

# HTML: Nesting & Blocks



Correct & incorrect nesting.  
Block & inline elements and  
line breaks

# Some Key Concepts

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- **Nesting** of elements - specifically correct and incorrect nesting.
- **block** and **inline** elements



# Agenda

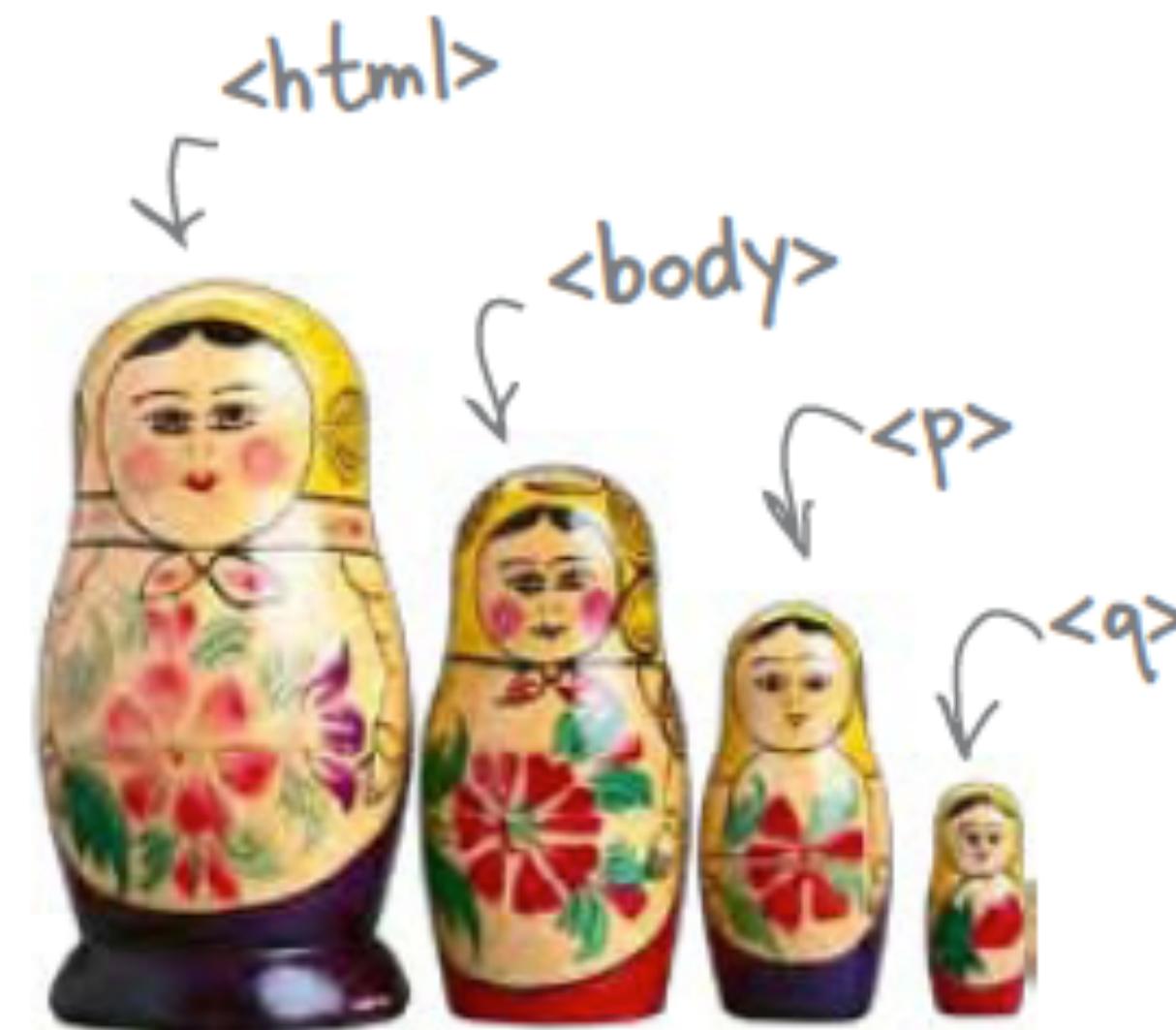
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- Nesting
- Line break, Block & Inline Elements

# Nesting

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- When we put one element inside another element, we call that nesting.
- We say, the `<p>`element is nested inside the `<body>`element.
- We put a `<body>`element inside an `<html>`element, a `<p>`element inside a `<body>`element etc.

