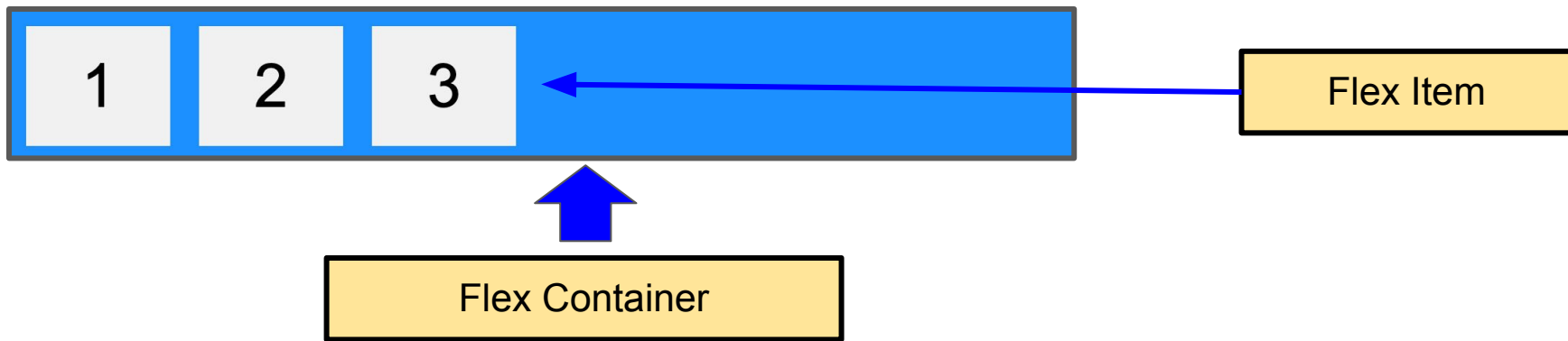


CSS FLEXBOX

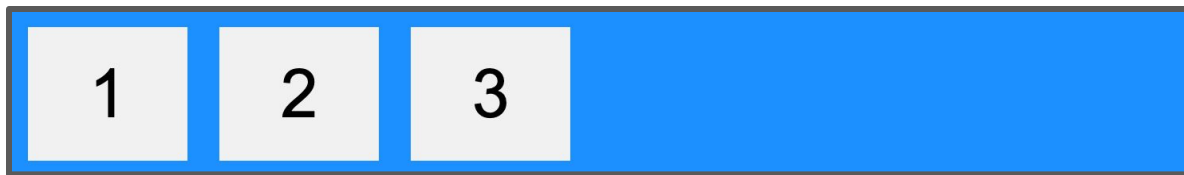
INTRODUCING FLEXBOX

The CSS Flexible Box Layout Module (**Flexbox**), makes it easier to design flexible responsive layouts without using exact positioning by allowing you to define a container with items in it and letting Flexbox control the positioning of the items within the container.

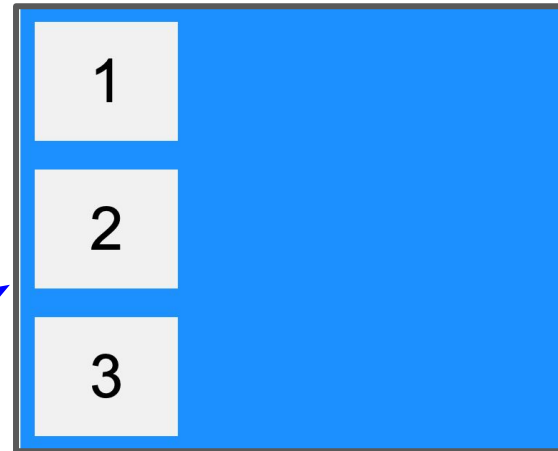


FLEXBOX DIRECTION

A flexbox container can arrange items in columns or rows.



Flexbox with `flex-direction: row`



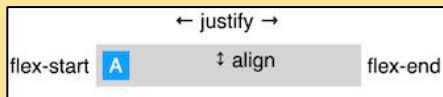
Flexbox with `flex-direction: column`

FLEXBOX CODE EXERCISE

- Specify Flexbox container:
 - `display: flex;`
- Direct **children** of container are **Flexbox items**.
- **Default flex-direction** is **row**

FLEXBOX CODE EXERCISE

- Use **justify-content** for alignment along the axis of the flow
- Use **align-items** for vertical alignment
- When **flex-direction** is **column**, this behavior is reversed.



