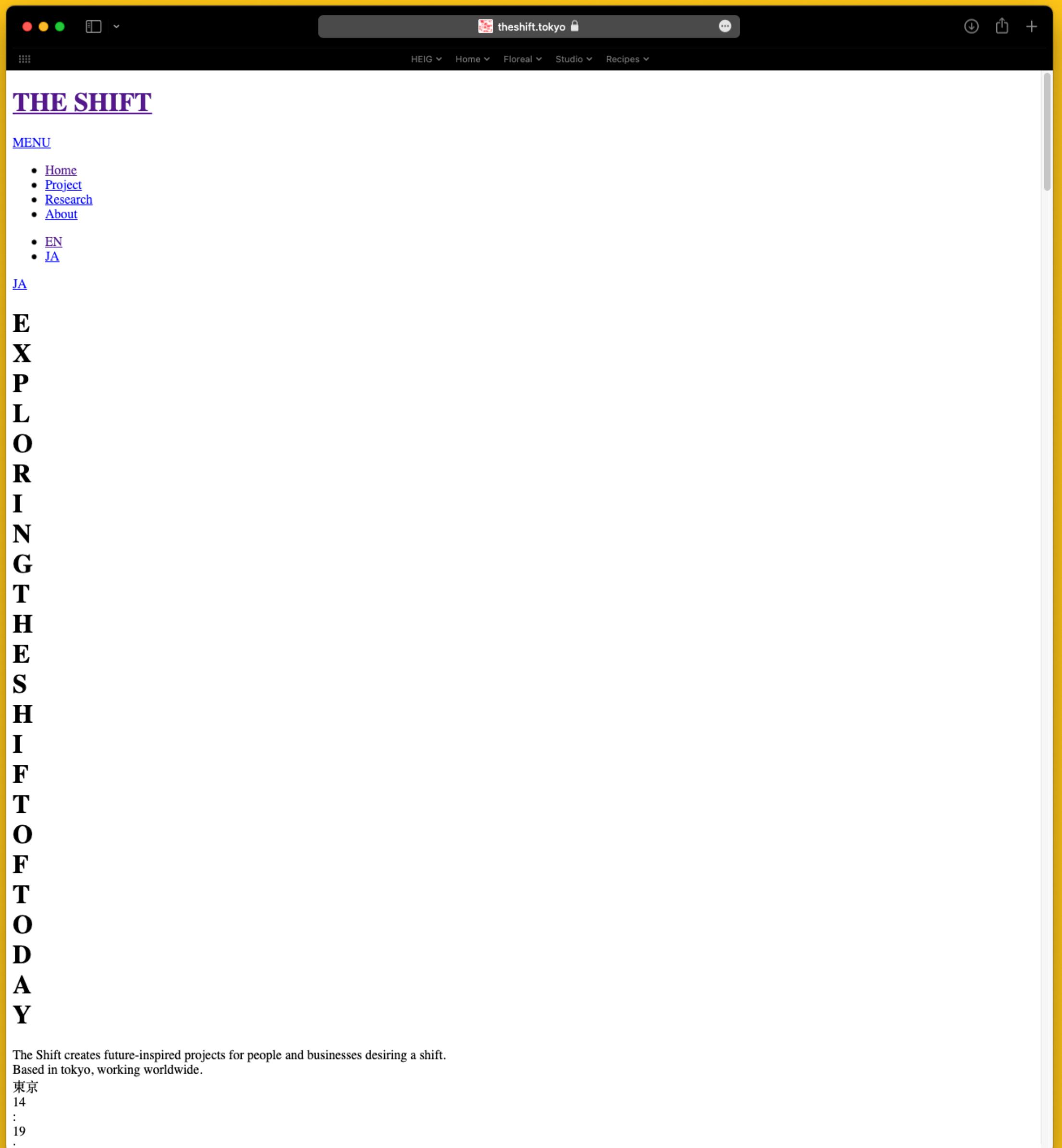


**JavaScript is a high-level, prototype-based object-oriented, multi-paradigm, interpreted or just-in-time compiled, dynamic single-threaded, garbage-collected programming language with first-class functions and a non-blocking event loop concurrency model.**

HEIG-VD / INGÉNIERIE DES MÉDIAS / PROGRAMMATION WEB

# PETITE HISTOIRE DU JAVASCRIPT



A screenshot of a web browser window displaying the website [theshift.tokyo](https://theshift.tokyo). The page has a dark header with a logo and navigation links. A vertical sidebar on the left contains the text "THE SHIFT" at the top, followed by "MENU" and a list of links: Home, Project, Research, About, EN, and JA. Below the sidebar, the main content area features a large, bold, vertical text "EXPLORING THE SHIFT TO DAY". At the bottom of the page, there is a small note about the company's mission and location.