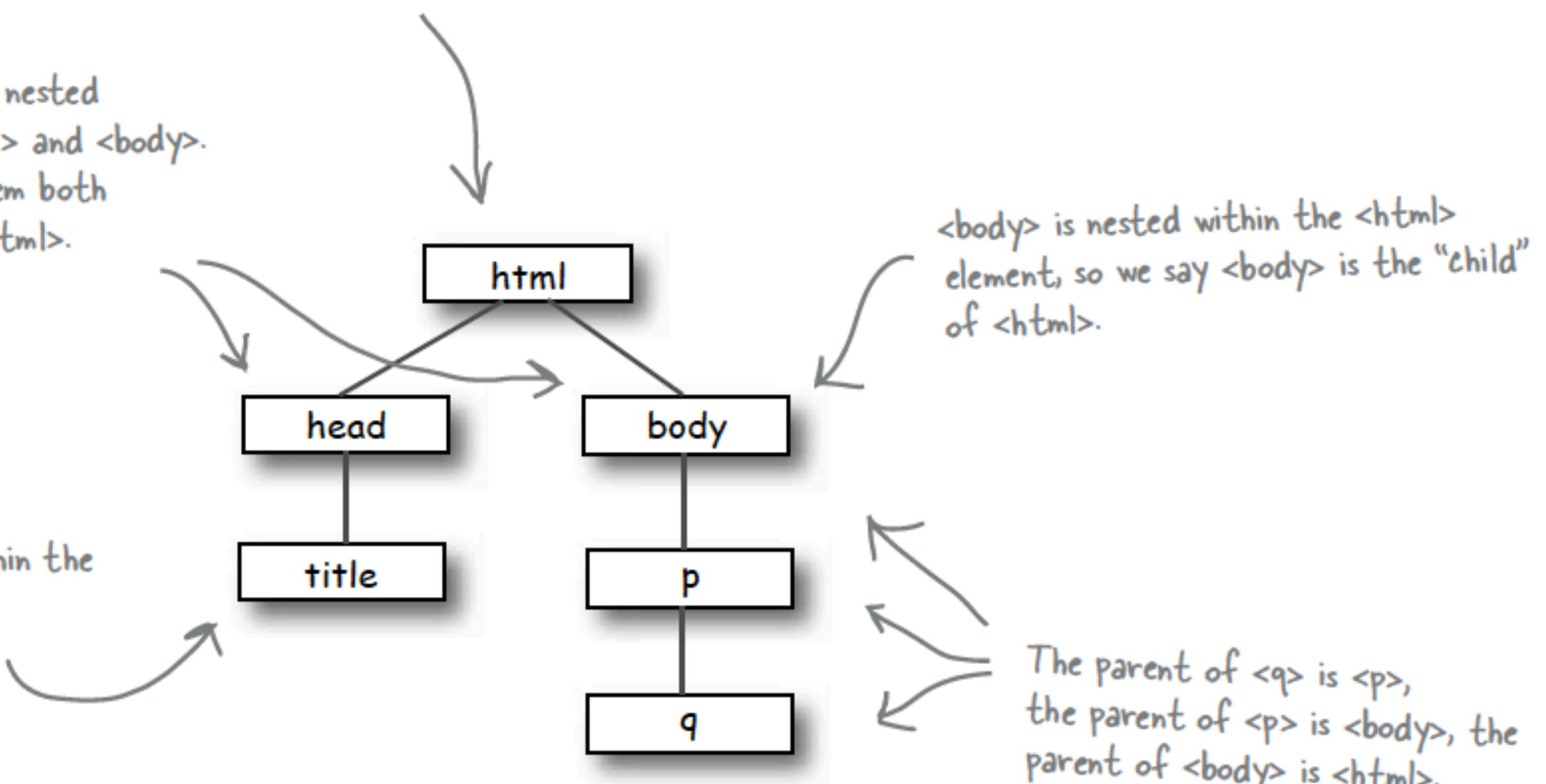


```
<html>
  <head>
    <title>Musings</title>
  </head>
  <body>
    <p>
      To quote Buckaroo,
      <q>The only reason
        for time is so
        that everything
        doesn't happen
        at once.</q>
    </p>
  </body>
</html>
```