FLEXBOX CODE EXERCISE

Some options for `justify-content`:

- `flex-start`
- `flex-end`
- `center`
- `space-between`
- `space-around`
- `space-evenly`

FLEXBOX CODE EXERCISE

Some options for `align-items`:

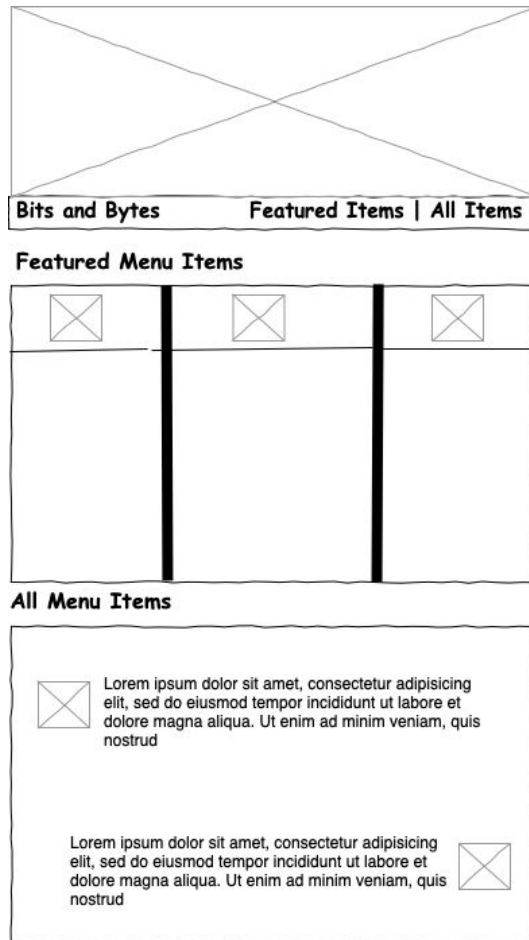
- `stretch`
- `flex-start`
- `flex-end`
- `center`

FLEXBOX CODE EXERCISE

To learn how to use CSS **Flexbox**, we will lay out a site for a restaurant.

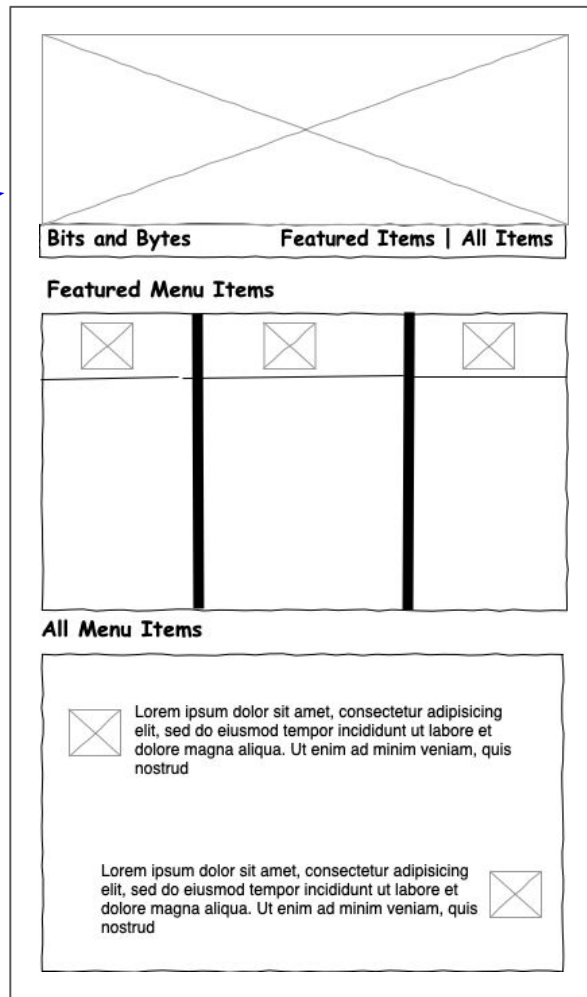
The diagram to the right is a **wireframe** of what we are aiming to build.

The HTML and styling info has been provided for us, but we will need to lay out the page.



