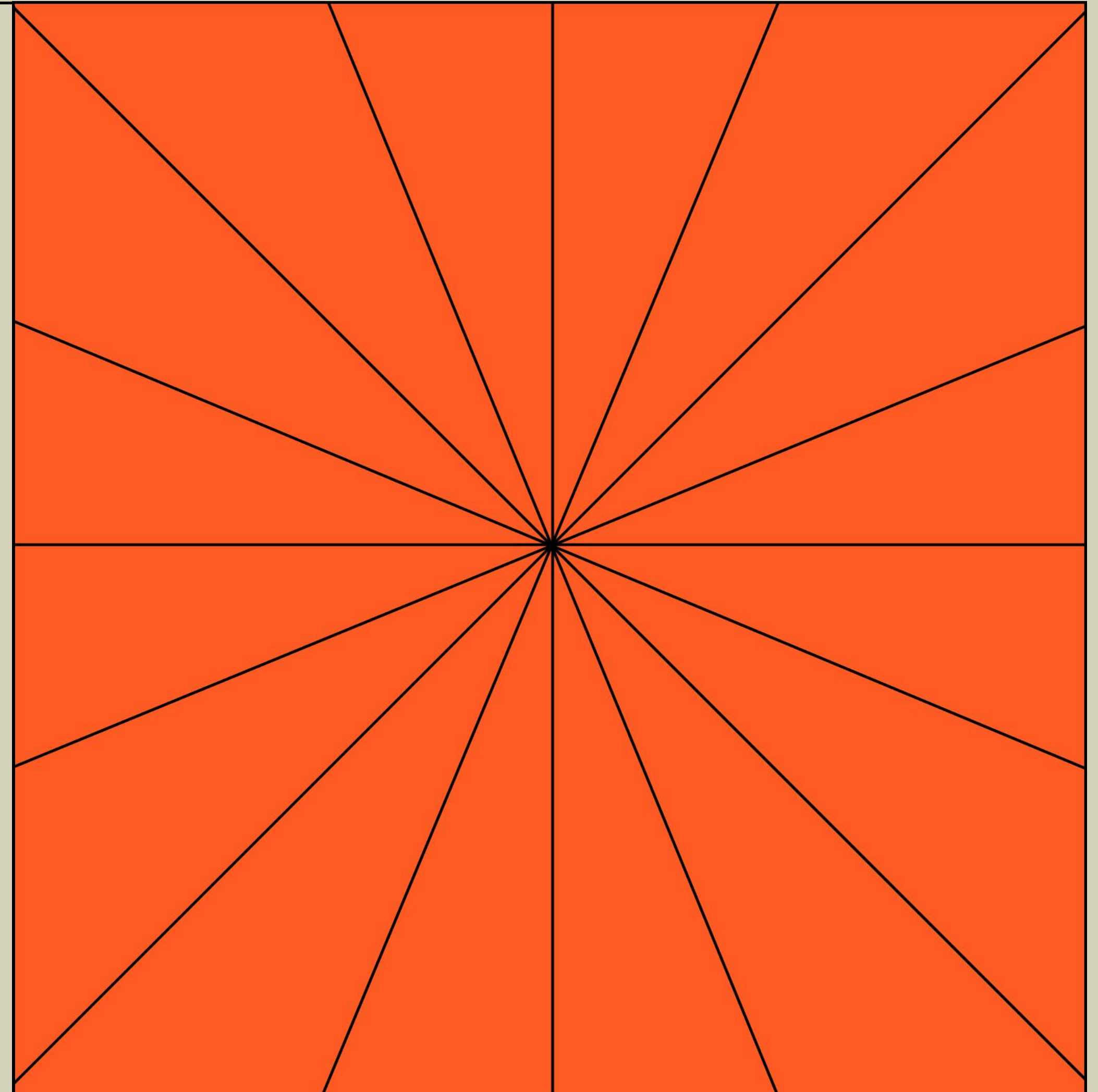


ATOMIC DESIGN & BEM

How to understand user interface & write modular CSS.



Season Shrestha



PAGE-BASED DESIGN THINKING

Designers creates full pages (Home, About, Product) separately instead of reusable components.