**THE SHIFT**

**MENU**

- Home
- Project
- Research
- About
- EN
- JA

JA

EXPLORING THE SHIFT TO DAY

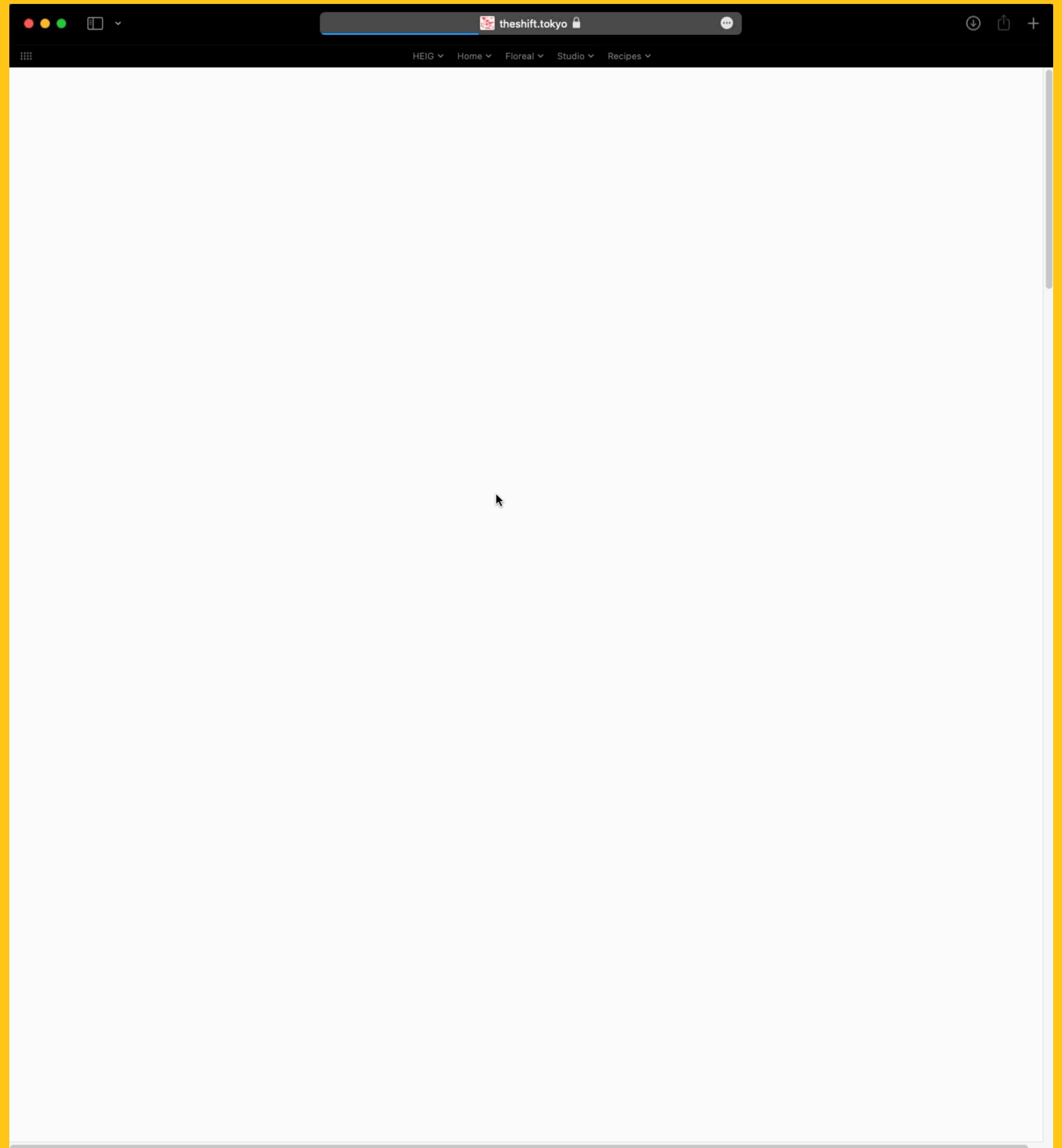
The Shift creates future-inspired projects for people and businesses desiring a shift.  
Based in tokyo, working worldwide.

東京  
14  
:  
19



A screenshot of a website titled "THE SHIFT". The main heading reads "EXPLORING THE SHIFT OF TODAY". Below it is a subtitle: "THE SHIFT CREATES FUTURE-INSPIRED PROJECTS FOR PEOPLE AND BUSINESSES DESIRING A SHIFT. BASED IN TOKYO, WORKING WORLDWIDE." On the right side of the page, there is a circular image showing a crowd at a racing track with the text "ONE RACE" visible. At the bottom left, it says "東京 14:19:43" and at the bottom right "(02/05)". The top navigation bar includes links for "HEIG", "Home", "Floreal", "Studio", and "Recipes". The right sidebar contains links for "HOME", "PROJECT", "RESEARCH", and "ABOUT". A small "JA" button is also present.





