CSS: positioning

## Processing flow

#### Reminders:

- to each node of the DOM tree is associated a "box"
- the browser (continuously) browses the DOM tree to calculate the display and positioning of nodes
- → "normal flow" of the browser
  Depth-first and left-to-right traversal
- CSS properties influence this processing flow
  - display, position, float

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- Display
- Position
- Float

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## **Display**

The property display defines the management mode of an element's box in the flow.

Several possible values: *none*, *block*, *inline*, *inline-block*, etc.

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#### None

- the box has zero size → the element is not displayed.
- different from property visibility with the value hidden: the element is hidden ("transparent") but its place is reserved. The descendants with visibility: visible are displayed.

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#### Block

## Type elements **block**

- may contain other elements block, inline or text
- have by default the width of their container (parent element)
- stack vertically on top of each other in normal flow order within their container force a line break in the text flow

### It **is possible** to fix their width and height.

 This is the default mode for flow elements, titles and sectioning.

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#### **Inline**

- Type elements inline can only contain other elements inline or text
- have by default a width and height defined by their content flow one after the other according to the natural text flow
- It is **not possible** to fix their width and height.
- This is the default mode for phrasing mode.

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#### Inline-Block

A "hybrid" mode.

- Type elements inline bloc may contain other elements block, inline or text
- have by default a width and height defined by their content flow one after the other according to the natural text flow
- It is possible to fix their width and height.

**Example** 

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## Relative positioning

The property position allows to act on the positioning of the boxes. By default, its value is *static*.

position: relative

allows to shift the position of the box with respect to its position assigned by the normal flow⇒ translation

- translation determined by properties left, top, right, bottom left:10px="add 10px left margin = right shift">
- other boxes are not influenced
- overlaps are possible(z-index property)

**Example** 

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## **Absolute positioning**

Position: absolute

- the box is withdrawn from normal flow
- its position is determined relative to the container: a
  parent positioned in absolute Or relative, the initial
  container (= element <body>) if none.
- margin shift determined by properties left, top, right, bottom

**Example** 

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## **Fixed positioning**

#### Position: fixed

- the box is withdrawn from normal flow
- its position is determined relative to the browser window
- margin shift determined by properties left, top, right, bottom
- the position in the page no longer depends on its position in the html code

**Example** 

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## Floating positioning

The property float allows you to create "floating" boxes. A floating box

- is removed from the normal flow
- is positioned on the left (float:left) or the right (float:right) of its container, the rest of the content is displayed by "flowing around"
- automatically acquires the property display: block
- · must have a width

Consecutive floating blocks are juxtaposed.

Example 1 Example 2

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## **Stop floating**

Clear

the property clear is used to prohibit floating on a block element.

The possible values are:

None floating allowed

Left floating prohibited on the left

**Right** floating prohibited on the right

**Both** floating prohibited on left and right

**Example** 

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