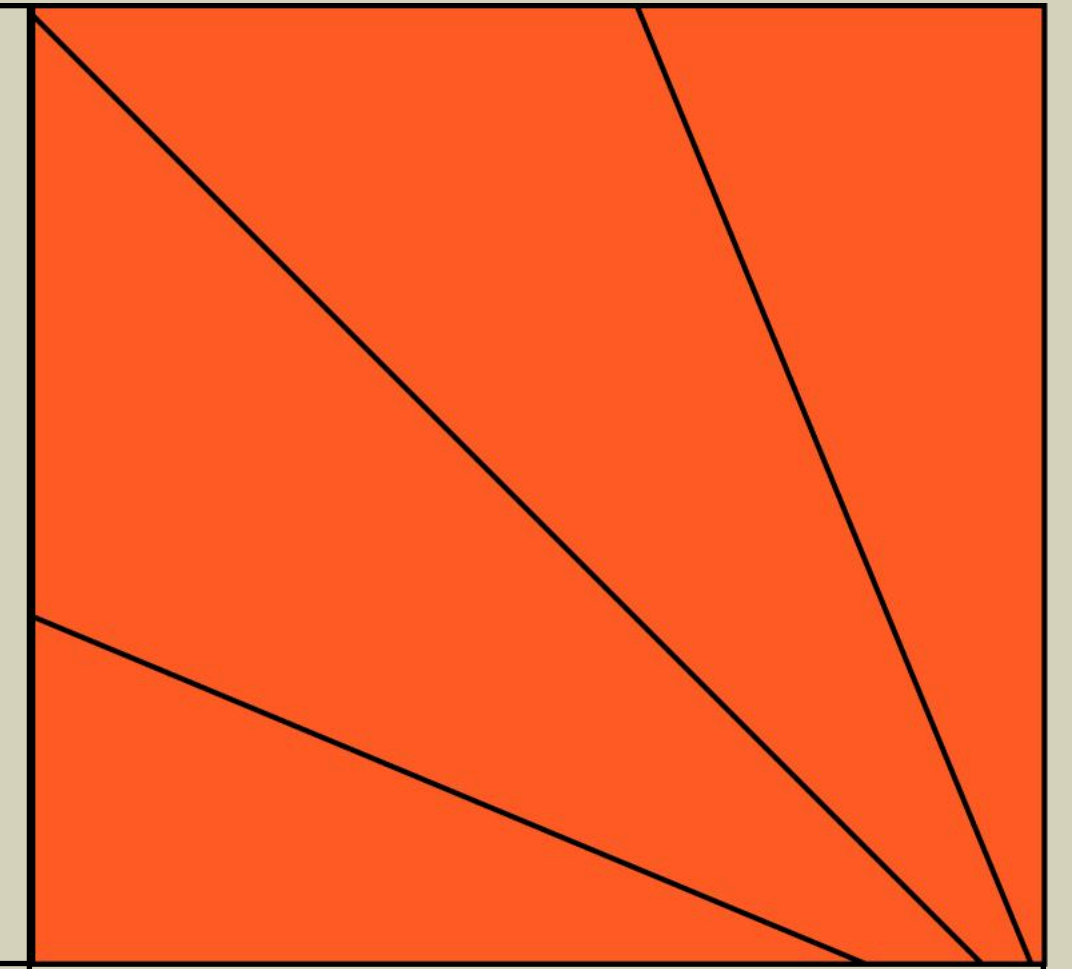


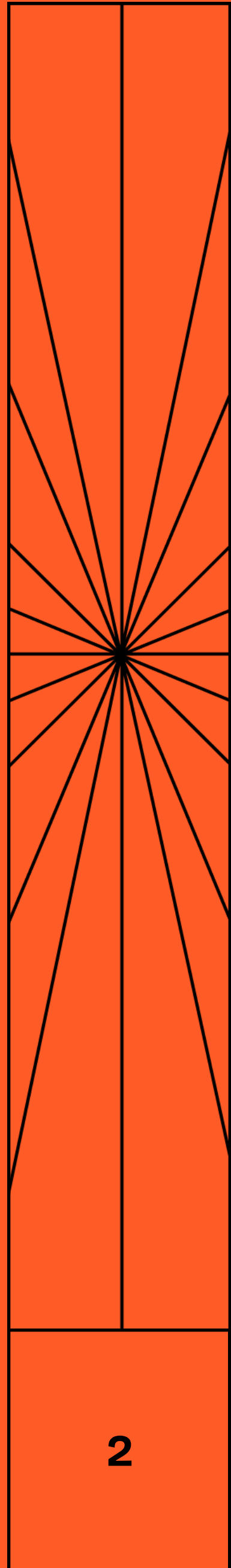
THE MAJOR ISSUES

Inconsistent UI elements (form, buttons, input)

