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Advanced Layouts with Flexbox

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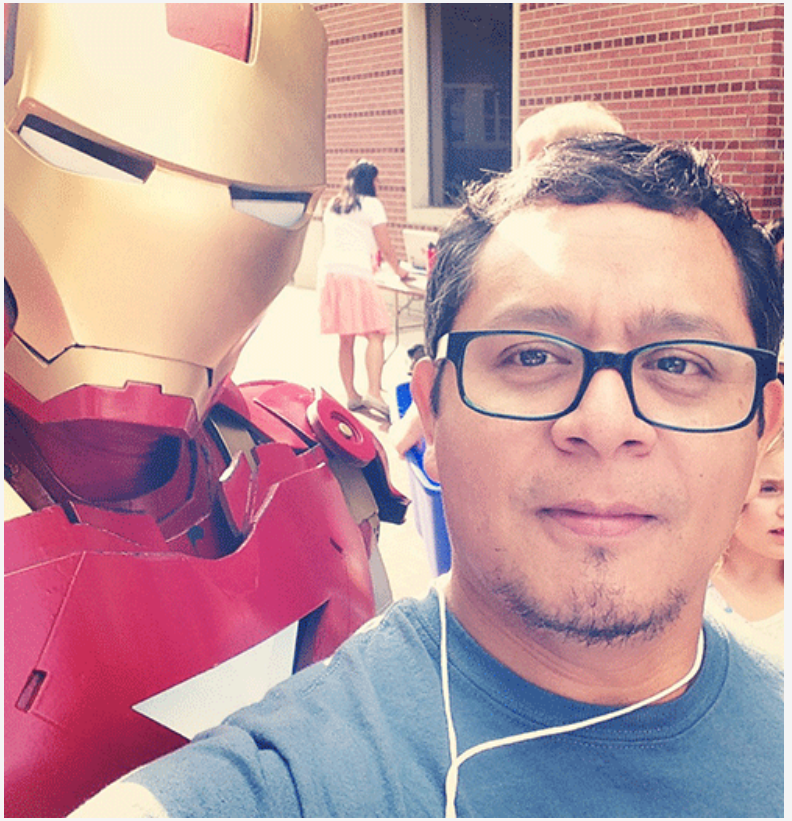
Mario Hernandez

Front-End Developer

@DesignsDrive



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We help organizations build highly impactful, elegantly designed **Drupal websites** that achieve the strategic results you need.

Digital Strategy

- Content Strategy
- Content Generation
- Result Metrics
- Marketing Automation Integration

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- Usability Testing
- Responsive Design
- Drupal Theming
- Annotated Wireframes

Development

- Drupal Support
- Custom Module Development
- Large Scale Systems Integration
- Security & Performance Expertise

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- What Are the Problems?
- The Flexbox Way
- So What is Flexbox?
- Browser Support
- Getting to Know Flexbox
- Practical Use Cases
- Fallbacks
- Resources

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What are the problems with float layouts?

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What are the problems with float layouts?

- Difficulty with containment

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- Difficulty with containment
- Source order dependent

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- Difficulty with containment
- Source order dependent
- Difficulty with equal-height columns

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What are the problems with float layouts?

- Difficulty with containment
- Source order dependent
- Difficulty with equal-height columns
- No float:center

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What are the problems with float layouts?

- Difficulty with containment
- Source order dependent
- Difficulty with equal-height columns
- No float:center
- No vertical center

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How does Flexbox solve these issues?

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The Flexbox Way

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The Flexbox Way

- Makes flex items grow to fill available space or shrink to avoid overflow

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The Flexbox Way

- Makes flex items grow to fill available space or shrink to avoid overflow
- Gives flex items proportional dimensions

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The Flexbox Way

- Makes flex items grow to fill available space or shrink to avoid overflow
- Gives flex items proportional dimensions
- Lays out flex items in any direction

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The Flexbox Way

- Makes flex items grow to fill available space or shrink to avoid overflow
- Gives flex items proportional dimensions
- Lays out flex items in any direction
- Places flex items in any order independently of HTML order

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What is Flexbox?

Flexbox is The New **Black**

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What is Flexbox?

The defining aspect of the flexbox is the ability to alter its items' width and/or height to best fill the available space on any display device.

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What is Flexbox?

The defining aspect of the flexbox is the ability to alter its items' width and/or height to best fill the available space on any display device.

A flex container expands items to fill available free space, or shrinks them to prevent overflow.