JS

**JS**



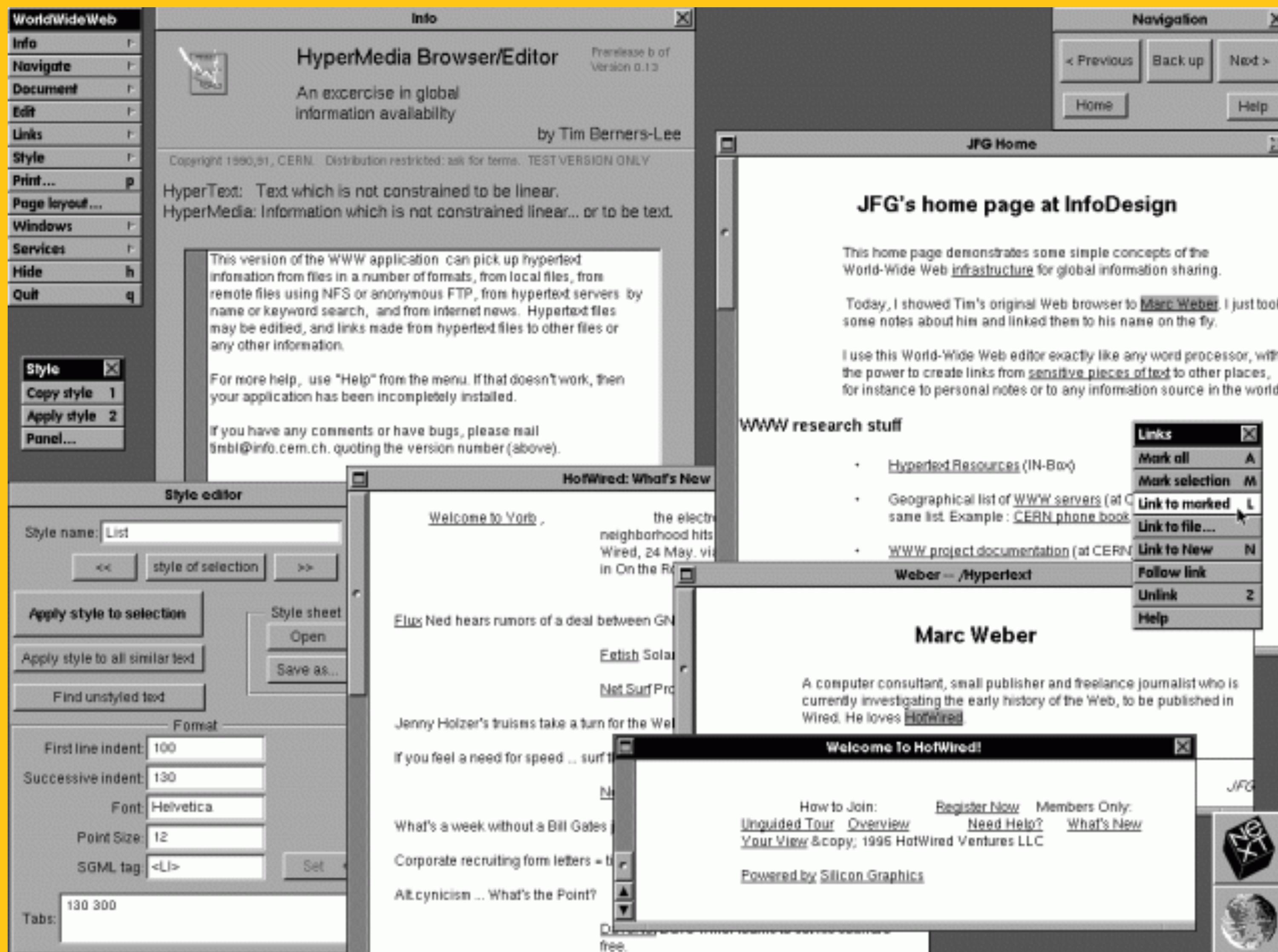


1990



**Tim Berners-Lee**  
HyperMedia Browser  
HTML  
CERN httpd

