

# Layout

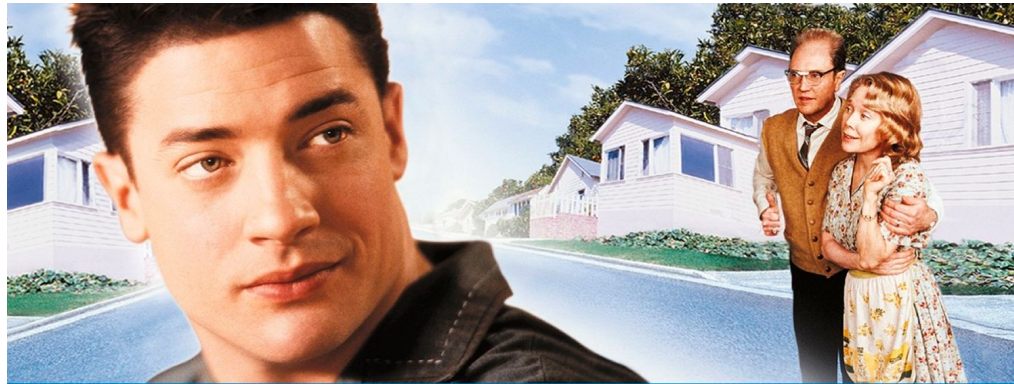
**...is hard**



But Layout!

**But... we can make it easy!**

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# *Blast from the Past*

*After 35 years in a bomb shelter, Adam Webber is finally going outside to play.*



# Box Model

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# Controlling Box Model - display

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```
/* <display-outside> values */
display: block;
display: inline;
display: run-in;

/* <display-inside> values */
display: flow;
display: flow-root;
display: table;
display: flex;
display: grid;
display: ruby;
display: subgrid;

/* <display-outside> plus <display-inside> values */
display: block flow;
display: inline table;
display: flex run-in;

/* <display-listitem> values */
display: list-item;
display: list-item block;
display: list-item inline;
display: list-item flow;
display: list-item flow-root;
display: list-item block flow;
display: list-item block flow-root;
display: flow list-item block;

/* <display-internal> values */
display: table-row-group;
display: table-header-group;
display: table-footer-group;
display: table-row;
display: table-cell;
display: table-column-group;
display: table-column;
display: table-caption;
display: ruby-base;
display: ruby-text;
display: ruby-base-container;
display: ruby-text-container;

/* <display-box> values */
display: contents;
display: none;

/* <display-legacy> values */
display: inline-block;
display: inline-table;
display: inline-flex;
display: inline-grid;

