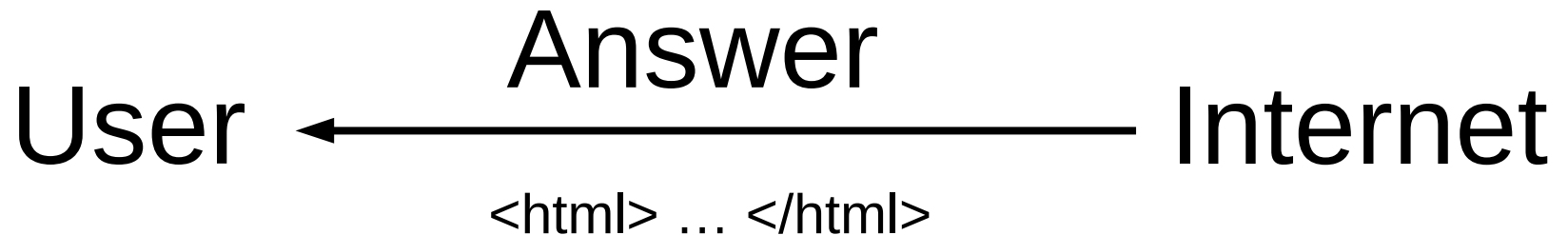


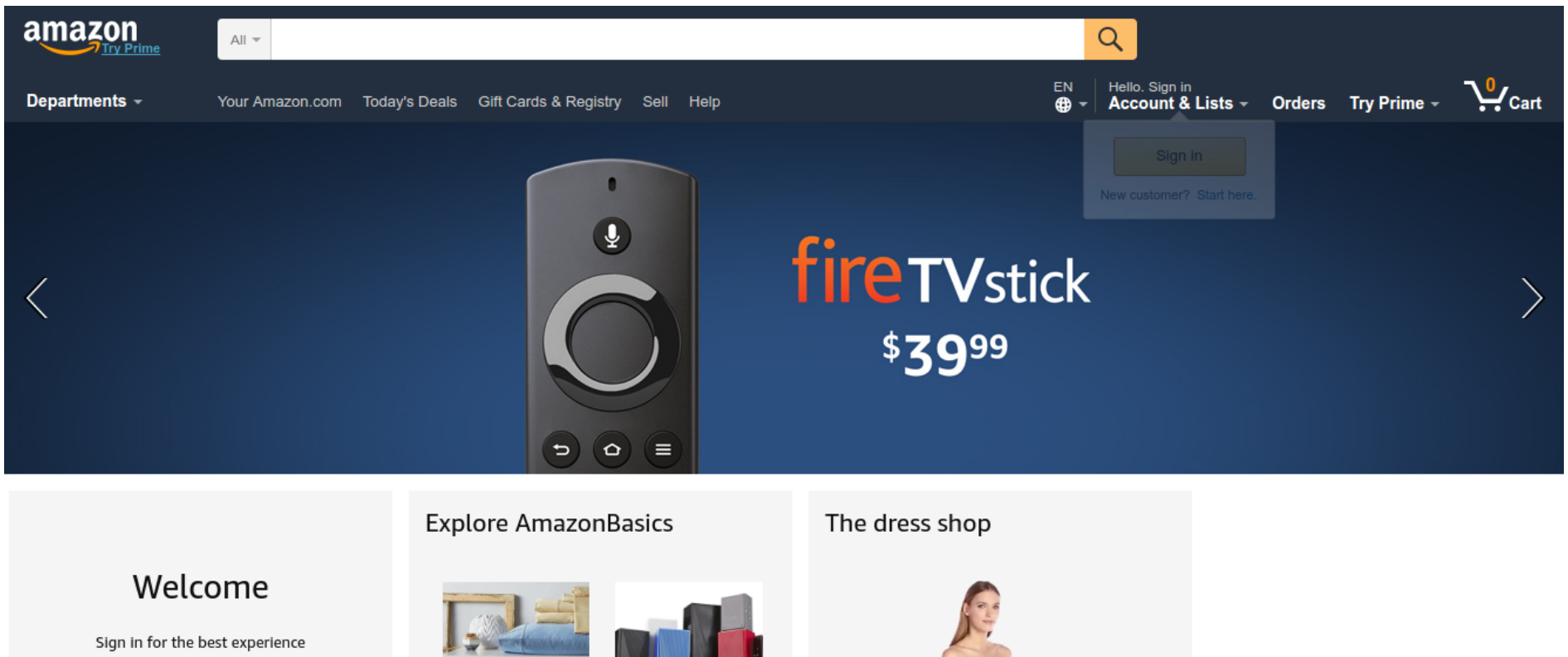
Javascript

Week 1

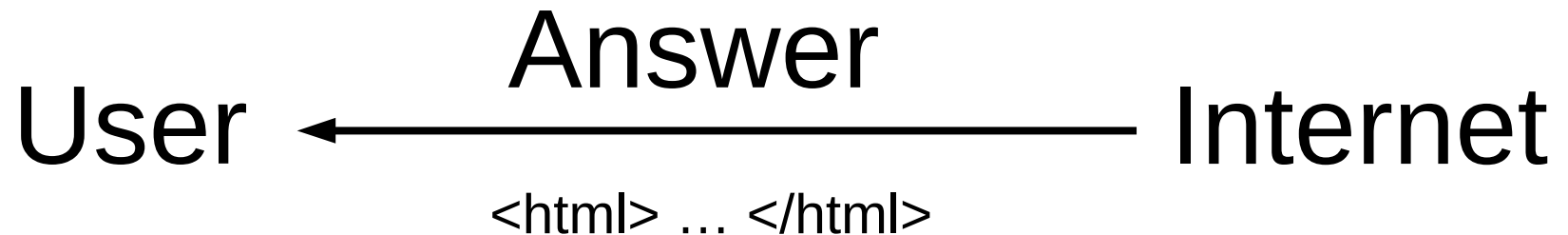
Introduction




Introduction




Introduction




Introduction



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Operating System

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Memory

Pentium

CPU

Javascript

```

1 <!doctype html><html class="a-no-js" data-19ax5a9jf="dingo"><head><script>var aPageStart = (new Date()).getTime();</script><meta charset="utf-8">
2 <script type="text/javascript">var ue_t0=ue_t0||+new Date();</script>
3 <script type="text/javascript">
4 var ue_csm = window,
5     ue_hob = +new Date();
6 (function(d){var e=d.ue=d.ue||{},f=Date.now||function(){return+new Date};e.d=function(b){return f()-(b?0:d.ue_t0)};e.stub=function(b,a){if(!b[a]){var c=
7 [],b[a]=function(){c.push([c.slice.call(arguments),e.d()]);b[a].replay=function(b){for(var
8 a;a=c.shift();){b(a[0],a[1],a[2])};b[a].isStub=1}};e.exec=function(b,a){return function(){if(1==window.ueinit)try{return b.apply(this,arguments)}catch(c){ueLogError(c,
9 {attribution:a||"undefined",logLevel:"WARN"})}}}(ue_csm);
10
11     var ue_err_chan = 'jserr-rw';
12 (function(d,e){function h(f,b){if(!(a.ec>a.mxe)&&f){a.ter.push(f);b=b||{};var
13 c=f.logLevel||b.logLevel;c&&c!=k&&c!=m&&c!=n&&c!=p||a.ec++;c&&c!=k||a.ecf++;b.pageURL=""+(e.location?
14 e.location.href:"");b.logLevel=c;b.attribution=f.attribution||b.attribution;a.erl.push({ex:f,info:b})}}function l(a,b,c,e,g)