# Nesting - Tree Structure

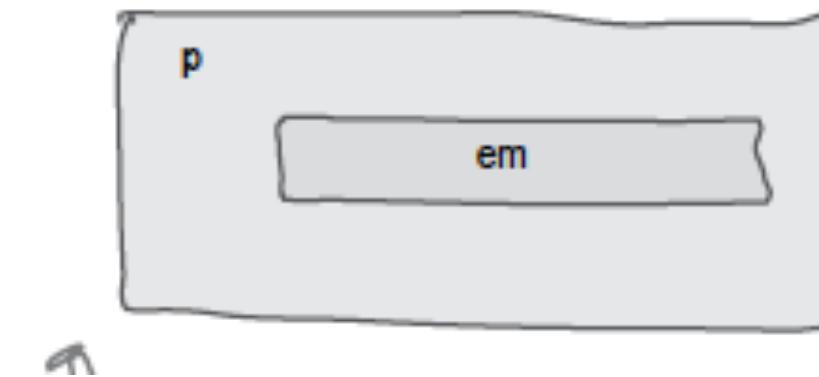
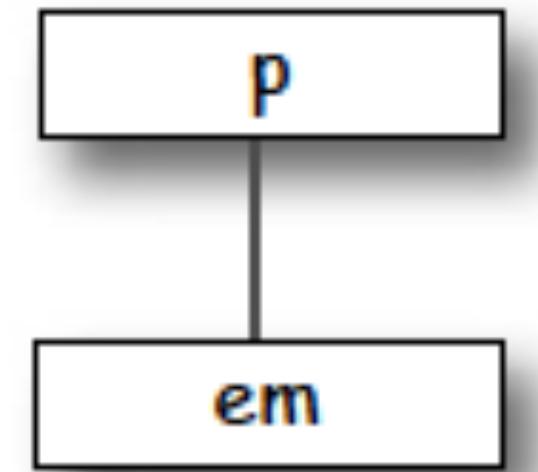
`<html>` is always the element at the root of the tree.

`>` has two nested elements: `<head>` and `<body>`. You can call them both "children" of `<html>`.



# Nesting can be Incorrect!

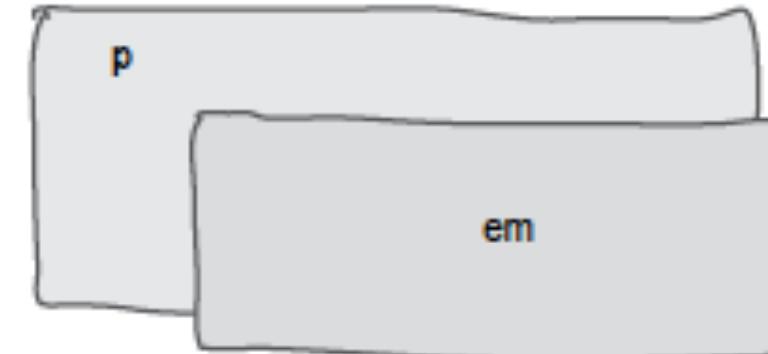
```
<p>I'm so going to blog <em>this</em></p>
```



Good

```
<p>I'm so going to blog <em>this</p></em>
```

?



