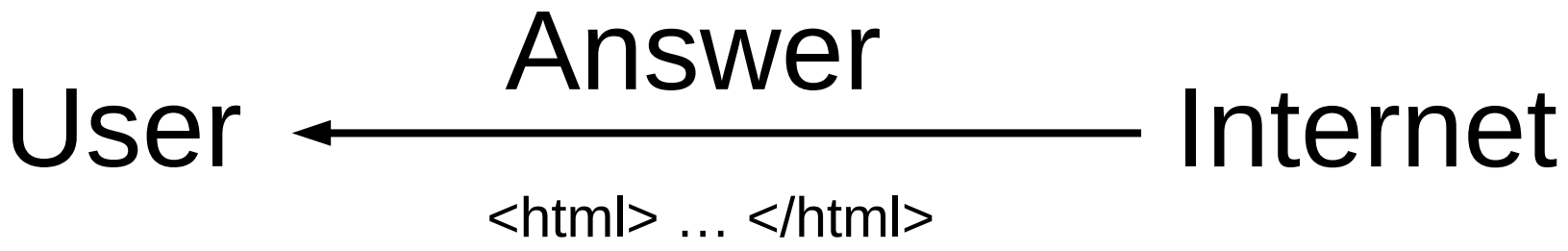
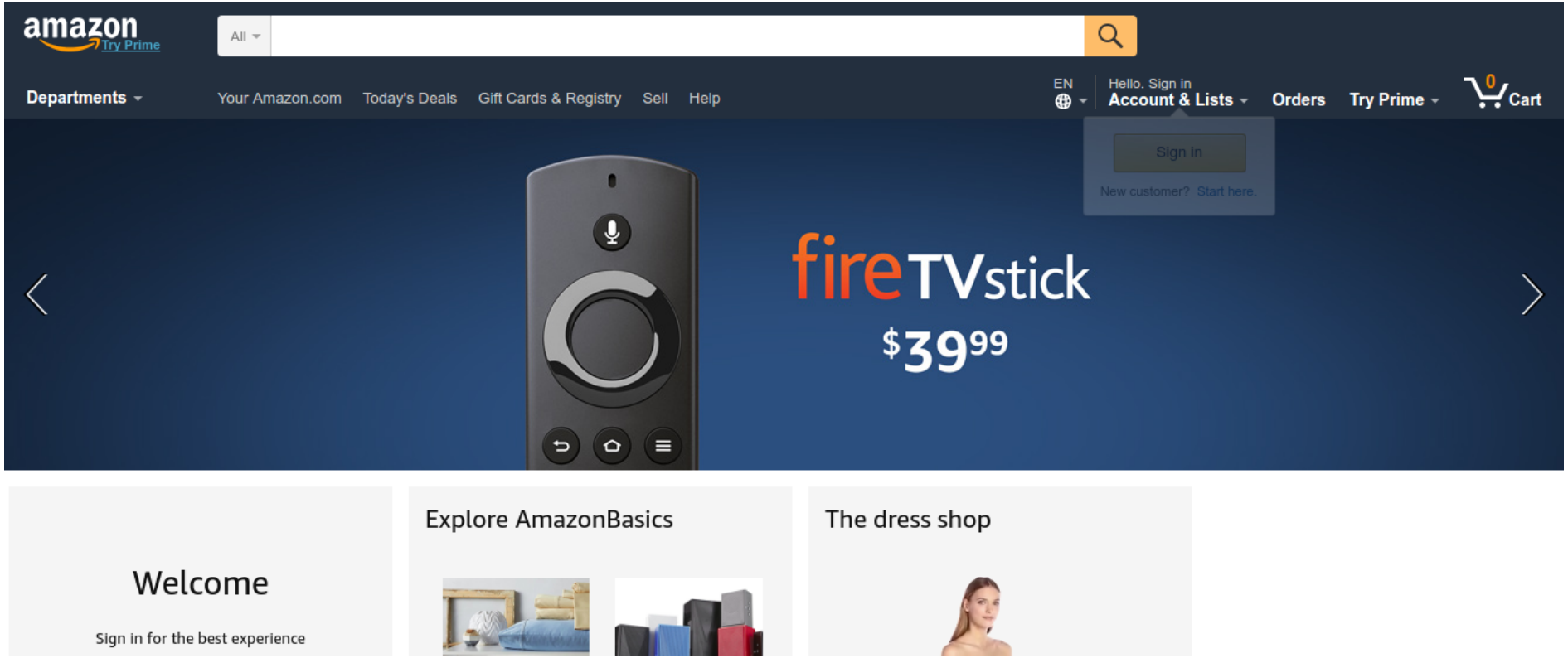
Javascript
Week 1