Poor scalability as the site grows

Duplicate and bloated CSS





2

Brad Forst

ATOMIC DESIGN

Methodology for creating **scalable, consistent**
UI design system

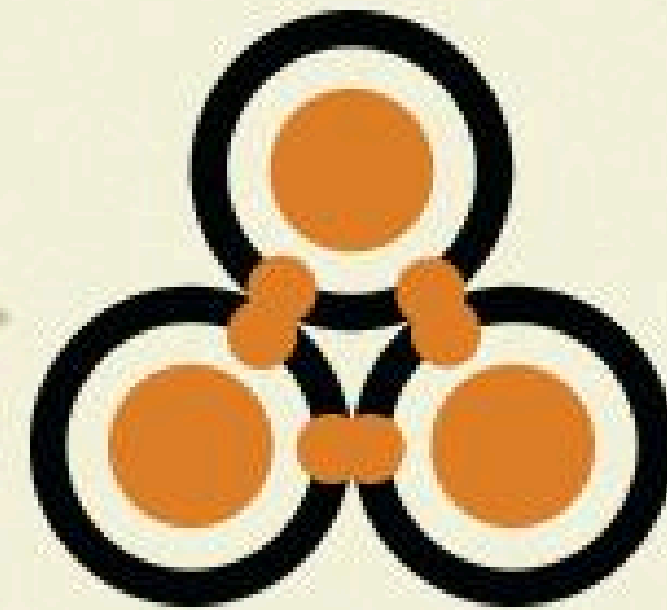
A mental model to help us think of our user
interfaces

Inspired from nature/chemistry

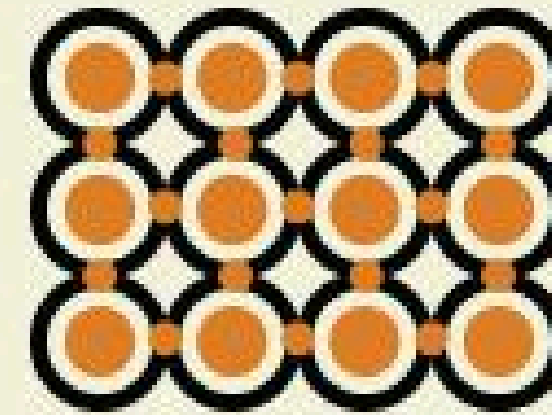
Breaking interface into five different hierarchical stages - **atoms, molecules, organisms, templates & pages**