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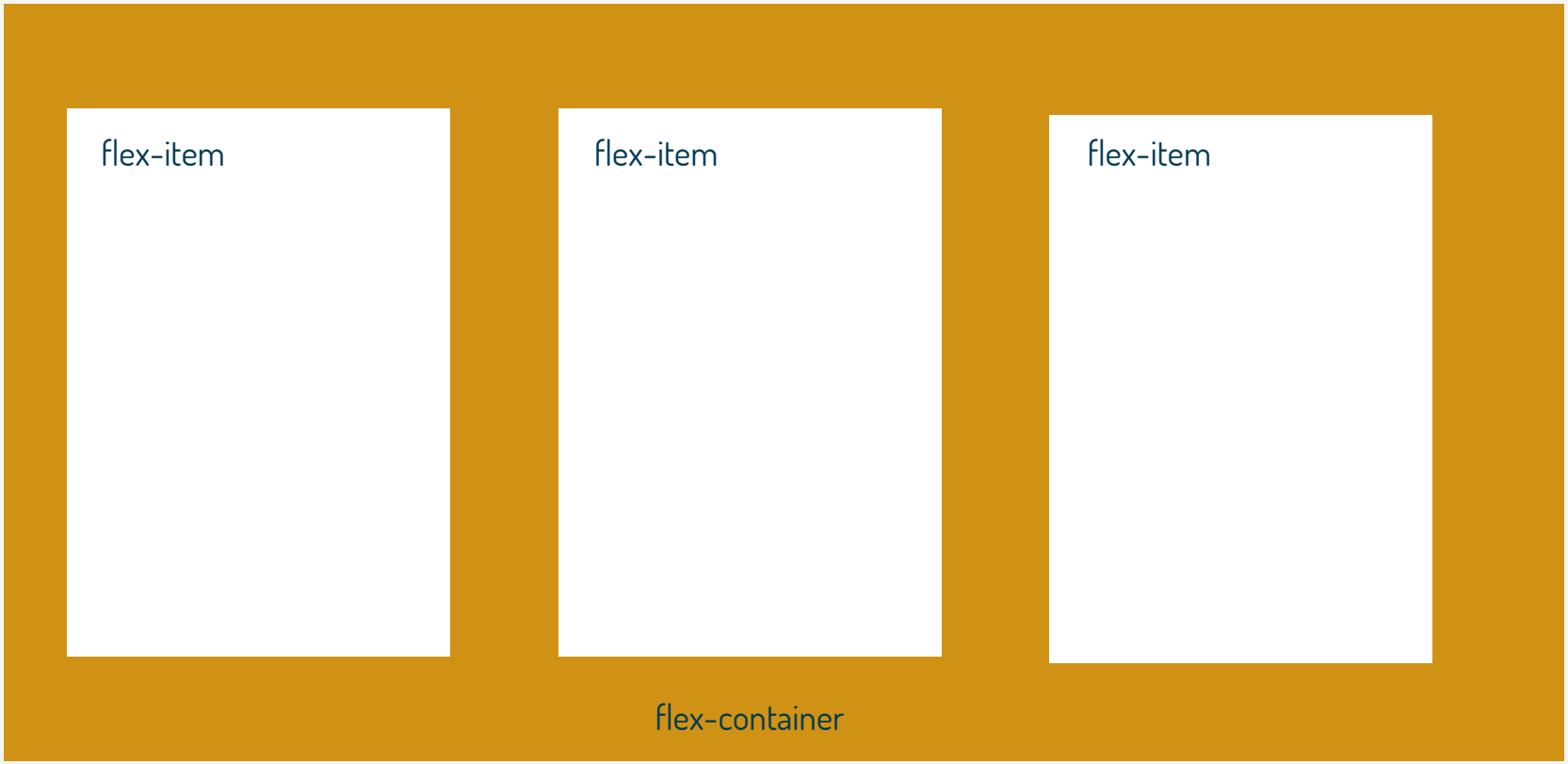
flex-item
flex-item
flex-item
flex-container