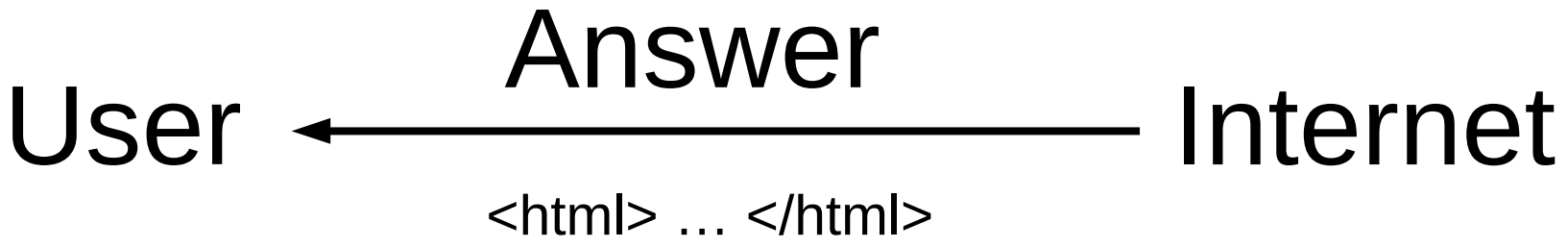
Introduction



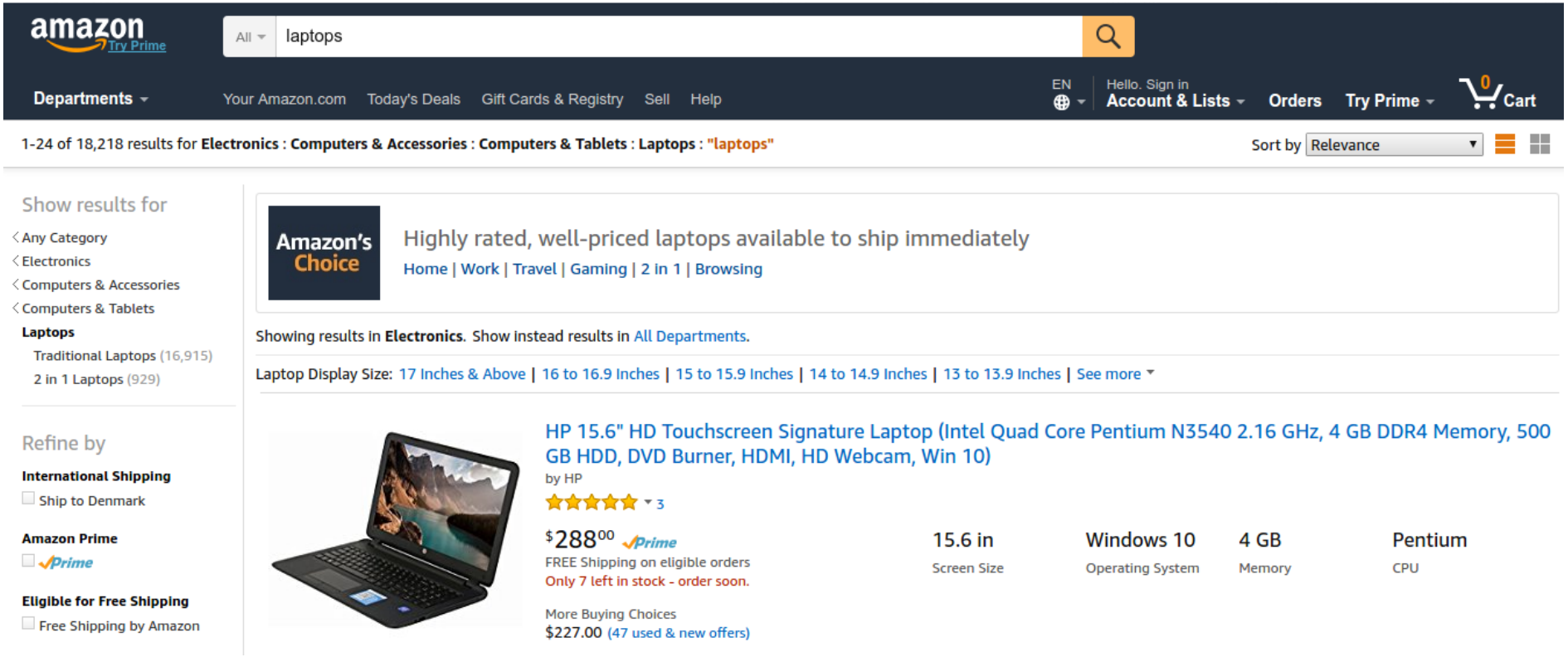
Introduction



Introduction



Introduction



Javascript

```
<!doctype html><html class="a-no-js" data-19ax5a9jf="dingo"><head><script>var aPageStart = (new Date()).getTime();</script><meta charset="utf-8">
<script type='text/javascript'>var ue_t0=ue_t0||+new Date();</script>
<script type='text/javascript'>
var ue_csm = window,
    ue_hob = +new Date();
(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=
[];b[a]=function(){c.push([c.slice.call(arguments),e.d(),d.ue_id])};b[a].replay=function(b){for(var
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,
{attribution:a||"undefined",logLevel:"WARN"})}}}})(ue_csm);


    var ue_err_chan = 'jserr-rw';
(function(d,e){function h(f,b){if(!(a.ec>a.mxe)&&f){a.ter.push(f);b=b||{};var
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?
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)
{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
k="FATAL",m="ERROR",n="WARN",p="DOWNGRADED",a={ec:0,ecf:0,