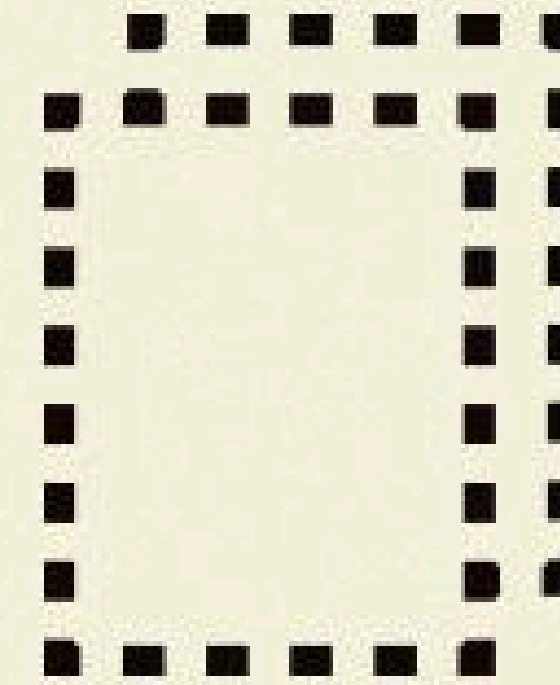
ATOMS



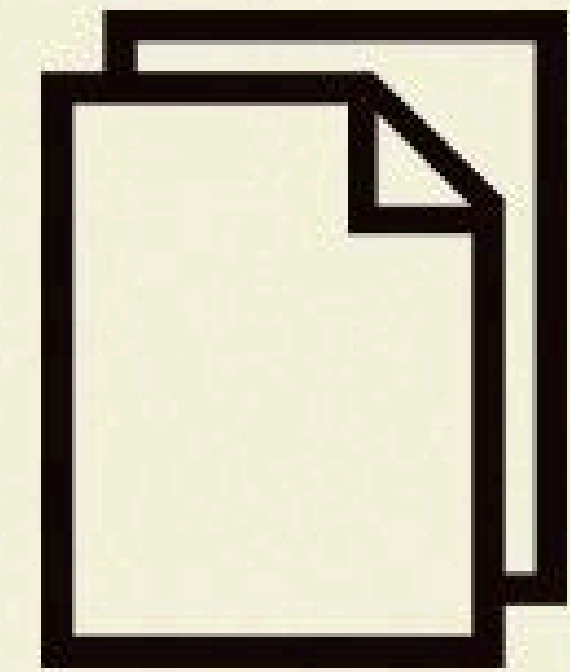
MOLECULES



ORGANISMS

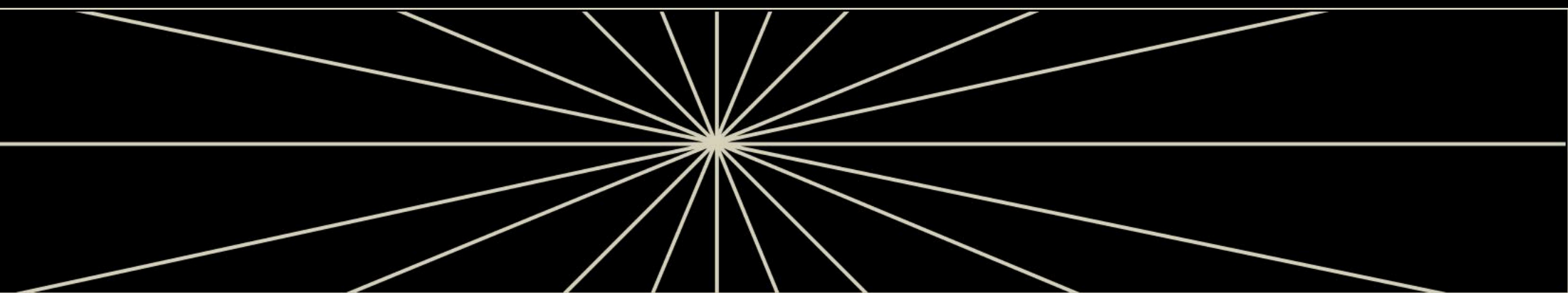


TEMPLATES



PAGES

ATOMS





ATOMS

Foundational HTML Elements
eg. Labels, Input, Buttons

SEARCH THE SITE

LABEL

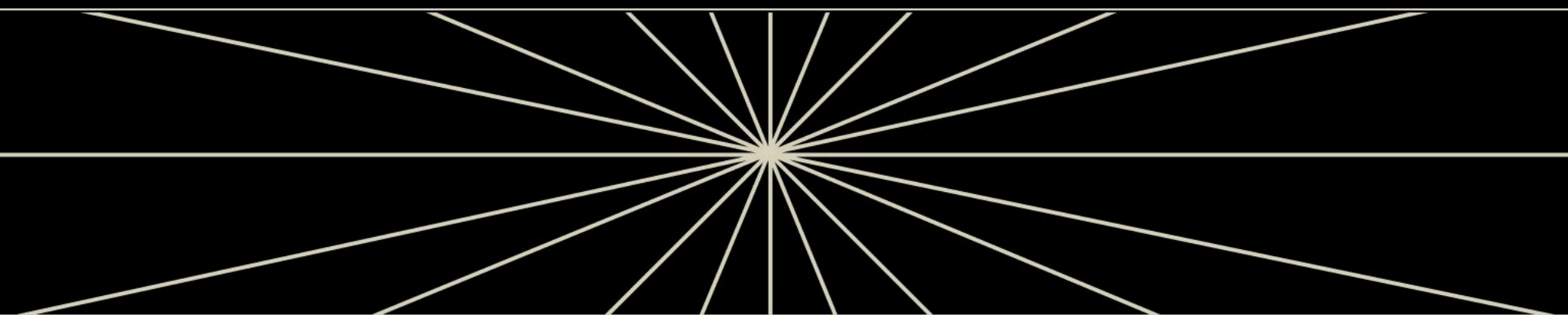
ENTER KEYWORD

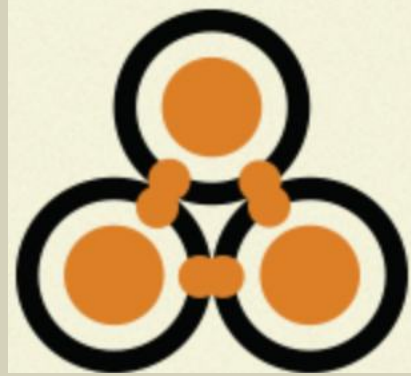
INPUT

SEARCH

BUTTON

MOLECULES