15 {d.ueLogError({m:a,f:b,l:c,c:""+e,err:g,fromOnError:1,args:arguments},g?{attribution:g.attribution,logLevel:g.logLevel}:void 0);return!1}var
16 k="FATAL",m="ERROR",n="WARN",p="DOWNGRADED",a={ec:0,ecf:0,
17 pec:0,ts:0,erl:[],ter:[],mxe:50,startTimer:function(){a.ts++;setInterval(function()
18 {d.ue&&a.pec<a.ec&&d.ue("at");a.pec=a.ec},1E4)};l.skipTrace=1;h.skipTrace=1;h.isStub=1;d.ueLogError=h;d.ue_err=a;e.onerror=l})(ue_csm>window);
19
20 var ue_id = '4PHNPEHNWMQZ77ZRRTBE',
21     ue_url = '/mn/search/uedata/168-1181623-4517606',
22     ue_navtiming = 1,
23     ue_mid = 'ATVPDKIKX0DER',
24     ue_sid = '168-1181623-4517606',
25     ue_sn = 'www.amazon.com',
26     ue_furl = 'fls-na.amazon.com',
27     ue_surl = '//unagi-na.amazon.com/1/events/com.amazon.csm.nexusclient.prod',
28     ue_fcsn = 1,
29     ue_urt = 3,
30     ue_rpl_ns = 'cel-rpl',
31     ue_fpf = '//fls-na.amazon.com/1/batch/1/OP/ATVPDKIKX0DER:168-1181623-4517606:4PHNPEHNWMQZ77ZRRTBE$uedata=s:',
32
33     ue_swi = 1;
34 function ue_viz(){(function(c,e,a){function k(b){if(c.ue.viz.length<p&&!l){var a=b.type;b=b.originalEvent;/^focus./.test(a)&&b&&
35 (b.toElement||b.fromElement||b.relatedTarget)||[a=e[m]]||("blur"==a||"focusout"==a?"hidden":"visible"),c.ue.viz.push(a+": "+(+new Date-c.ue.t0)),"visible"==a&&
36 (ue.isl&&ue("at"),l=1))}}for(var l=0,f,g,m,n=["","webkit","o","ms","moz"],d=0,p=20,h<n.length&&d;h++){if(a=n[h],f=(a?+ "H": "h")+"idden",d="boolean"==typeof