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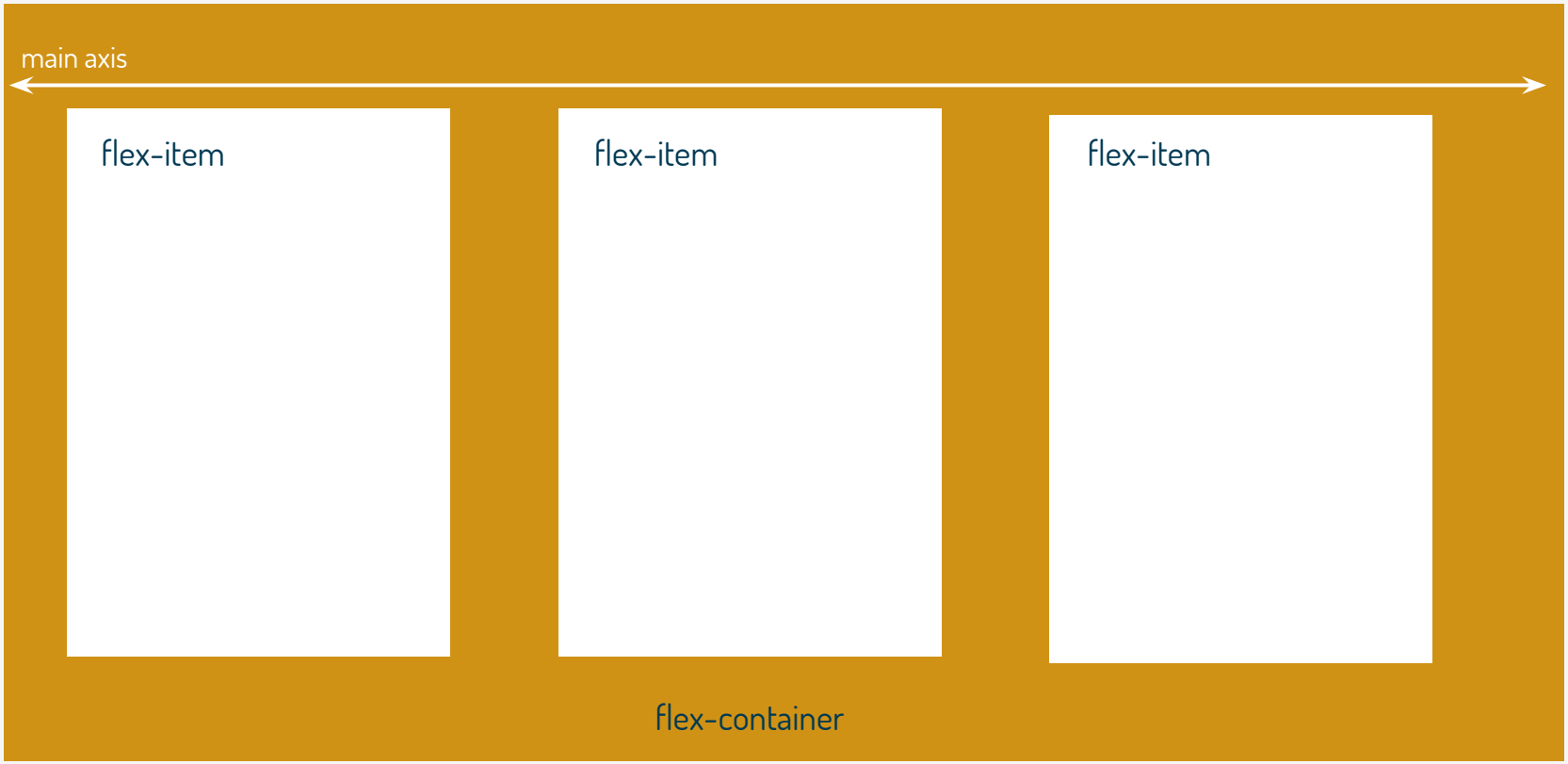