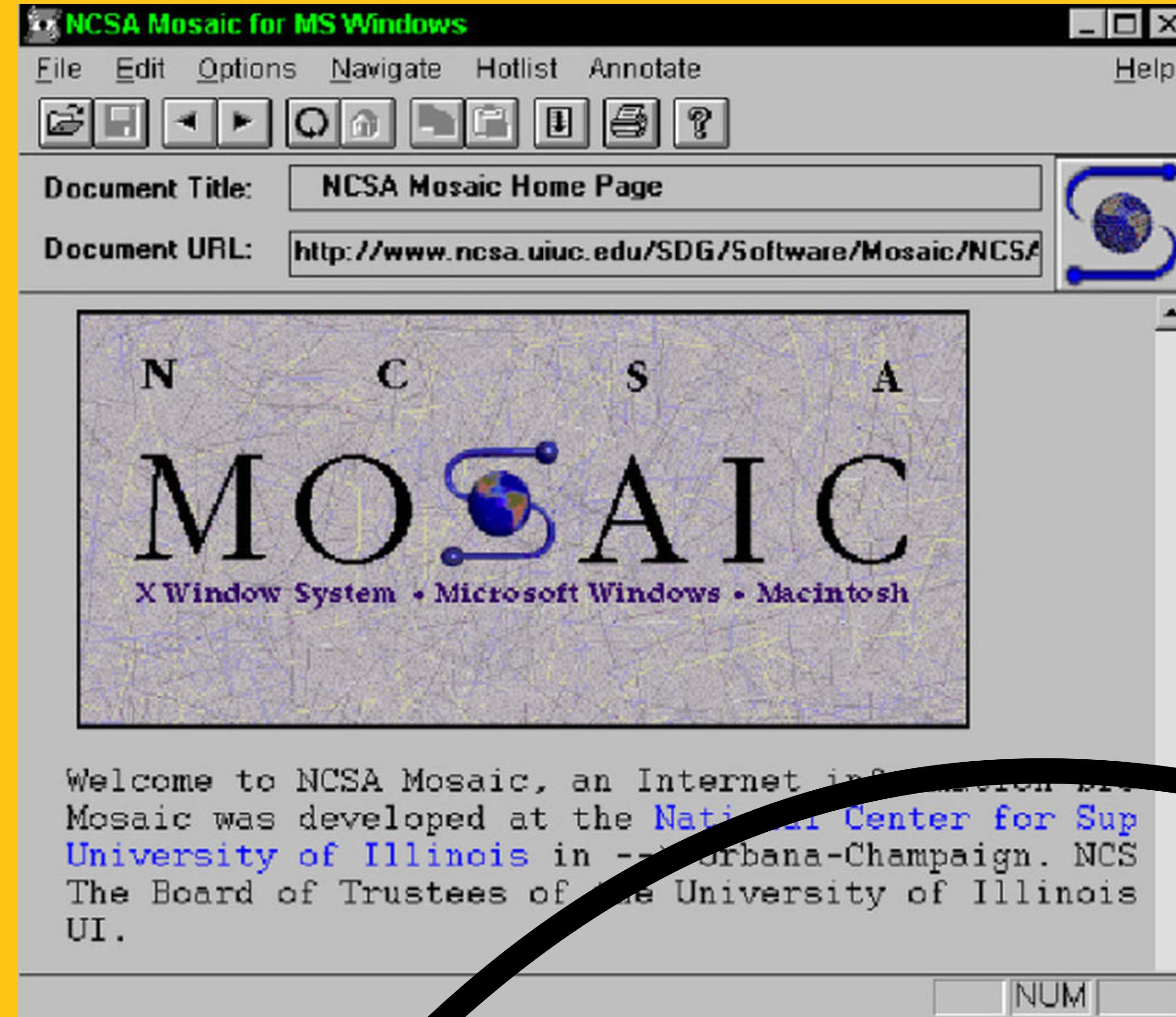
# 1990



1990



1993



Marc Andreessen

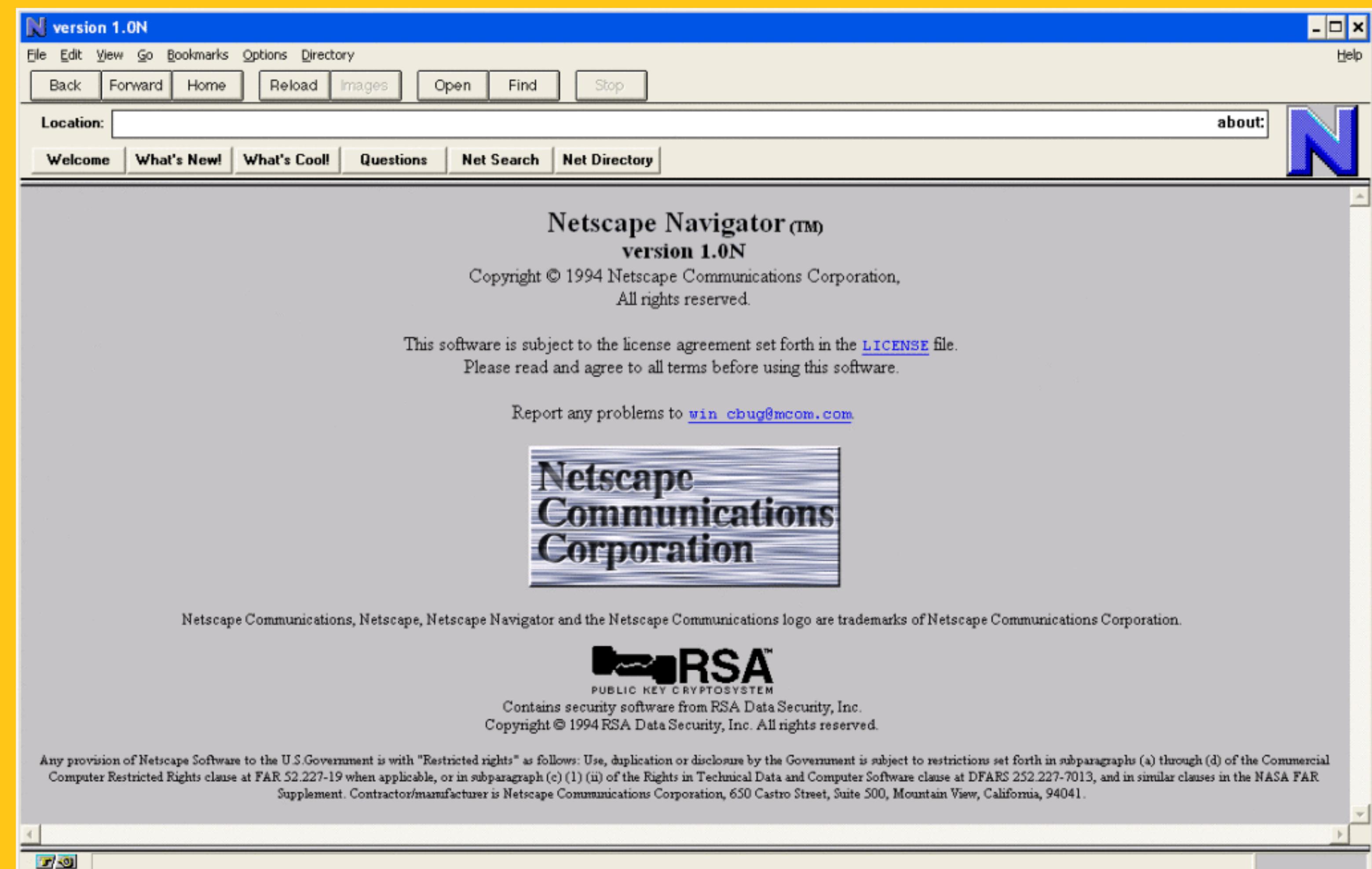