37 e[f])g=a+"visibilitychange",m=(a?a+"V": "v")+"isibilityState";
38 h(f),d=0;addEvent(window,"h",a,ue_viz)}(ue_csm=document.ueinit)})(ue_csm=document.ueinit)}

```

Javascript is used for much more

What is Javascript?

Javascript is a programming language

A programming language is a set of instructions for a computer, that can be used to produce various kinds of outputs.

In our case the output is the web.

First program

```
console.log("Hello World")
```


Where does Javascript run?

- Terminal, via 'node'
 - as scripts, 'node filename.js'
 - REPL, read-eval-print loop
- Browser
 - within HTML
 - the browser console, also REPL

Structure your data!

- hackYourFuture
 - htmlcss
 - week1
 - week2
 - week3
 - git
 - javascript1
 - week1
 - ...

Tip: Don't put any spaces in your filenames.

How does it work?

- Data types
- Variables
- Operators
- Conditions
- Functions
- Loops

How does it work?

Data types:

Data types save data.

[Boolean, Strings, Numbers,
Arrays, undefined]

`"Hello World"`

`"Hack Your Future"`

`true`

`1`

`2`

`[1,3,2]`

`["Hack", "Your", "Future"]`

How does it work?

Variables:

Variables hold instances of data types.

```
let a = "Hello World";  
const b = 2;  
let c = ["Hack", "Your", "Future"];
```

How does it work?

Operators:

With operators a variable is assigned.
Operators let two or more variables interact.

```
const a = 5;  
const b = 2;  
const c = a - b;  
const d = "Hack Your";  
const e = " Future";  
const f = d + e;
```