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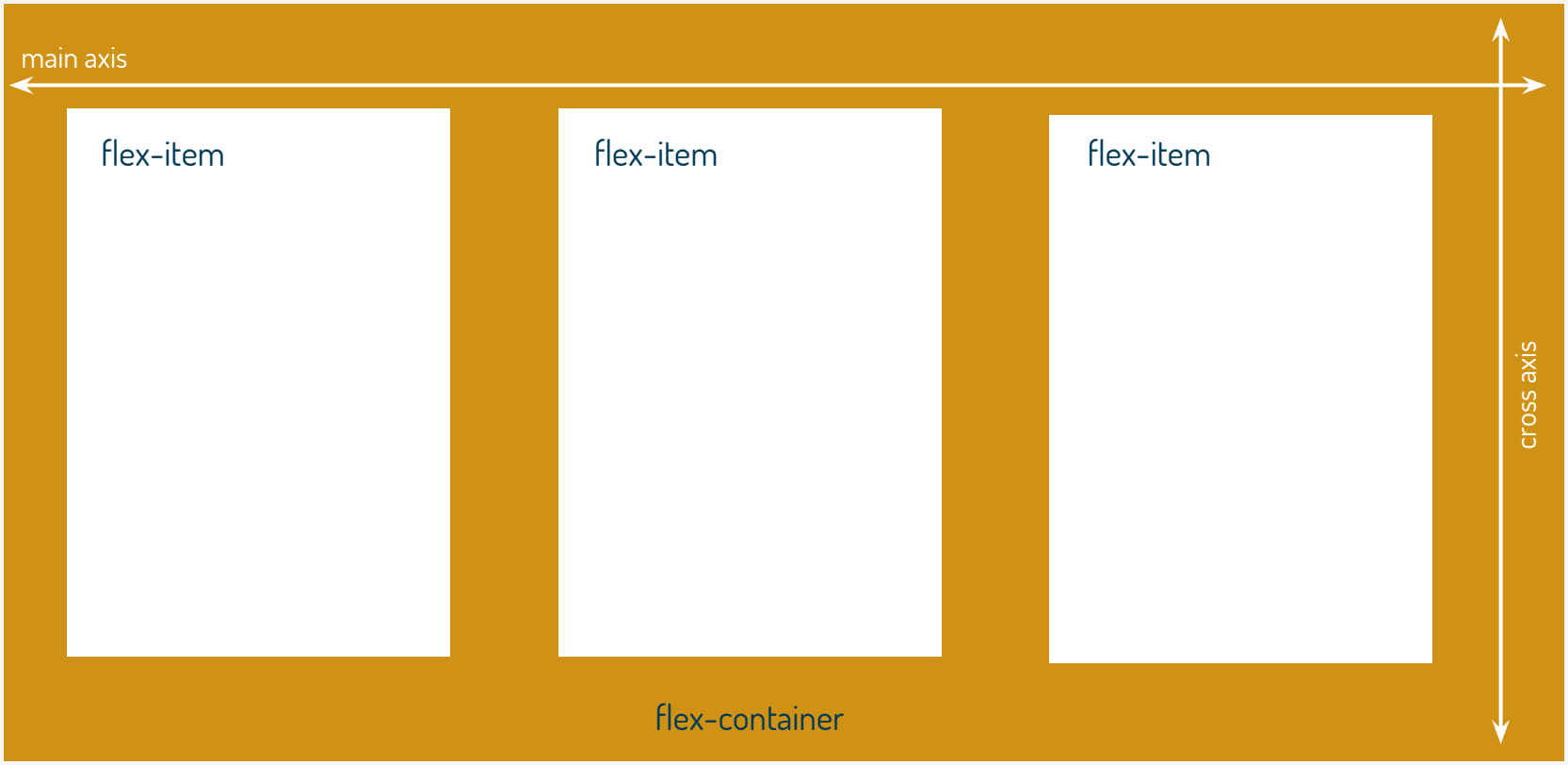

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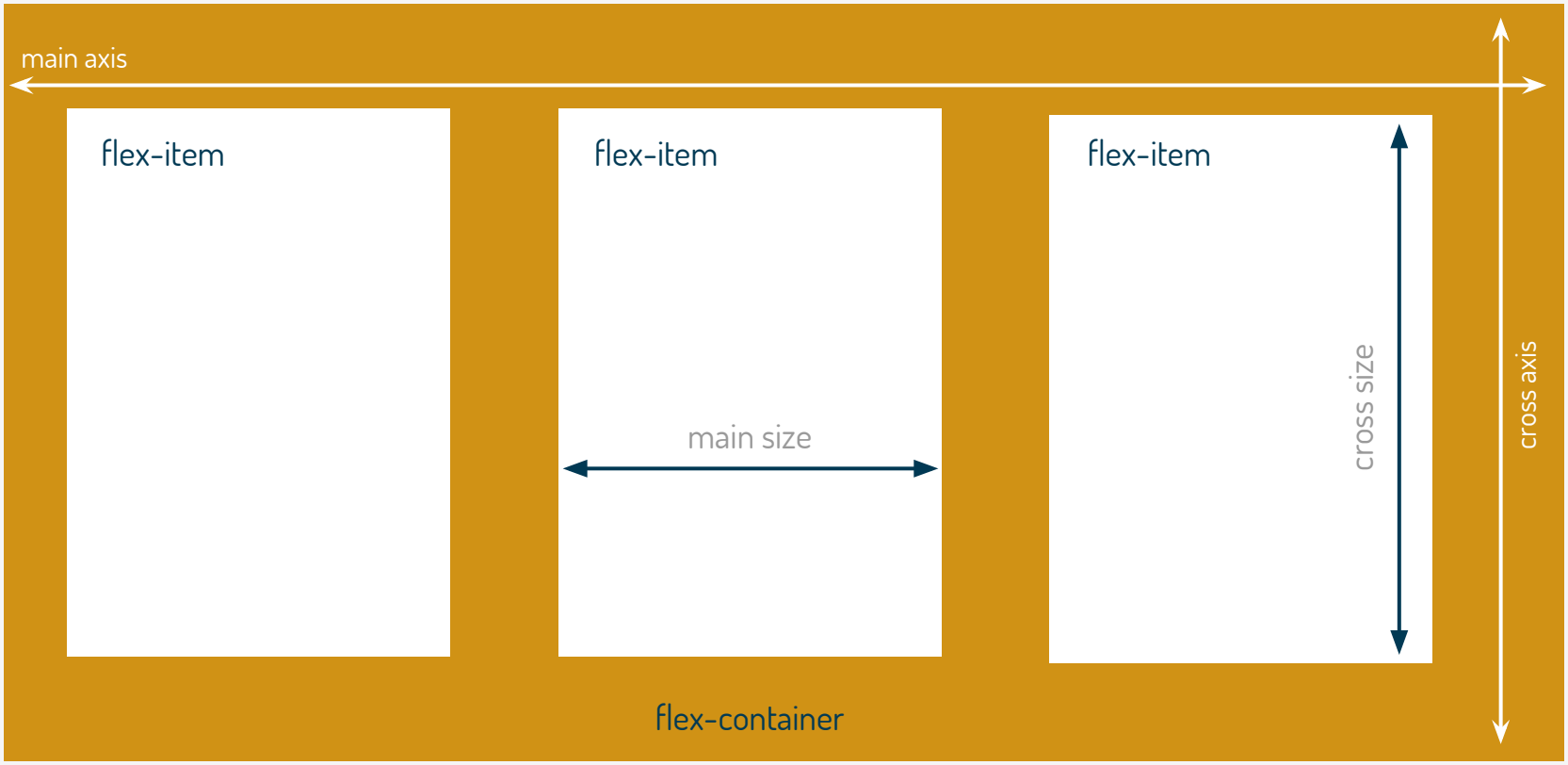