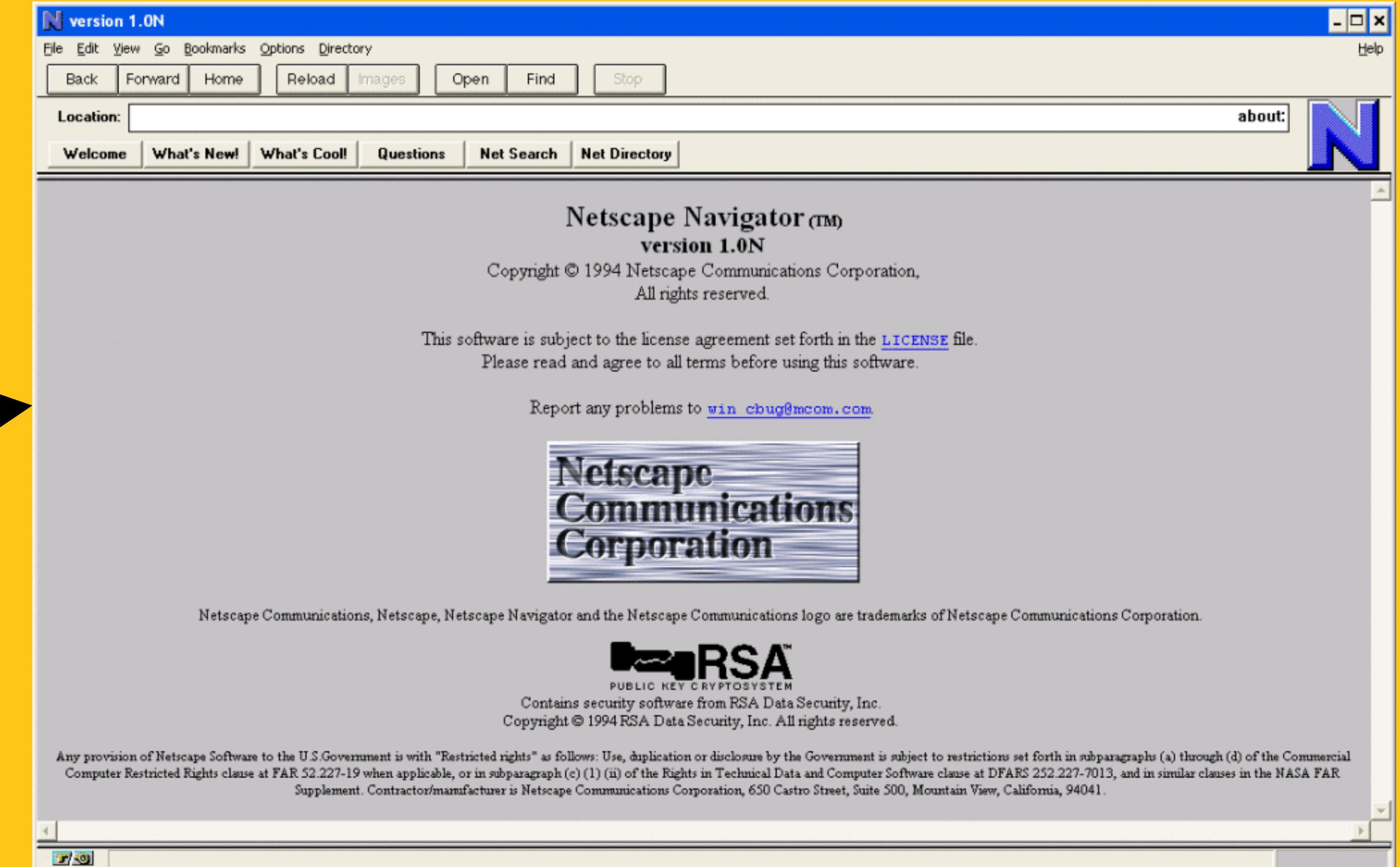
1994



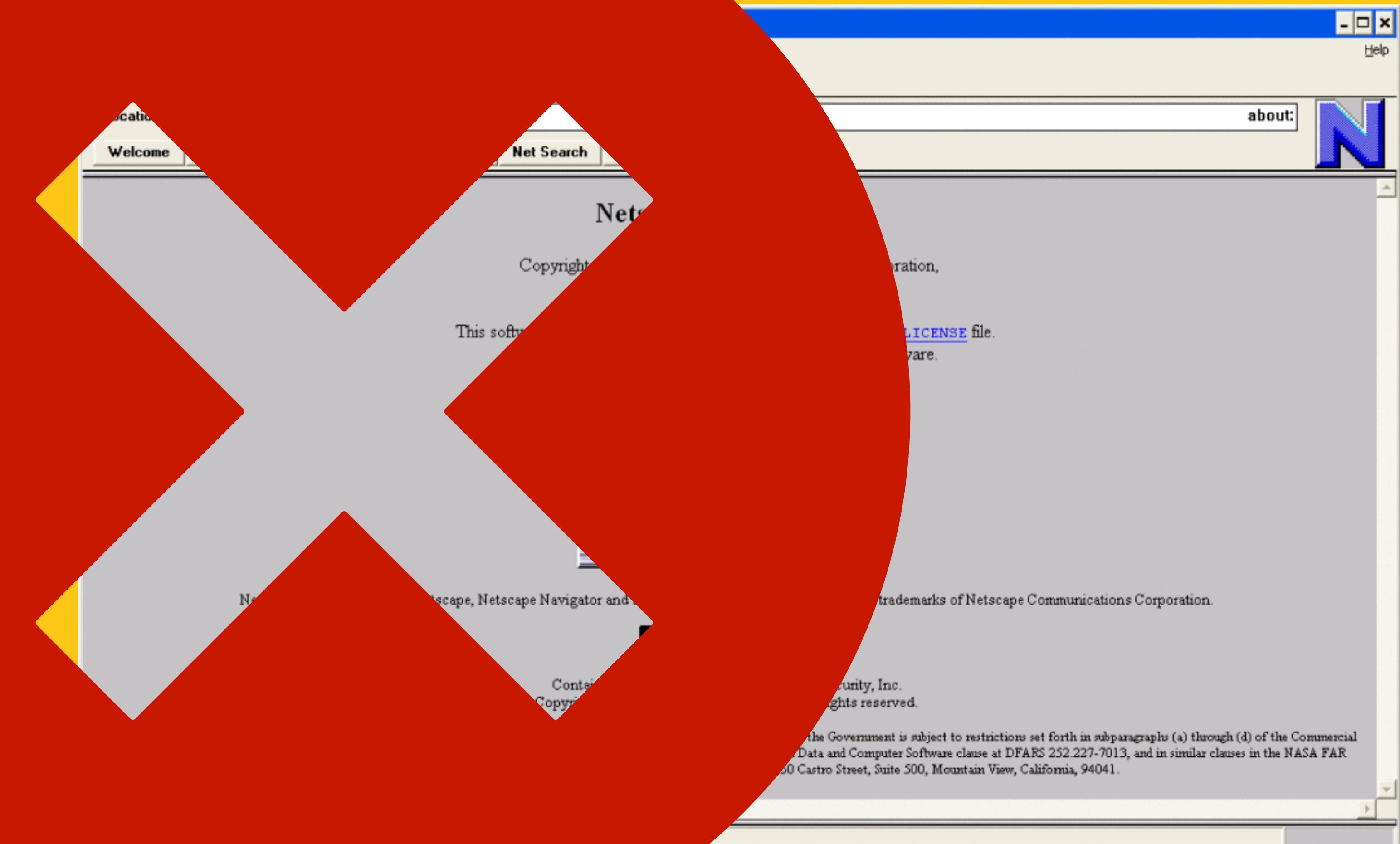
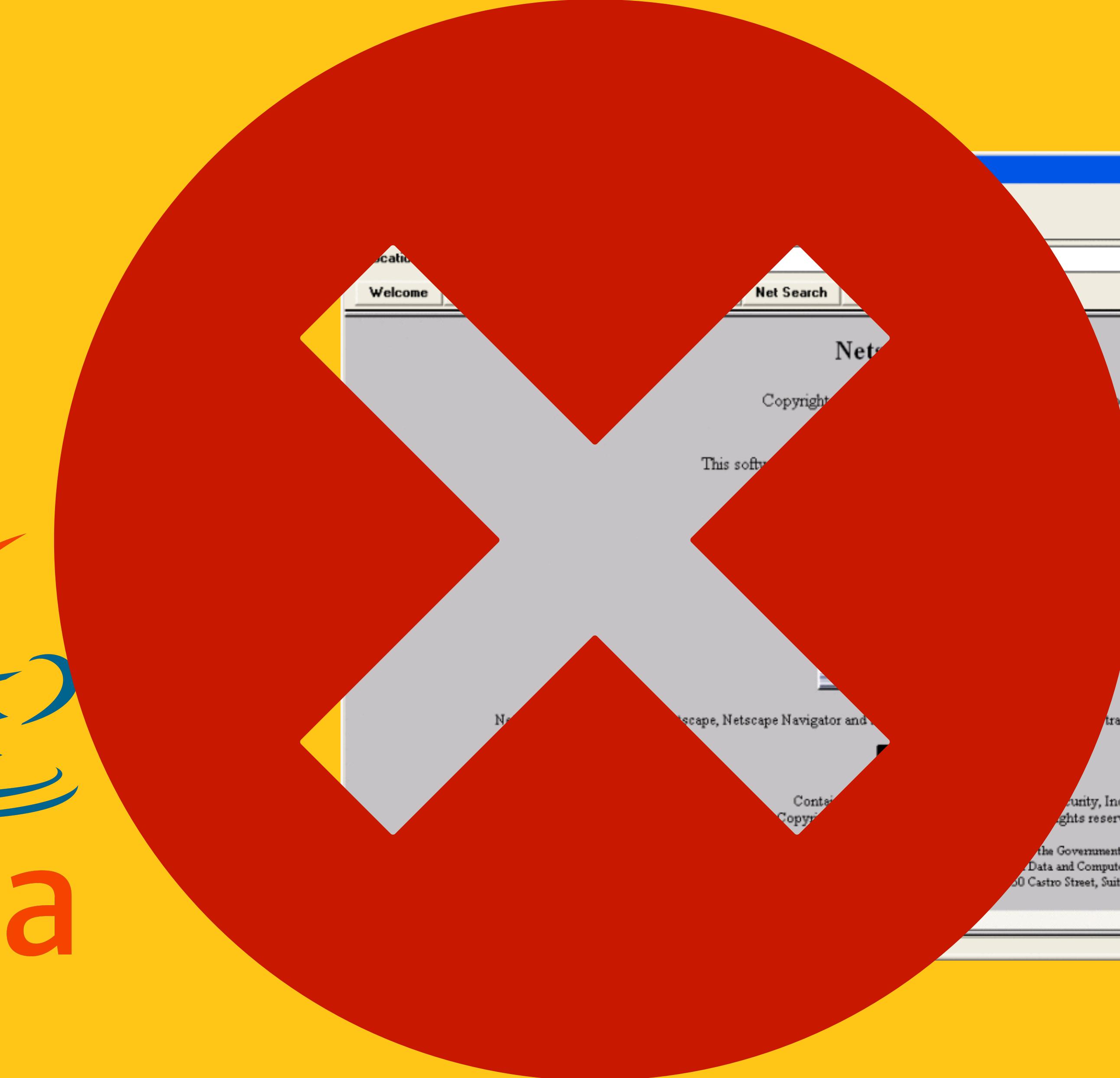
1994