Bad

# Agenda

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- Nesting
- Line break, Block & Inline Elements

## Line breaks

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there are no  
**Dumb Questions**

**Q:** I think I know what a **linebreak** is; it's like hitting the carriage return on a typewriter or the Return key on a computer keyboard. Right?

**A:** Pretty much. A linebreak is literally a "break in the line," like this, and happens when you hit the Return key, or on some computers, the Enter key. You already know that linebreaks in HTML files don't show up visually when the browser displays a page, right? But now you've also seen that anytime you use a **block element**, the browser uses linebreaks to separate each "block."



# Line Breaks

Here's the July  
14th snippet from  
Tony's page.

```
<h2>July 14, 2012</h2>
<p>
    I saw some Burma Shave style signs on the
    side of the road today:
</p>
<blockquote>
    Passing cars, <br>
    When you can't see, <br>
    May get you, <br>
    A glimpse, <br>
    Of eternity. <br>
</blockquote>
<p>
    I definitely won't be passing any cars.
</p>
```

Add a `<br>` element to any line  
when you want to break the  
flow and insert a "linebreak."

# Line Breaks

Each line now has a  
linebreak after it.

Chance, CO, Why, AZ and Truth or Consequences, NM.

**July 14, 2012**

I saw some Burma Shave style signs on the side of the road today:

Passing cars,  
When you can't see,  
May get you,  
A glimpse,  
Of eternity.



I definitely won't be passing any cars.

**June 2, 2012**



# Line Breaks

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- Break: `<br> </br>`
- An Empty element: - sometimes shortened to:
  - `<br></br>`
- or just
  - `<br>`
- or
  - `<br />`

# Block vs Inline Elements

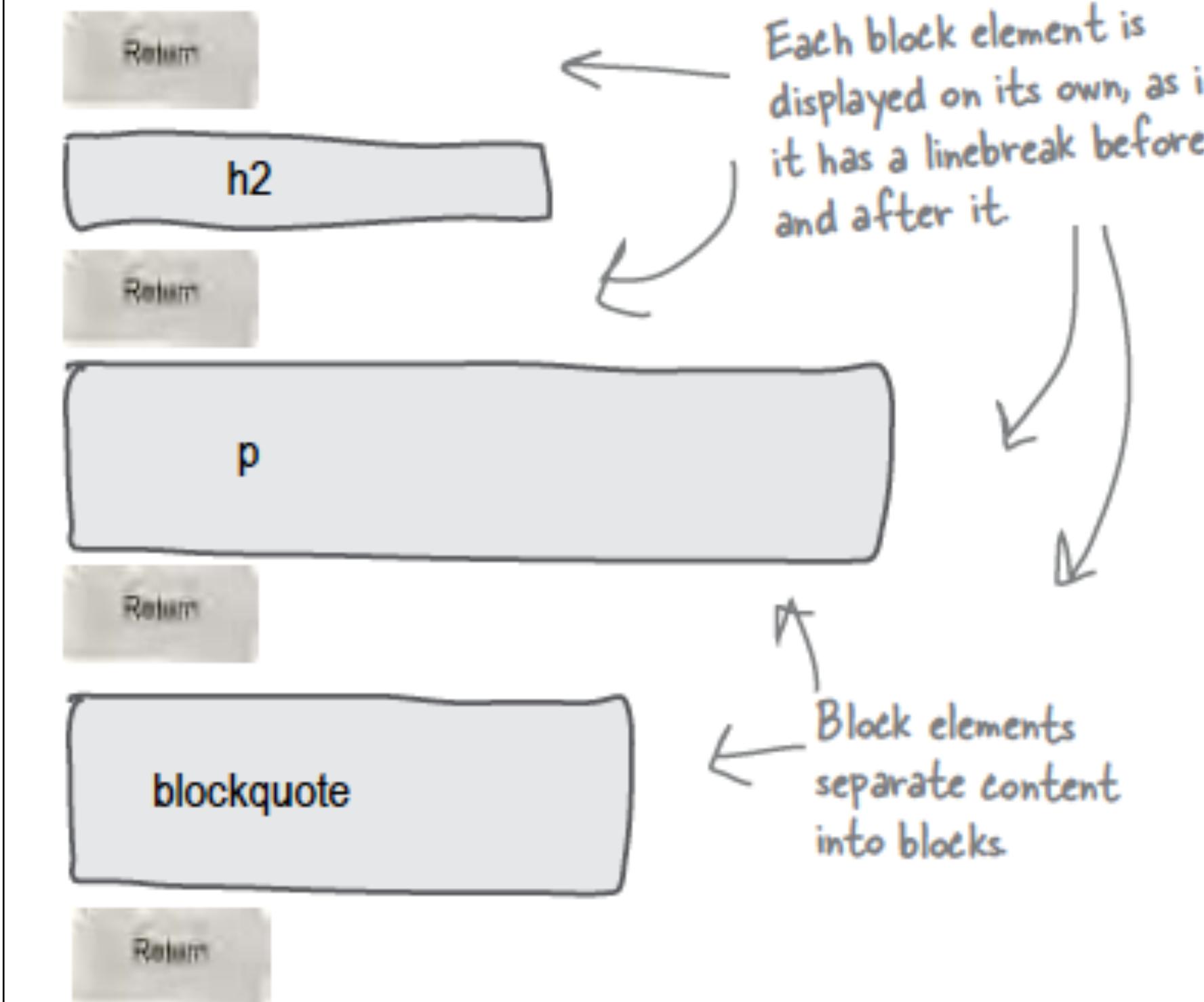
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- Block elements are always displayed as if they have a line break before and after them
- inline elements appear “in line” within the flow of the text in your page.