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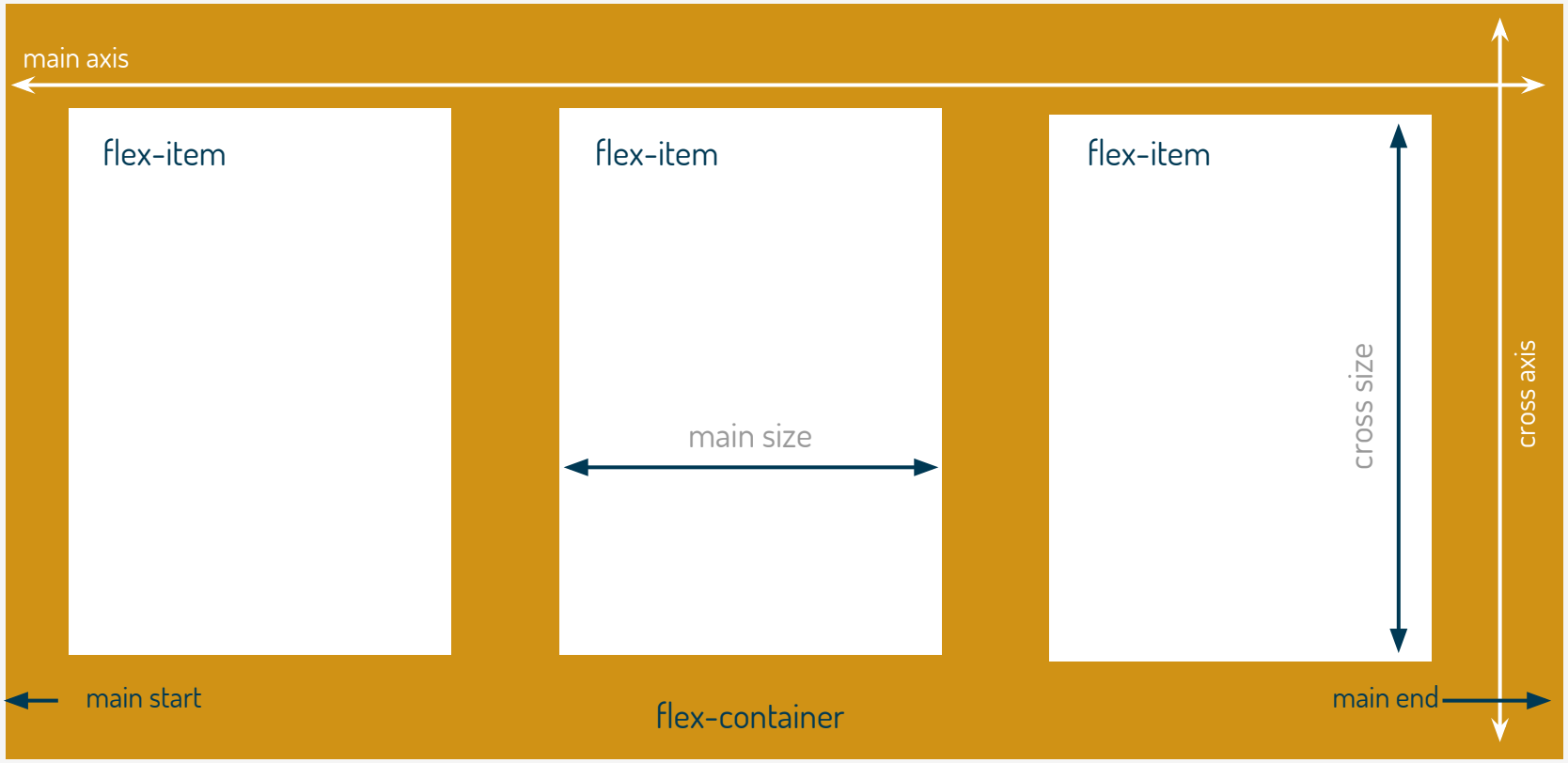