1995



1995





1995

Brendan Eich

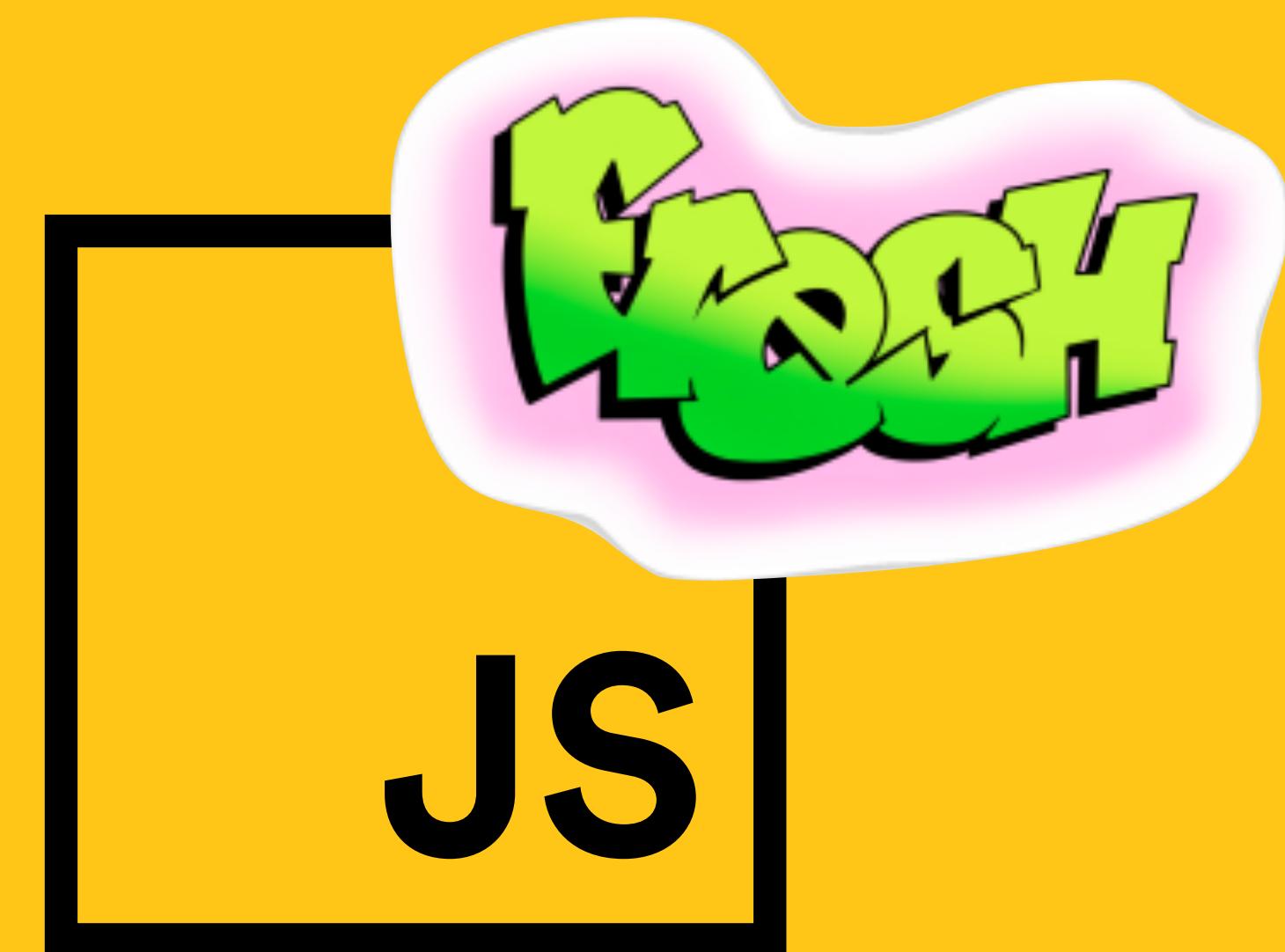
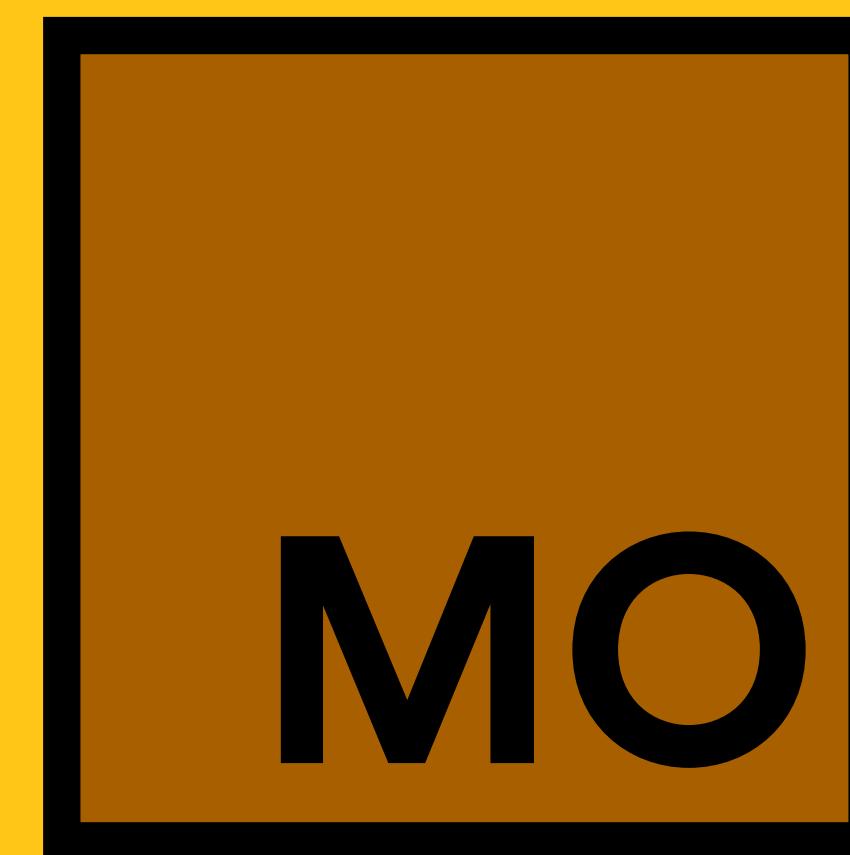
1995