FLEXBOX CODE EXERCISE

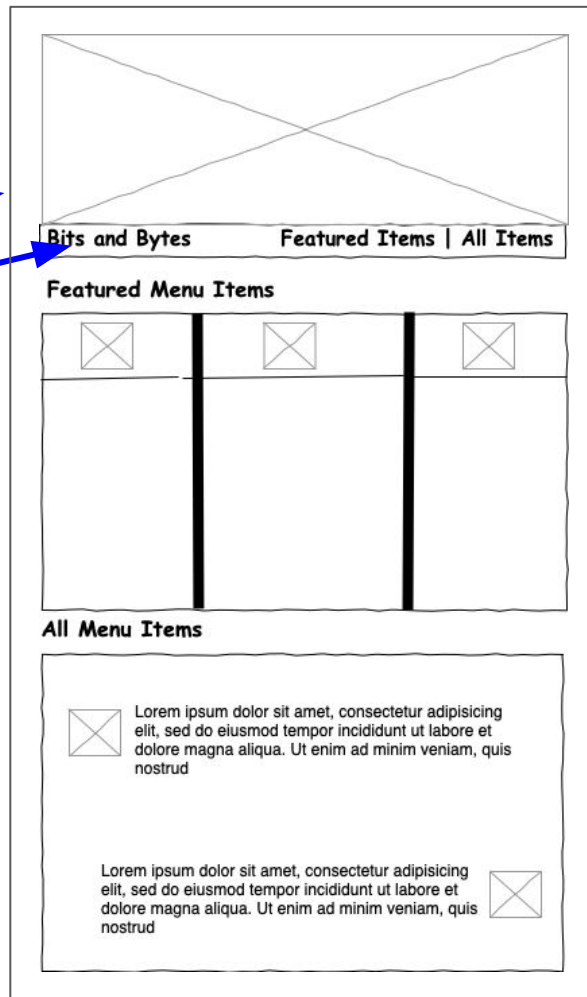
Container



FLEXBOX CODE EXERCISE

Container

Header image footer

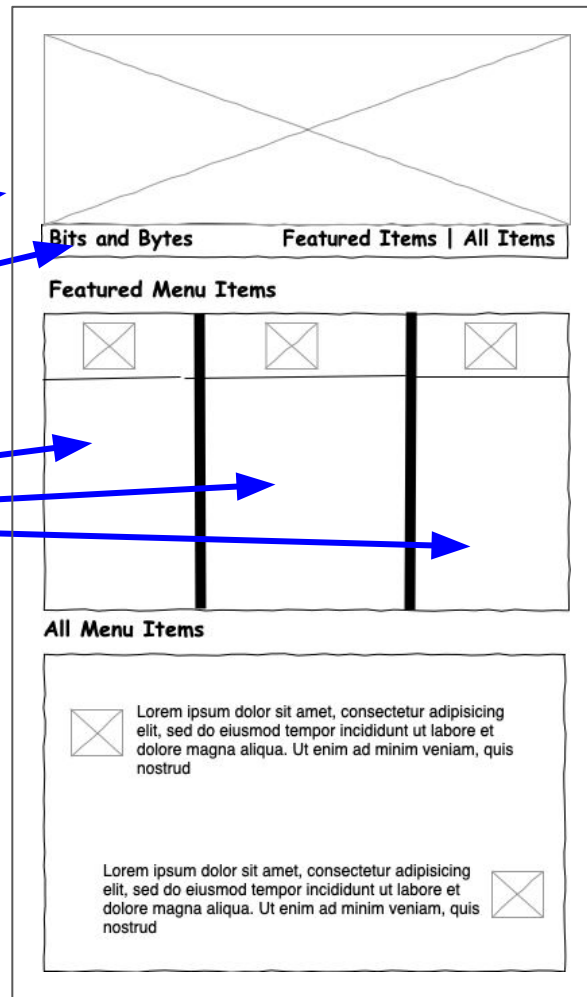


FLEXBOX CODE EXERCISE

Container

Header image footer

Featured section

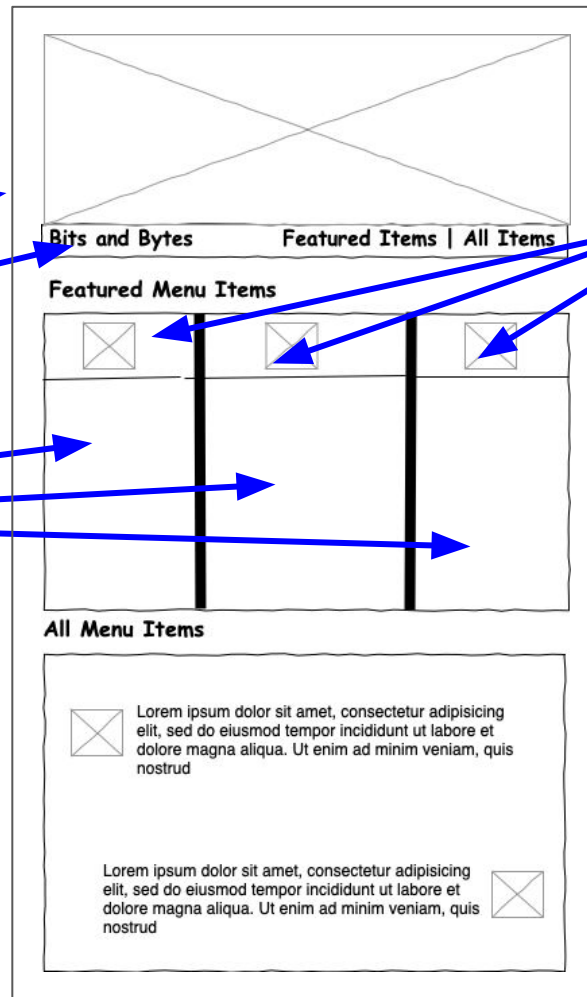


FLEXBOX CODE EXERCISE

Container

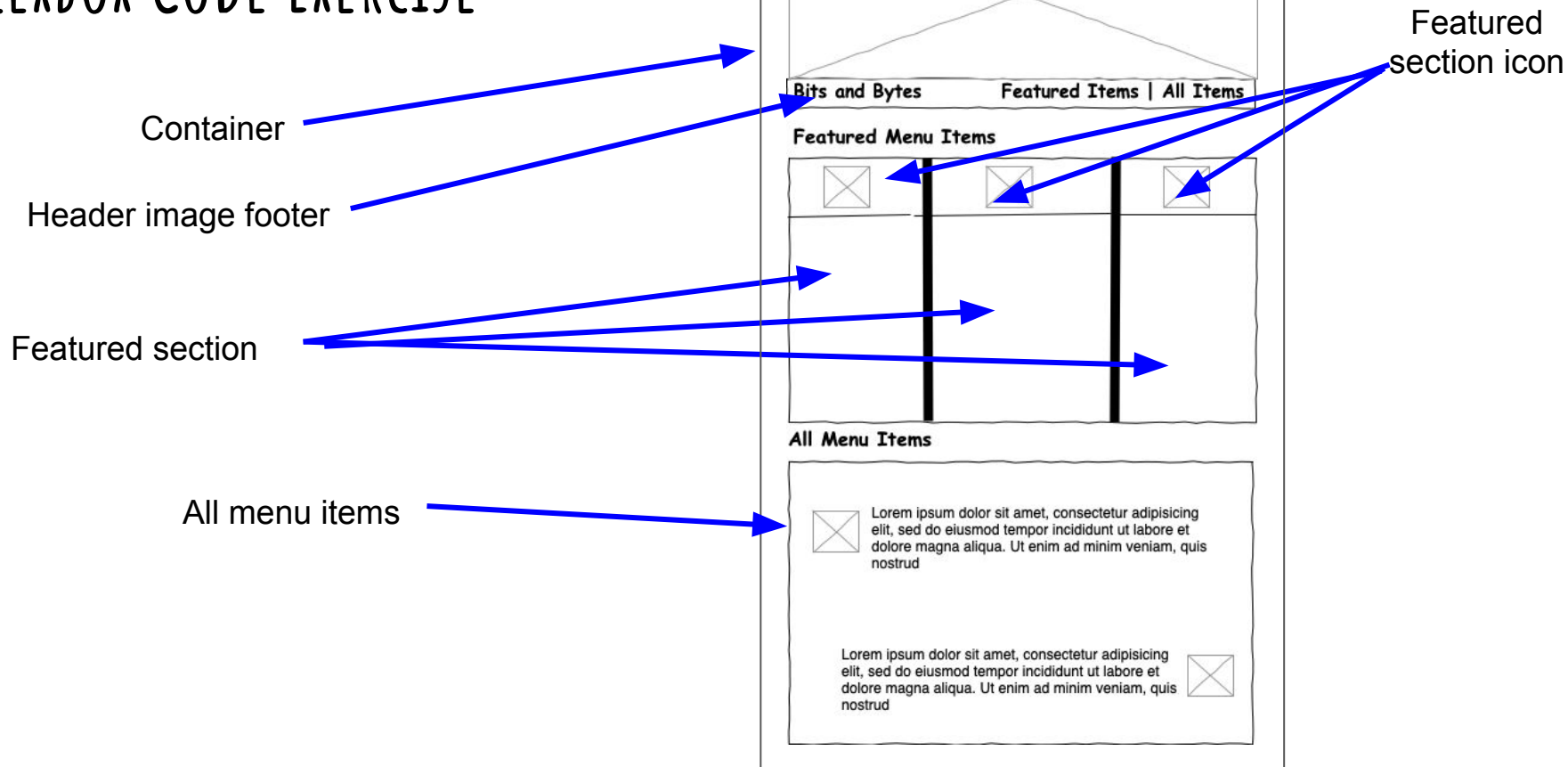
Header image footer

Featured section