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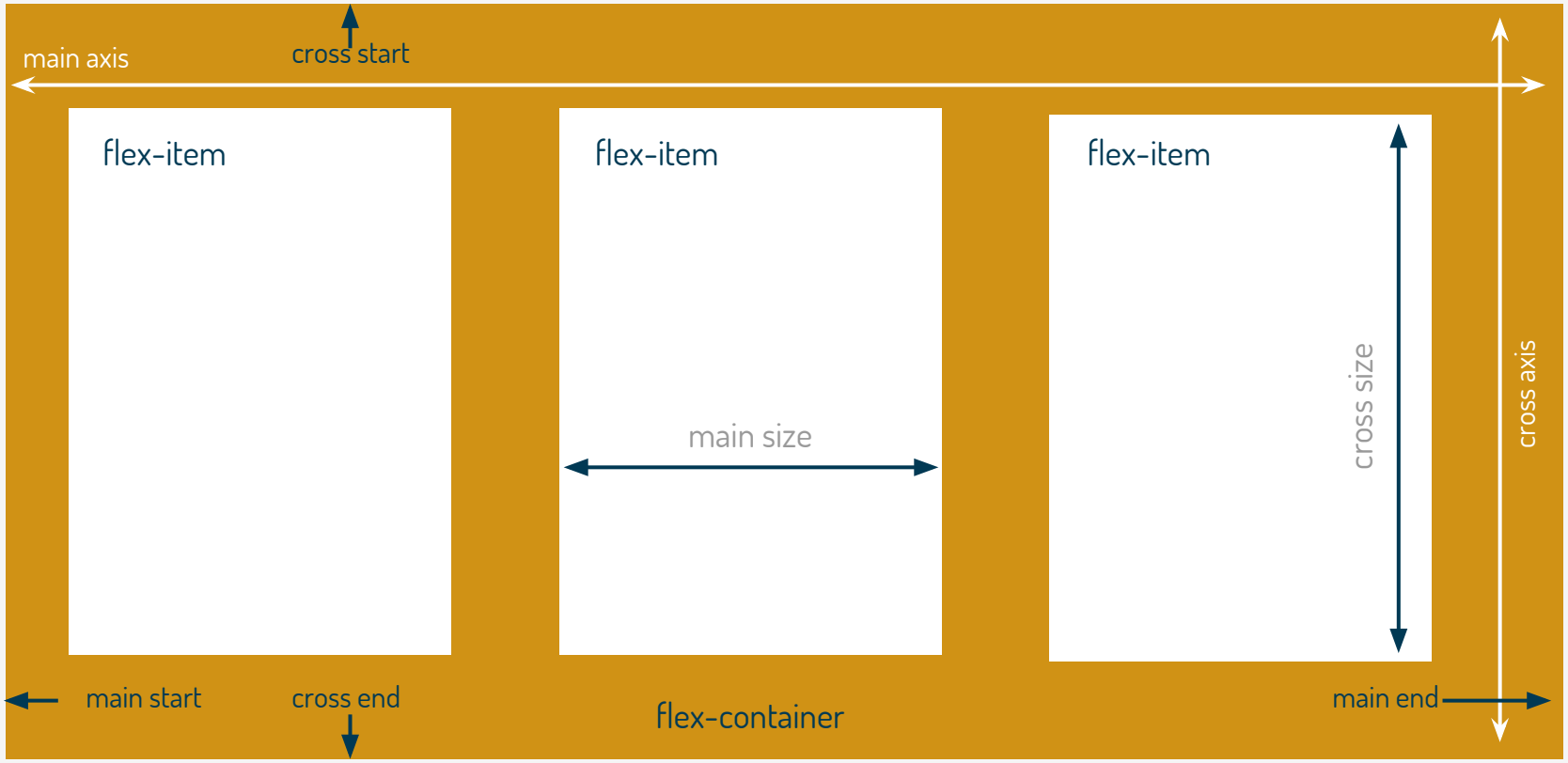

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Learning the Flexbox Properties