/* Global values */
display: inherit;
display: initial;
display: unset;
```

# Inline

- Multiple inline elements stay.. Welll.. In one line.
- They don't regard dimensional properties like `width`, `height`, `max-width`, `max-height` etc.
- `margin` applies only on horizontal directions
- `padding` applies everywhere.
- Example - `<span>` `<i>` `<b>` etc.
- Exception - `<img />`



# Inline Block

- Everything like inline but corresponds to dimensional properties.
- Example `<input>`, `<button>` etc.
- The Ghost Gap!

# Block

- Takes up the entire width of the parent.
- Examples - `<div>`, `<article>`, `<header>`

# Controlling Box Model - box-sizing

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Float!

Document is like  
a stretchable  
piece of cloth &  
putting elements  
on it, stretches it.

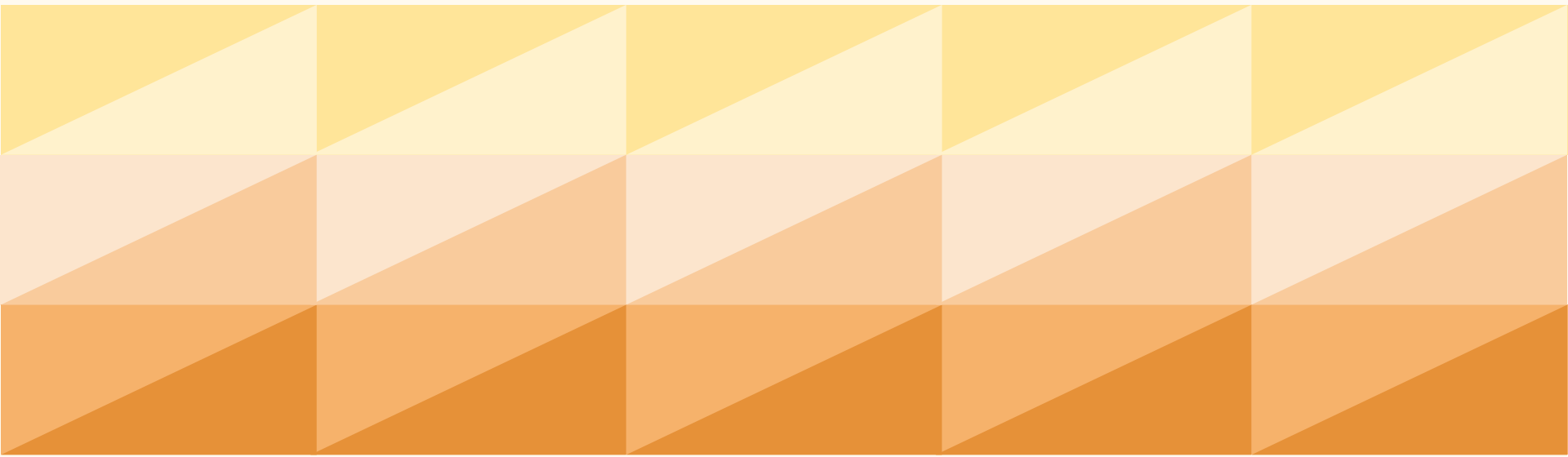
# Float

- Acts like it's not part of the normal document flow. Kind of like a small little world inside it's parent.
- Float left or right. No! There's no way to float at the center.
- Parent becomes clueless.
- The order changes.



Clearfix

**Old Times!**







# Tables – The First Take On Layouts

# Table Layouts

- Semantically Incorrect
- Lack of separation of concern
- Table has quirks of it's own.
- Nested tables are slow.
- Hard to modify the layout without messing around a lot with HTML.



Photo Gallery 1: Will Smith & Kevin Kline...Salma Hayek with Kevin Kline...



[© 1999 Warner Bros.](#) [photo credits](#)

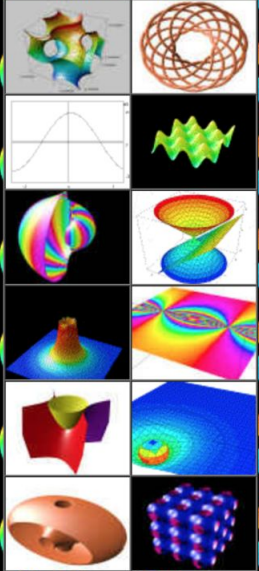


James T. West & Artemus Gordon...Artemus Gordon trapped...



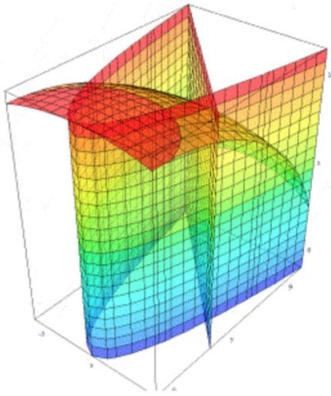
Salma Hayek as Rita

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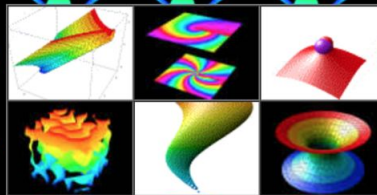
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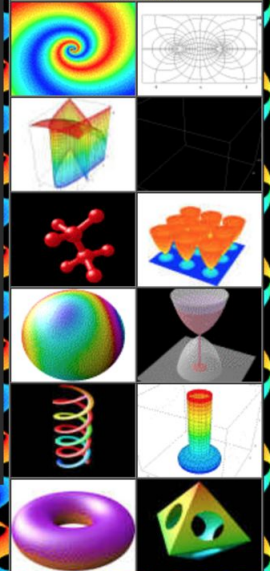
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★★★★★ "You'll be dazzled ...", ZDNet





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# Slightly Modern Times

# Things that happened

- Grid Systems
- 960 Grid System.
- Floats blew up as the most preferred way to do layouts even though it had problems.
- Frameworks like 960.gs, Bootstrap, Semantic, Foundation etc came along

# Why 960 though?

- Because monitors used to be 1024px x 768px.
- Even though monitor resolutions increased, it still served the purpose.
- It's a great number. Easily divisible by many smaller values.





# Ultra Modern Times

# Flexbox

The first proper way in CSS to build layouts

# Grid

The best ever layouting solution we ever had in CSS