

A new way to develop for the web

## **Oversimplified history of programming languages**

We are overdue for some new ideas.



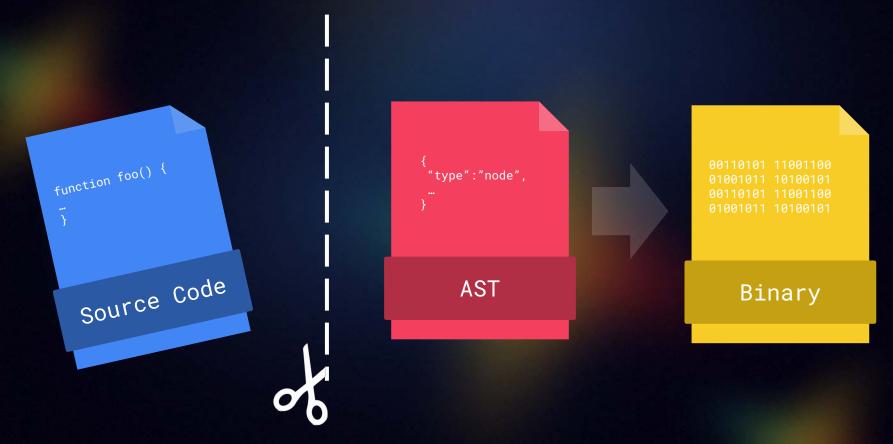


The most dangerous phrase in the language is, 'We've always done it this way'.

- Grace Hopper

```
.srcElement;!a.getAttribute&&a.parentNode&&(a=a.pa
                                                  har () coma:-c! \c-c. har enrighter is the in
gator[].!/Opera/.test(navigator.userAgent)&&/WebKit/.test(mavigator.userAgent)&&/WebKit/.test(mavigator.userAgent)
sPrevented=!0},F={A:13,BUTTON:0,CHECKBOX:32,COMBOBOX:13,
4010:32, RADIOGROUP:32, RESET:0, SUBMIT:0, SWITCH:32, TAB:0, TE
OCAL : 10 EMAIL: 10 MONTH: 10 NUMBER: 10 PASSWORD: 10 RANGE: 10.
   .1. TNK: 10, MENU: 10, OPTGROUP: 10, OPTION: 10, PROGRESS: 10, S
                            this.a=null},K=function(a,c){var d=J;d.a=a;d.h=c;d
                 |.a=null;return a};var L=function(){this.i={};this.a=6;
            .al:this.a++;a!=this.h&&a&&a._owner&&(this.j=!0,K(a._owner
) (this.o=[]; this.a=[]; this.g=[]; this.j={}; this.h=null; this.i=[]
  protetype.trim?function(a){return a.trim()}:function(a){
-g7|%:g;var m=c;if("_custom"==m){m=b.detail;if(!m||!m._type
clickmod";else{var l=b.which||b.keyCode;ca&&3==\U.
(bute("type")||e.tagName).toUpperCase()in H||"BUTTON"==e.tagNam
eabled));if(n)l=!1;else{n=(e.getAttribute("role")||e.type||e
be )) los(m="clickkey")}e=b.srcElement||b.target;l=Q(m,b,e,"",m
war = ... |saction;if(!t){var y;t=null;"getAttribute"in u&&( = u.
)(var w=0[C];if(w){var D=w.indexOf(":"),R=-1!=D,ka=R?P(w.substr(
click" == dba.click?(r=q,q="click"):"clickkey"==q?q="click":"click"
toUpperCase(),(c=32==(b.which||b.keyCode)&&"CHECKBOX"!=e)||(e=z(
*(e, tagName, toUpperCase()in fa)||"A"===n||"SELECT"===n||(e.getAn
mouseover"==b.type?"mouseenter":"mouseleave"
| Idea | Id
((*Couchend"=K.event.type, K.event.type, K.e
```