“Block elements stand on their own; inline elements go with the flow.”

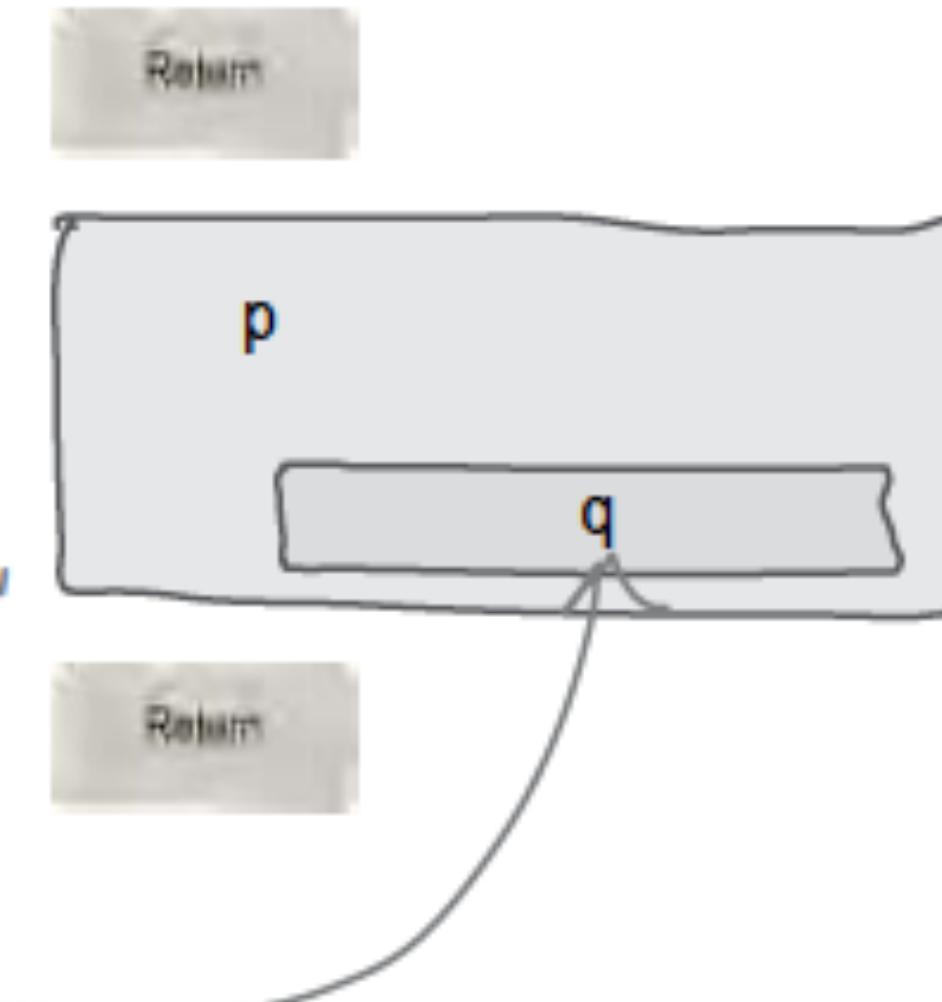
# Examples

- Block - h1, h2, p, blockquote



- Inline - a, em, q

<q> on the other hand, like all inline elements, is just displayed in the flow of the paragraph it's in.



# Labs

## Steps

### Instructions for each step

Lab-01 HTML Structure  
Web Development

Current Week  
1

Web Development > 01: Introducing HTML > HTML Fundamentals > Lab-01 HTML Structure

Objectives  
Setup  
Project Setup  
Downloading Images  
**HTML pages**  
CSS  
Exercises

**HTML pages**

We are going to create a web site that is based on the Google Play site or the Apple app store. It will present apps, music, and movies to the user.

Choose New File from the File menu, to create another new file called `apps.html`

You should now have the following folder and file structure visible in Sublime:

**FOLDERS**

```
web-dev-prj
  bundle-store
    images
      banner.png
      ondesoft.jpg
      .gitignore
    apps.html
    index.html
    style.css
```

Make sure your sublime matches the above precisely.

Next you will write some html code into the two html files.

Copy and paste in the following code into each of the files in turn:

**index.html**

```
<!DOCTYPE HTML>
<html>
  <head>
    <title>Bundle APP Store</title>
  </head>
```

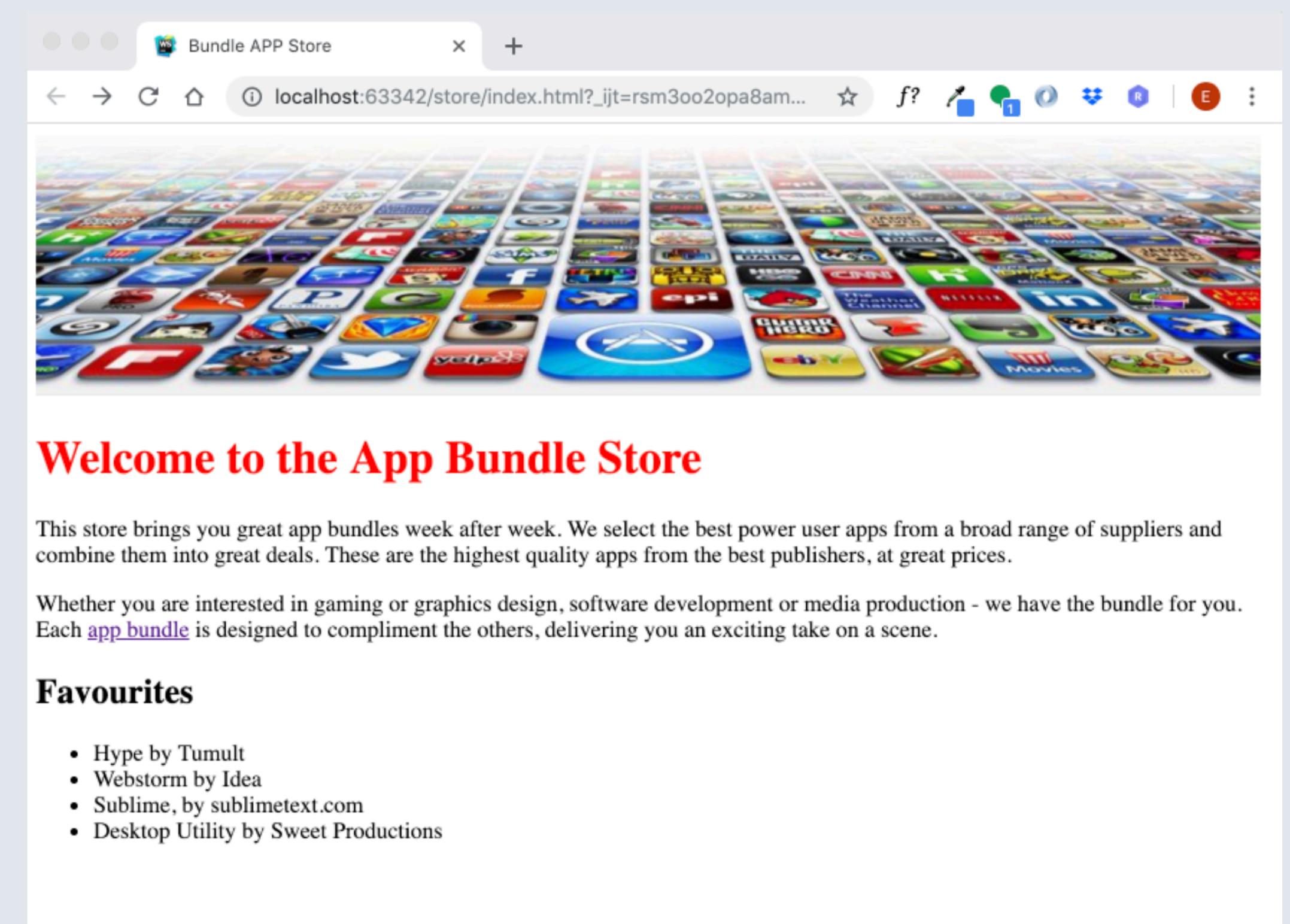
## Typical Lab Step:

- Screen shots to show outcome
- Some html to type
- More screen shots to show expected outcome
- Reflect as you go along

- Objectives
- Setup
- Project Setup
- Downloading Images
- HTML pages
- css**
- Exercises

```
h1 {  
    color: red;  
}
```

Save all your files. Refresh the index page in your browser and see the result of writing this one css rule.



The header is now red.

Remove the css rule you have just introduced and replace it with this one:

```
body {  
    font-family: sans-serif;  
}
```

Refresh the browser view - and verify visually that the font has changed. If you are finding it hard

## Objectives

### Setup

### Project Setup

### Downloading Images

### HTML pages

### CSS

### Exercises

# Exercises

- To assist on reflection and independent learning.
- Not essential you attempt all of them (yet)
- Select a few that interest you or that you have time to work on

# Exercises

## Solution So Far..

This is an archive (zip file) of a solution to the lab so far:

- <https://github.com/wit-hdip-comp-sci-2020/bundle-store/releases/tag/lab.01.end>

The exercises below can be attempted in any order. You may not have time to complete them all. They are intended to promote some experimentation on your part, and need not be submitted to the course web. If you have having issues - post on the slack "web-development" channel, or contact your tutors directly via Slack Direct Messaging.

### Exercise 1: Zip Archive

Download the "Source Code" from the above link. This is a zipped archive of the completed lab. See if you can uncompress (unzip) the archive. This can usually be accomplished just by double clicking it. The unzipped archive will be contained in a folder called "bundle-store". Now, relocate (drag/drop perhaps) this unzipped archive to somewhere else on your workstation. Perhaps consider creating a new folder called "solutions" inside the "web-development" folder, and place the solution in there.

Open the solution project, both in Sublime and a browser.

### Exercise 2: Index.html

Just to get used to the editor, create a few more new apps in the 'apps.html', perhaps you can locate content from some web source (including images). For instance here:

- <https://setapp.com/apps>

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