MOLECULES

Group of atoms functioning together

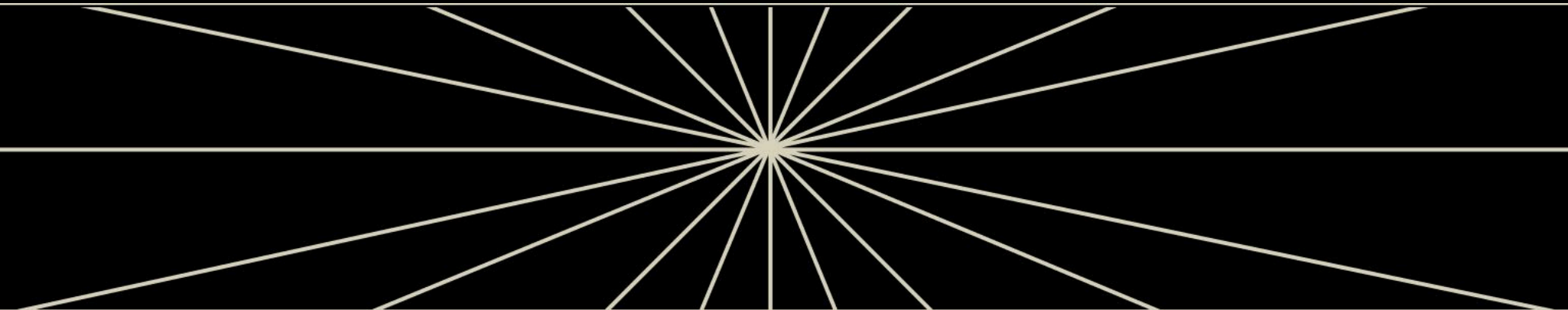
eg. Search Form

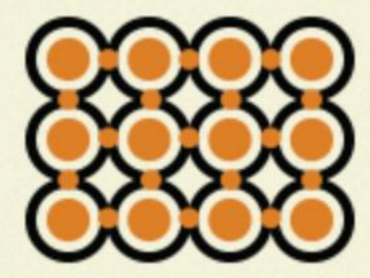
SEARCH THE SITE

ENTER KEYWORD

SEARCH

ORGANISM

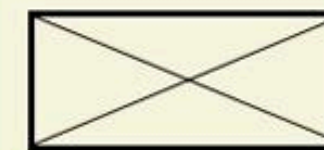




ORGANISM

Complex components composed
of molecules and atoms

eg. Header



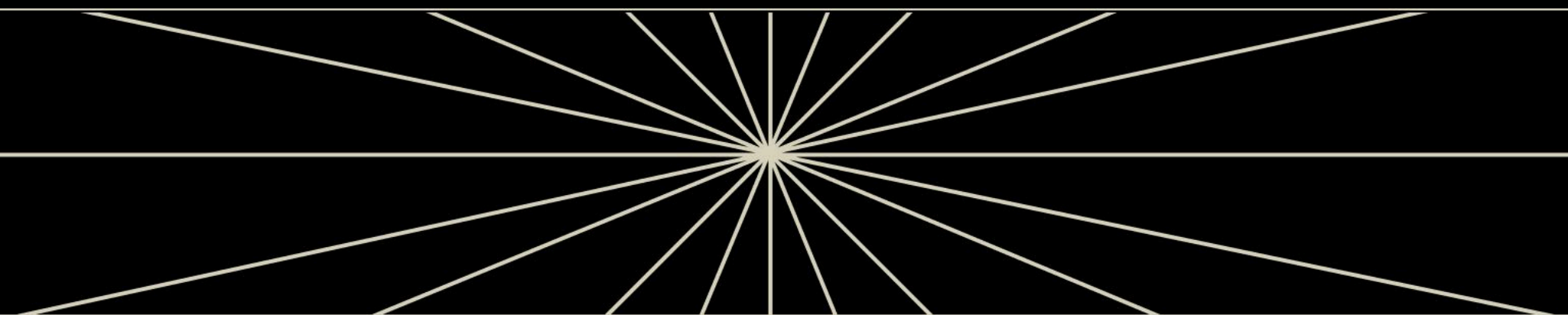
[Home](#) [About](#) [Blog](#) [Contact](#)