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Flexbox Properties

flex-direction

flex-wrap

flex-flow

justify-content

align-items

align-content

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Flexbox Properties

flex-direction

flex-wrap

flex-flow

justify-content

align-items

align-content

order

align-self

flex-grow

flex-shrink

flex-basis

flex

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Flexbox Properties

flex container	flex item
flex-direction	order
flex-wrap	align-self
flex-flow	flex-grow
justify-content	flex-shrink
align-items	flex-basis
align-content	flex

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Usage

To use flexbox layout just set the `display` property on the parent HTML element:

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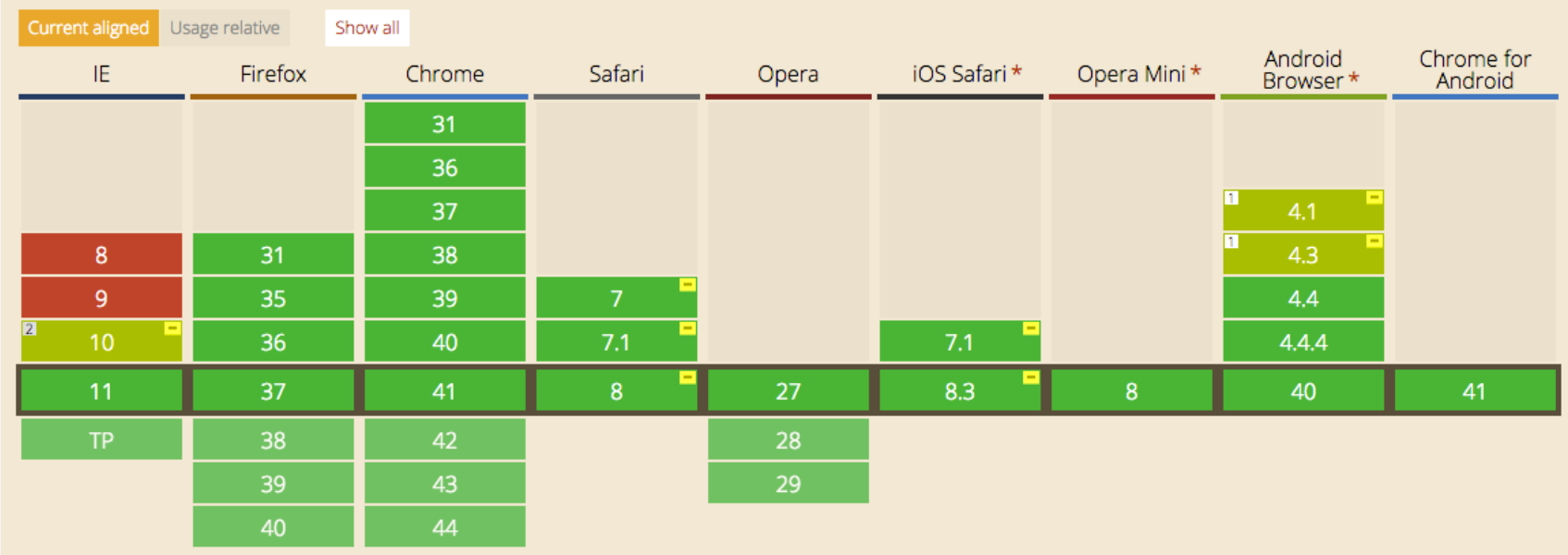
Usage

To use flexbox layout just set the `display` property on the parent HTML element:

```
.flex-container {
  display: flex;
}
```

Browser Support



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Vendor Prefixes

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```
.container {
  display: -webkit-box;
  display: -webkit-flex;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-pack: justify;
  -webkit-justify-content: space-between;
  -ms-flex-pack: justify;
  justify-content: space-between;
  -webkit-box-align: center;
  -webkit-align-items: center;
  -ms-flex-align: center;
  align-items: center;
  -webkit-flex-wrap: wrap;
  -ms-flex-wrap: wrap;
  flex-wrap: wrap;
}
```

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Autoprefixer

```
.flex-container {
  display: flex;
  justify-content: space-between;
  align-items: center;
  flex-wrap: wrap;
}
```

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Fallbacks

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Fallbacks

```
<!doctype html>
<!--[if lt IE 7]><html class="no-js lt-ie9 lt-ie8 lt-ie7" lang=""> <![endif]-->
<!--[if IE 7]><html class="no-js lt-ie9 lt-ie8" lang=""> <![endif]-->
<!--[if IE 8]><html class="no-js lt-ie9" lang=""> <![endif]-->
<!--[if gt IE 8]><!--> <html class="no-js" lang=""> <!--<![endif]-->
<!--[if lte IE 9]><!--><html class="no-js no-flexbox" lang=""> <!--<![endif]-->
    <head>
```

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Fallbacks