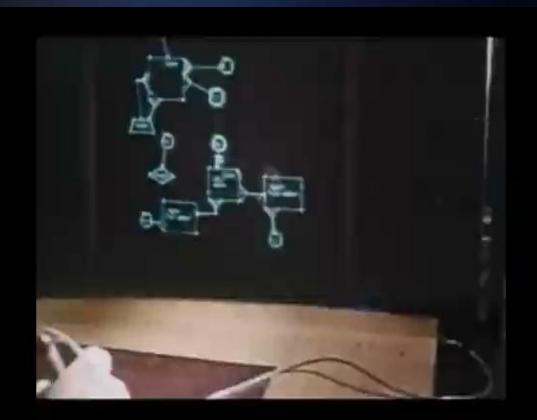


AST

Binary

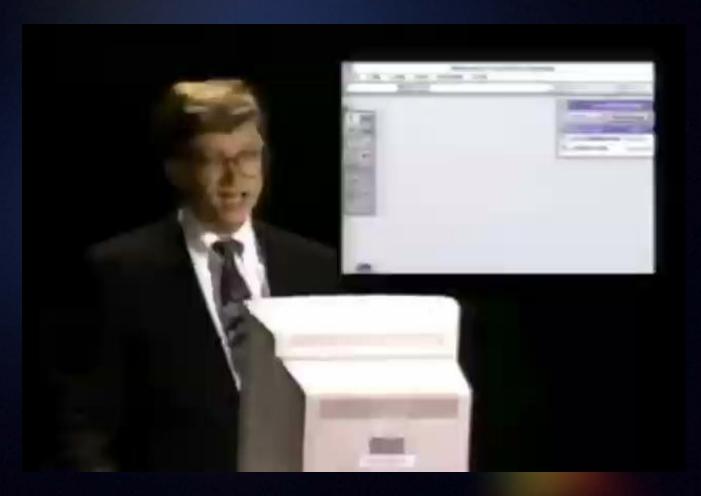
## 1964 GRAIL

Developed by Tom Ellis. Running on the RAND tablet.



## 1991 Visual Basic

Developed by Microsoft Corp.



```
DIO: 32, RADIOGROUP: 32, RESET: 0, SUBMIT: 0, SWITCH: 32, TAB: 0, TRE
CAL": 10, EMAIL: 10, MONTH: 10, NUMBER: 10, PASSWORD: 10, RANGE: 18, S
 .LINK: 10, MENU: 10, OPTGROUP: 10, OPTION: 10, PROGRESS: 10, SELECT: 10
    .h=this.a=null},K=function(a,c){var d=1;d.a=a;d.h=c;d
    . ==null; return a}; var L=function(){this.i=[];
   .al:this.a++;a!=this.h&&a&&a._owner&&(this.j=!0,K(a.
     |, o= (); this.a=(); this.g=(); this.j={}; this.h=null; this.
       pe.trim?function(a){return a.trim()}:function(a){
bute("type")||e.tagName).toUpperCase()in H||"BUTTON"==e.tagN
/// netaKey||(e.getAttribute("type")||e.tagName).toUpperCase()in
tabled));if(n)l=!1;else{n=(e.getAttribute("role")||e.type||e
ver i=u__isection;if(!t){var y;t=null;"getAttribute"in v&&(t=u.o
( var v=0 ( ):!f(w) (var D=w.indexOf(":"),R=-1!=D,ka=R?P(w.substr(0,
click" == d&q click?(r=q,q="click"):"clickkey"==q?q="click":"click"
toUpperCase(),(e=32==(b,which||b.keyCode)&&"CHECKBOX"!=e)||(e=z(b)
| (e, tagName toUpperCase()in fa)||"A"===n||"SELECT"===n||(e.getA)
wd"--> {vprobb"mouseleave"==n)||e&&(e===k||aa(k,e)))l.action=""

(v=0(k.eventType, k.event, k.targetElement,
)
iontlement)(af(a.h)(if(!k.actionElement||"A"!=k.actionElement.
wrnvalur=1]) (b=s.h(k))&&g){p.call(this,b,!1);return}}else{if((g=f.
nut nov!")) if(a, mode vent Listener) { if ("focus"==b||"blur"==b||"error"==b||"los
**Pocusovt"), -ba(d,g), d.attachEvent("on"+b,g)); return{m:b,l:g,
* toddle ** length; b++) if($(a,a[b],c)){c=!0; break a}c=!1}if(c)retu
 (var p=a.a[g];W(p,c)?(d.push(p),X(p)):b.p.
```

# Why did text win?

#### **Flexibility**

A mainstream programming language must be able to handle anything the user throws at it.

#### Collaboration

It must be possible for large teams to collaborate asynchronously

### **Speed**

Applications built in visual languages must be able to compete with those written in code.



AST

Binary



The next generation development platform.