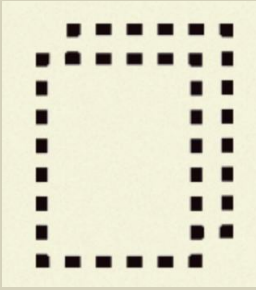
SEARCH THE SITE

ENTER KEYWORD

SEARCH

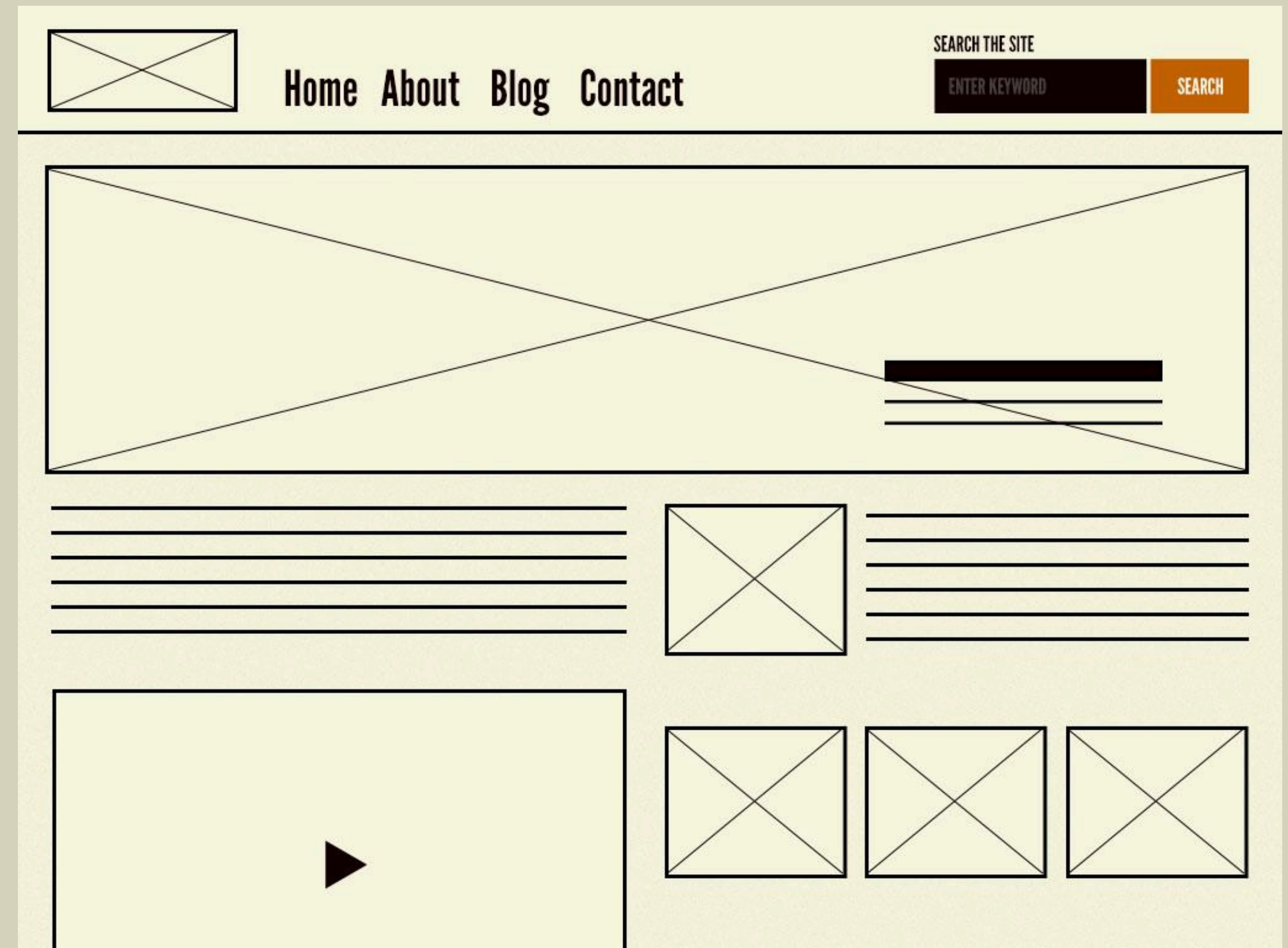
TEMPLATES



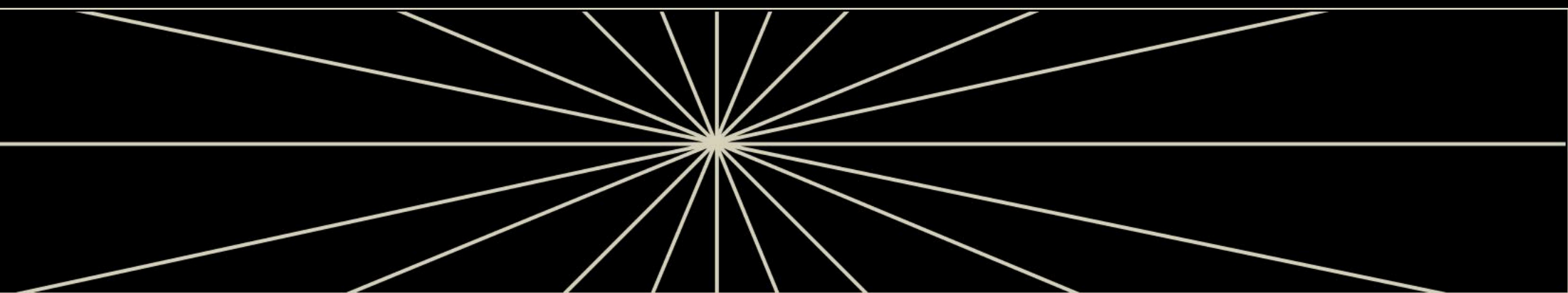


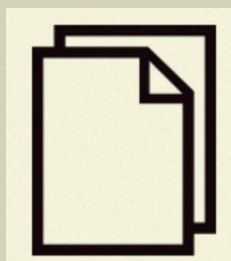
TEMPLATES

Page level objects that place component into a layout