```
.flex-container {
  display: flex;
  justify-content: space-between;
  align-items: center;
  flex-wrap: wrap;
}

.no-flexbox .flex-container .flex-item {
  display: block;
  float: left;
}
```

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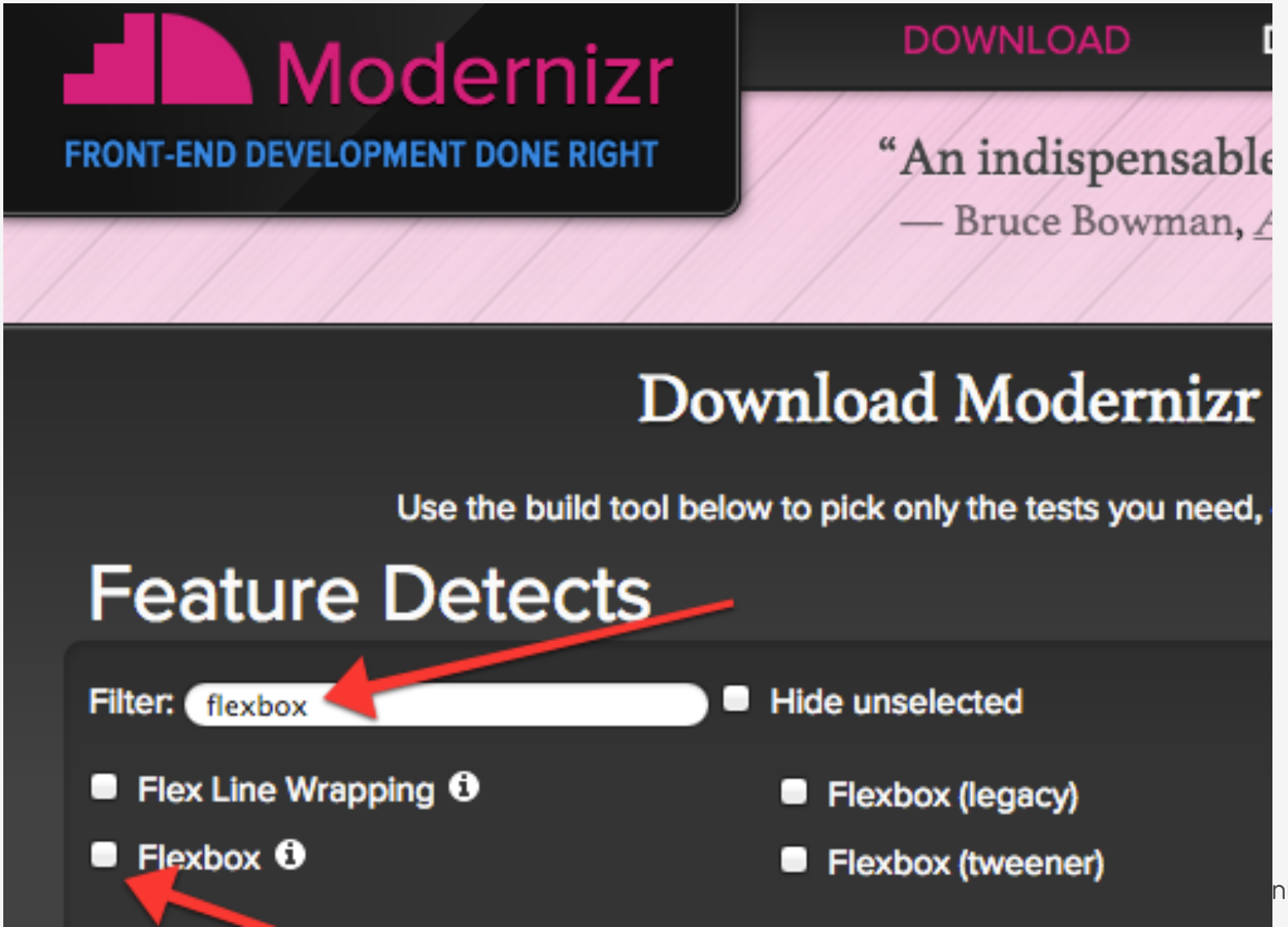
Fallbacks



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Fallbacks

```
.flexbox flex-container {
  display: flex;
  justify-content: space-between;
  align-items: center;
  flex-wrap: wrap;
}

.flex-container .flex-item {
  display: block;
  float: left;
}
```

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Demo

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Resources

- A Complete Guide to Flexbox
- A Visual Guide to CSS3 Flexbox Properties
- S a s s Flexbox mixins
- Flexbox practical examples (video)
- Flexbox tutorial (video)
- Flexbugs - curated list of flexbox issues and how to get around them (github)

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Thank You!

Questions?

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