$\lambda$



1995





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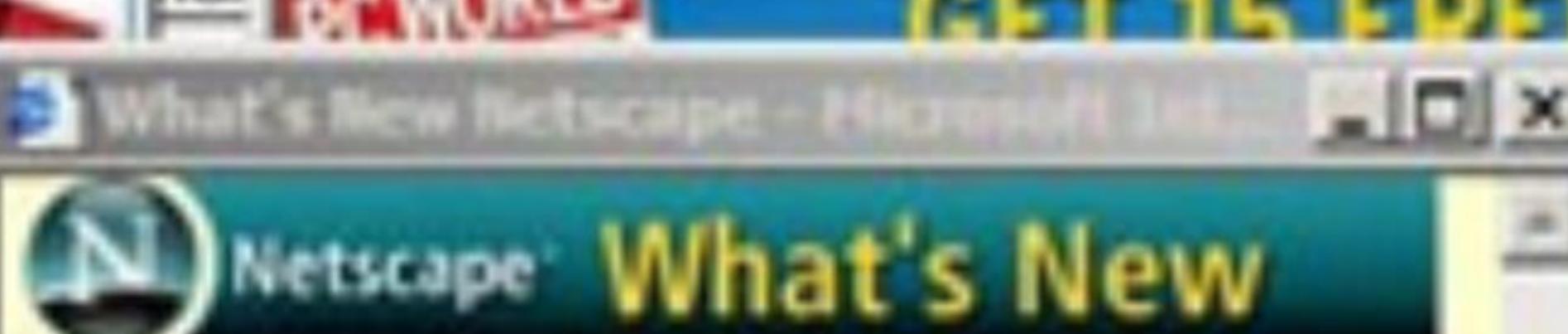
**\$999**

which have at least one underwriting  
licensed agency

AOL  
Net Explorer

save up to  
**70**  
on life

here has n  
tter time  
urance. :



- ▶ Science Proves It: Drinking Causes...
- ▶ Teen Girls Beware: Popular Boys Do THIS
- ▶ Look What Was Found in Stone Age Cave
- ▶ Strange Space Object Mystery Deepens
- ▶ Did You See What Bush Dared to Wear?
- ▶ If You Get This E-Mail Scam, Delete It

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**Home-  
Owners  
Click  
Here**

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MORTGAGE  
COMPANY®

SpecificPOP Network - AOL

**TRAVELZOO**



Install:  
inside C:\

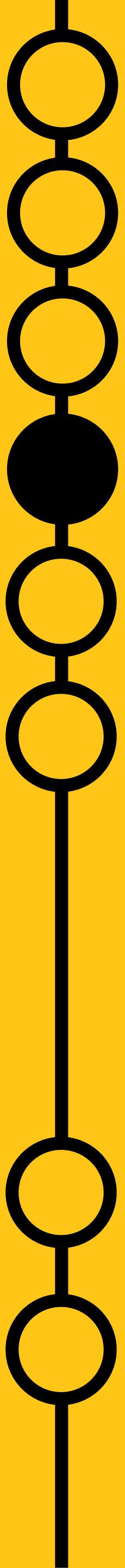
side C:\

Lower your cost, not your standards.

**Rates**

1995





1995

# JAVASCRIPT

1995



**JSCRIPT**



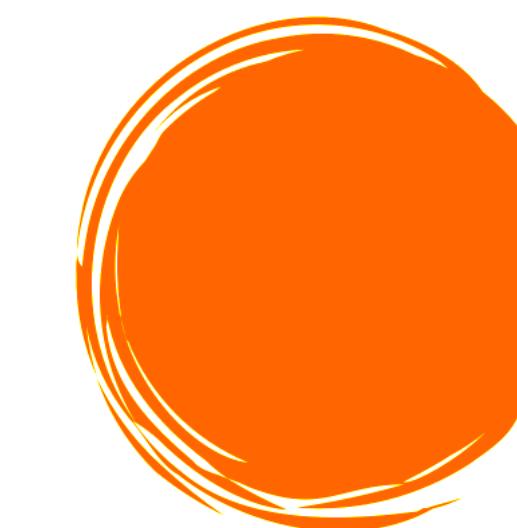
**JAVASCRIPT**



1995



1995



ecma  
INTERNATIONAL

1997

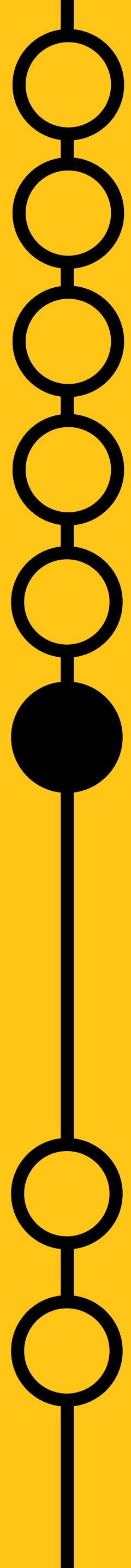


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+41 22 849 60 00

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IW Ecma-262.doc 16-09-97 12,08

ECMASCRIPT 1.0 SPEC - [HTTPS://WWW.ECMA-INTERNATIONAL.ORG/WP-CONTENT/UPLOADES/ECMA-262\\_1ST\\_EDITION\\_JUNE\\_1997.PDF](https://www.ecma-international.org/wp-content/uploads/ECMA-262_1ST_EDITION_JUNE_1997.PDF)