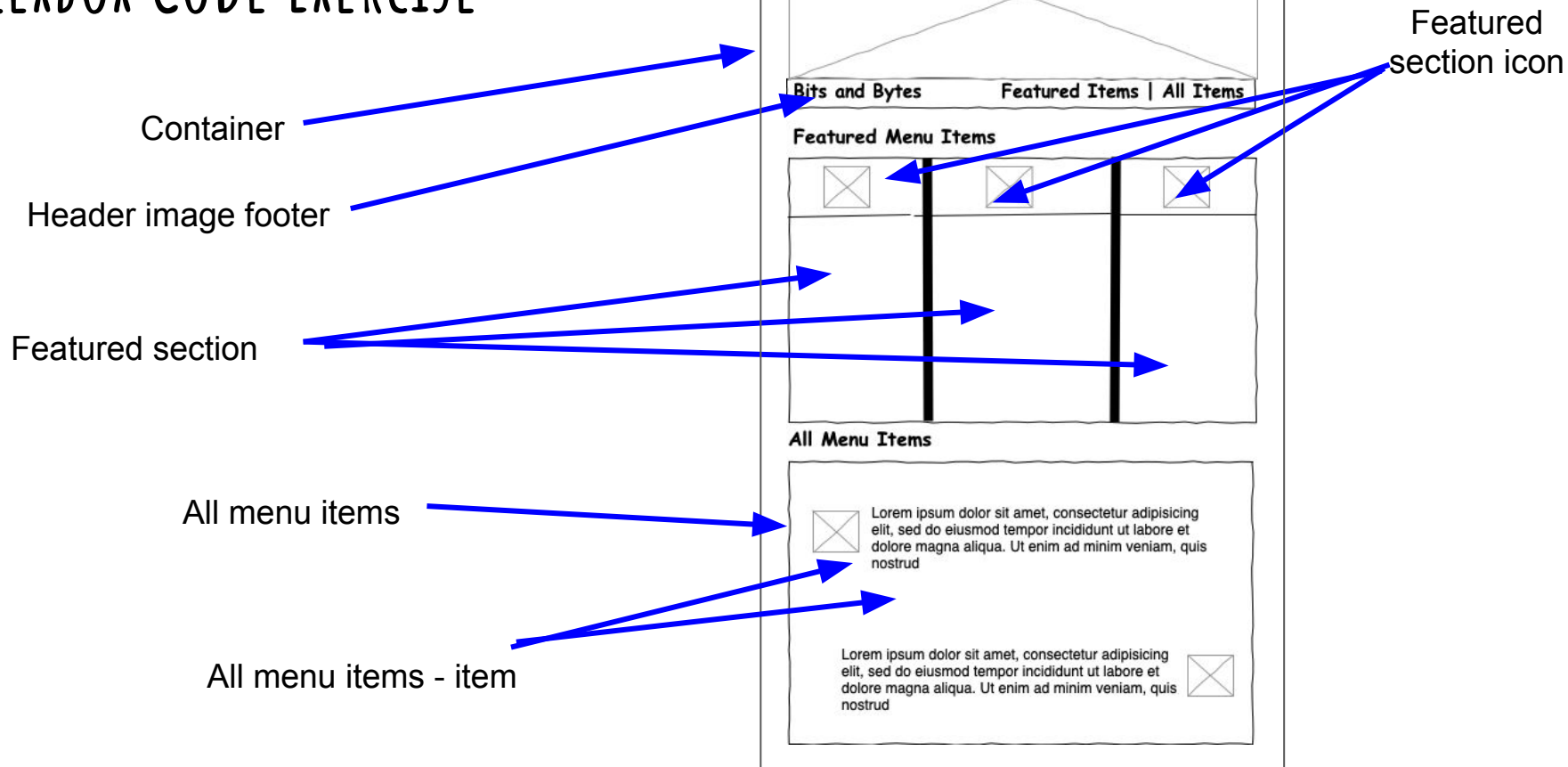


Featured
section icon

FLEXBOX CODE EXERCISE



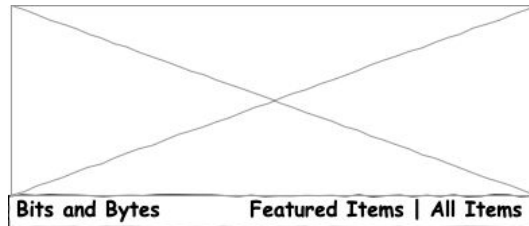
FLEXBOX CODE EXERCISE



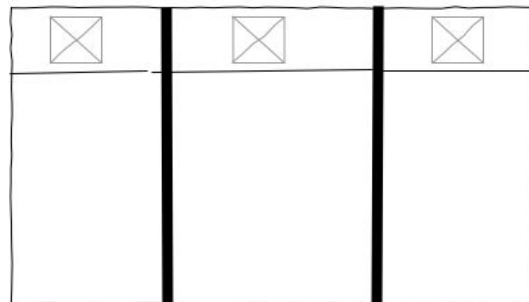
FLEX SHRINK / GROW / BASIS

FLEXBOX CODE EXERCISE

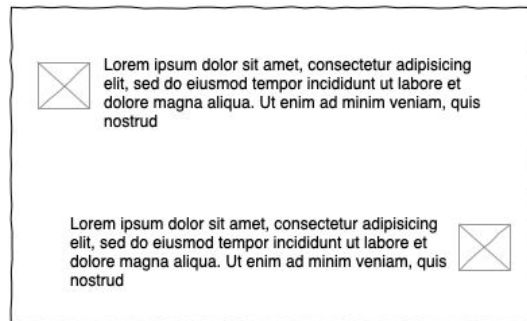
- **flex-grow**
 - Allows element to grow
 - 0 = false
 - 1 x = grow ratio
- **flex-shrink**
 - Allows element to shrink
 - 0 = false