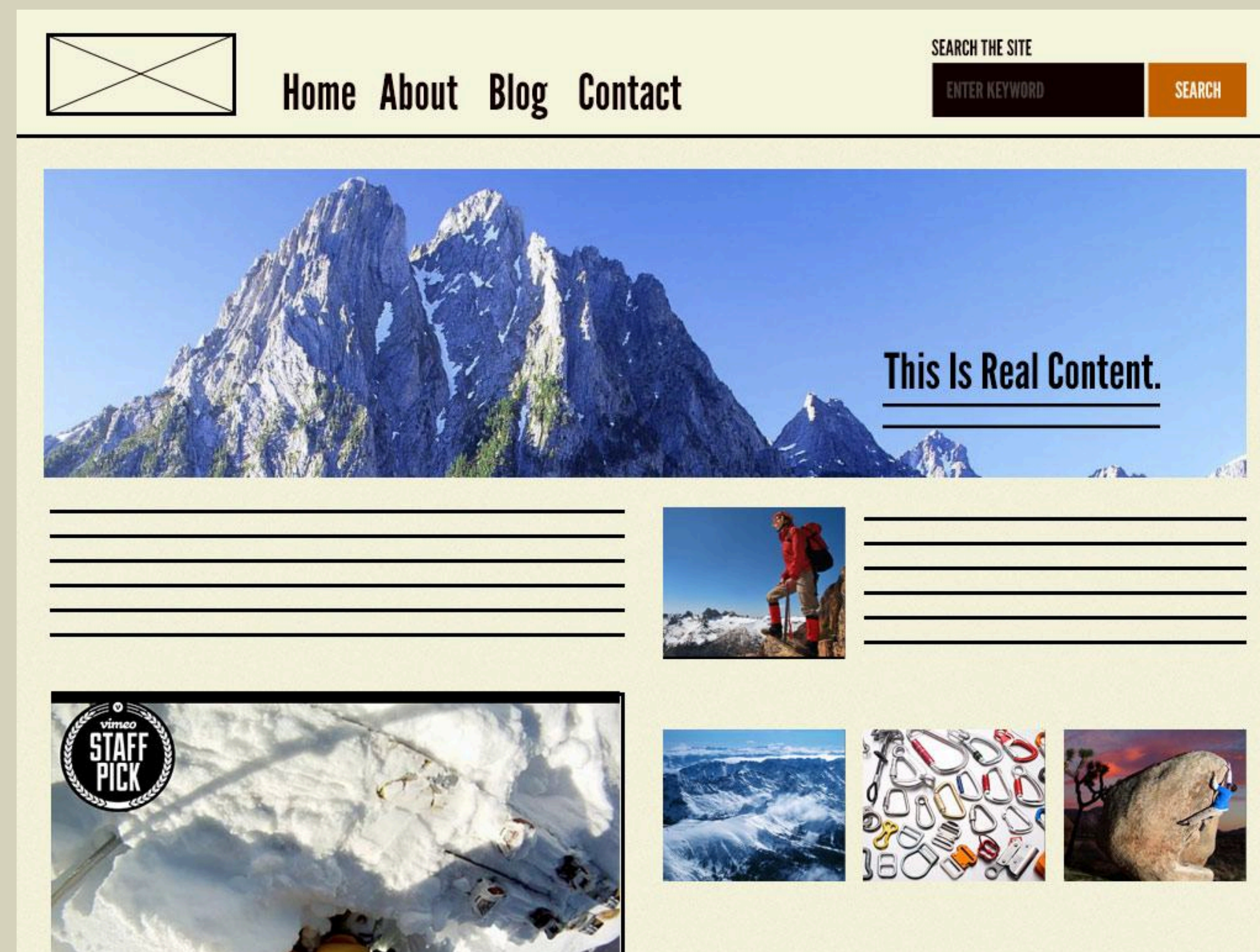
PAGES





PAGES

Specific instances of templates that show what a UI looks like with real representative content in place.



CSS NAMING CONVENTIONS

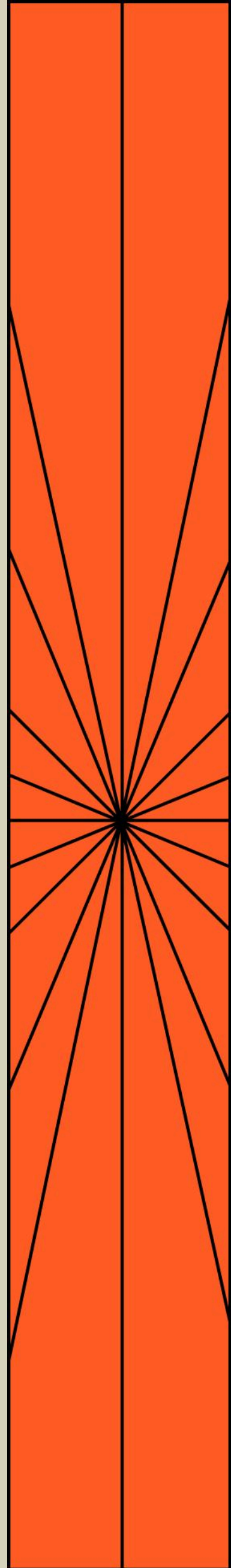


1 BEM (BLOCK ELEMENT MODIFIER)

2 OOCSS (OBJECT ORIENTED CSS)

3 SUIT CSS

4 SMACSS (SCALABLE MODULAR ARCHITECTURE CSS)



BEM - BLOCK ELEMENT MODIFIER

BLOCK	ELEMENT	MODIFIER
Independent, reusable component	Sub-component of a block	Specific variation or state of a block or element,
Header, nav, button, form, card, modal	Title, icon, item, label, etc.	button--primary, card__title--large



THANKS