HE  
IG<sup>VD</sup>

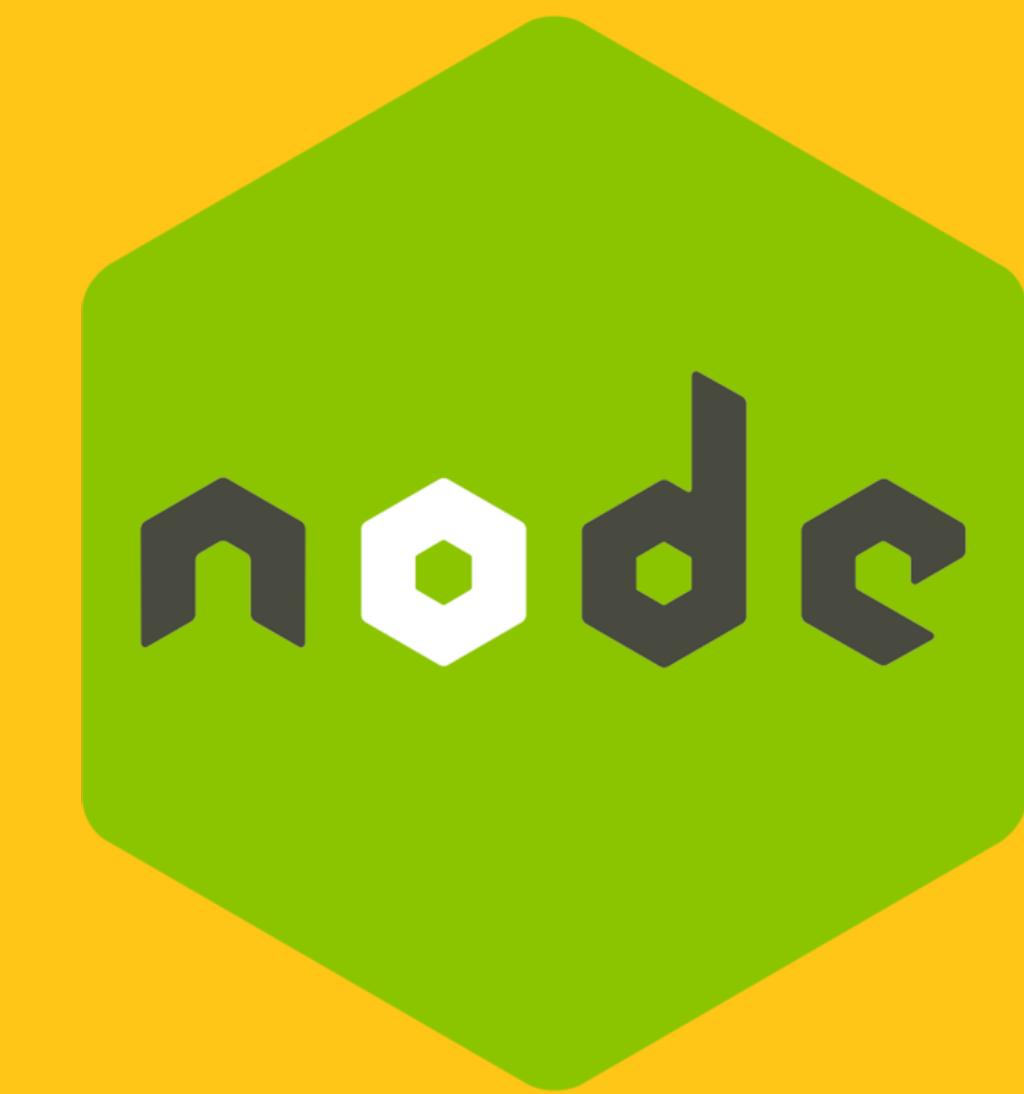
2000



2000 – 2007

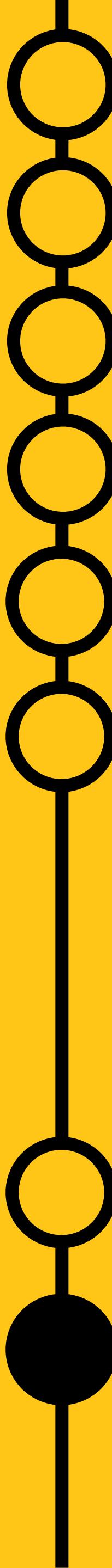


2008



**“Any application that can be written  
in JavaScript, will eventually be  
written in JavaScript.”**

JEFF ATWOOD – CO-FONDATEUR DE STACK OVERFLOW (ATWOOD’S LAW)



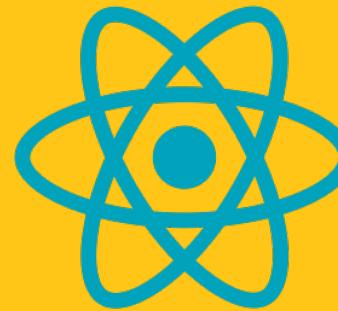
# ES6

2015

RUNTIMES



FRONT-END FRAMEWORKS



FULL-STACK FRAMEWORKS



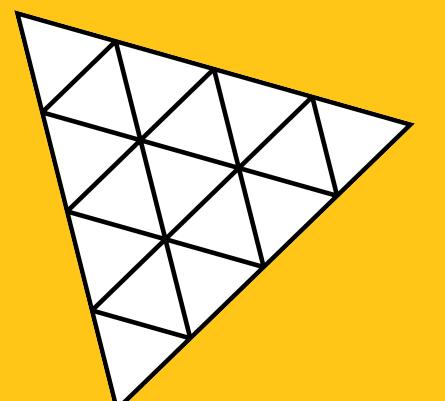
TRANSPILERS



TOOLING



OTHER



# **ES2024**

...

## **ES2018**

## **ES2017**

## **ES2016**

## **ES2015**

## **ES6**

<https://caniuse.com>

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# PROGRAMME

**Maîtriser le langage JavaScript et sa relation au navigateur, dans l'optique de créer des interfaces web dynamiques.**

SEMAINES 1 - 5

## Bases du JavaScript

SEMAINES 6 - 10

## Travailler avec le DOM

SEMAINE 11

## Évaluation intermédiaire

SEMAINE 12 - 14

## JavaScript Asynchrone

SEMAINE 15 - 16

## JavaScript Orienté Objet

SEMAINES 17 - 20:

## JS Modulaire + Tooling

SEMAINE D'EXAMENS

## Évaluation Finale

SEMAINE 11

**Évaluation intermédiaire**  
**50%**

SEMAINE D'EXAMENS

**Évaluation Finale**  
**50%**

**Chaque semaine, vous aurez un challenge à compléter. Ceux-ci ne seront pas notés, mais il est très vivement conseillé de les faire.**

**Comme vous le savez déjà, même pour les étudiant.e.s les plus motivé.e.s, certains sujets techniques sont de vrais murs de difficulté. Les abattre nécessite beaucoup de dévouement. Je serai donc généralement disponible pour répondre à vos questions hors des heures de cours. Je vous encourage néanmoins à faire preuve d'autonomie (lisez la documentation attentivement) et à vous entraider. Attention, entraide ne signifie pas plagiat. Les travaux pratiques doivent être les vôtres et les vôtres uniquement.**

**<https://progweb24.notion.site>**

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# OUTILS



GOOGLE CHROME



VISUAL STUDIO CODE



NODE



GIT