 - 1 x = shrink ratio
- **flex-basis**
 - Defines the minimum (or ideal minimum) size of an element before the remaining space is distributed.



Featured Menu Items

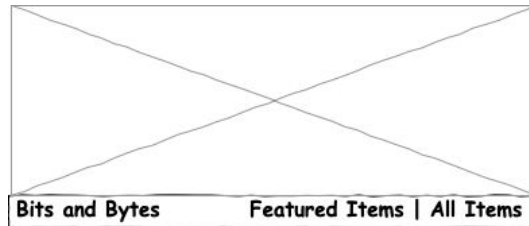


All Menu Items

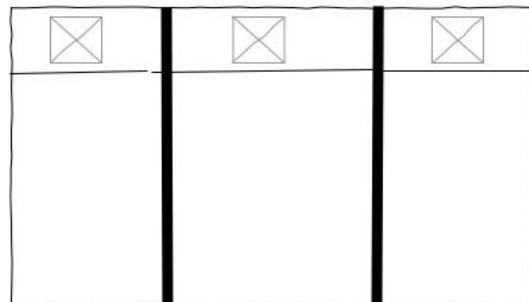


FLEXBOX CODE EXERCISE

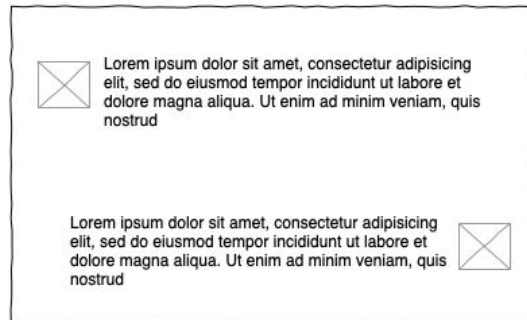
- **order**
 - Can specify **flex-item order** with numbers in this property
- **Row-reverse**
 - can be specified as **flex-direction**



Featured Menu Items



All Menu Items



FLEXBOX CODE EXERCISE

The last problem to address is the responsive nature of the layout.

As we drag the window's edge to make the viewport smaller, notice the center flexbox, **#featured**, stays in a three-column layout.

We need to have the layout adjust when the viewport gets below 1024px.

How can we achieve that?