pec:0,ts:0,erl:[],ter:[],mxe:50,startTimer:function(){a.ts++;setInterval(function()
{d.ue&&a.pec<a.ec&&d.uex("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);


var ue_id = '4PHNPEHNWMQZ77ZRRTBE',
    ue_url = '/mn/search/uedata/168-1181623-4517606',
    ue_navtiming = 1,
    ue_mid = 'ATVPDKIKX0DER',
    ue_sid = '168-1181623-4517606',
    ue_sn = 'www.amazon.com',
    ue_furl = 'fls-na.amazon.com',
    ue_surl = '//unagi-na.amazon.com/1/events/com.amazon.csm.nexusclient.prod',
    ue_fcsn = 1,
    ue_urt = 3,
    ue_rpl_ns = 'cel-rpl',
    ue_fpf = '//fls-na.amazon.com/1/batch/1/OP/ATVPDKIKX0DER:168-1181623-4517606:4PHNPEHNWMQZ77ZRRTBE$uedata=s:',

    ue_swi = 1;
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&&
(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&&
(ue.isl&&uex("at"),l=1))}}for(var l=0,f,g,m,n=["","webkit","o","ms","moz"],d=0,p=20,h=0;h<n.length&&!d;h++)if(a=n[h],f=(a?a+"H":"h")+"idden",d="boolean"==typeof
e[f])g=a+"visibilitychange",m=(a?a+"V":"v")+"isibilityState";
```

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;
```