ИНГОССТРАХ. Лекция 1
HTML. Браузеры. Прототипирование.

Я

- МФТИ 2018
- CTO at Swap.online
- Fullstack at Onlineschool.ru
- open-source, hackathon
- github.com/caffeinum

Неделя 1

- HTML
- CSS
- Как создать сайт?

СЕГОДНЯ

- HTML
- Браузеры
- Прототип сайта
- UI Kit

ЗАДАЧИ

- Личная страничка
- Прототип портала
- UI Kit

ССЫЛКИ

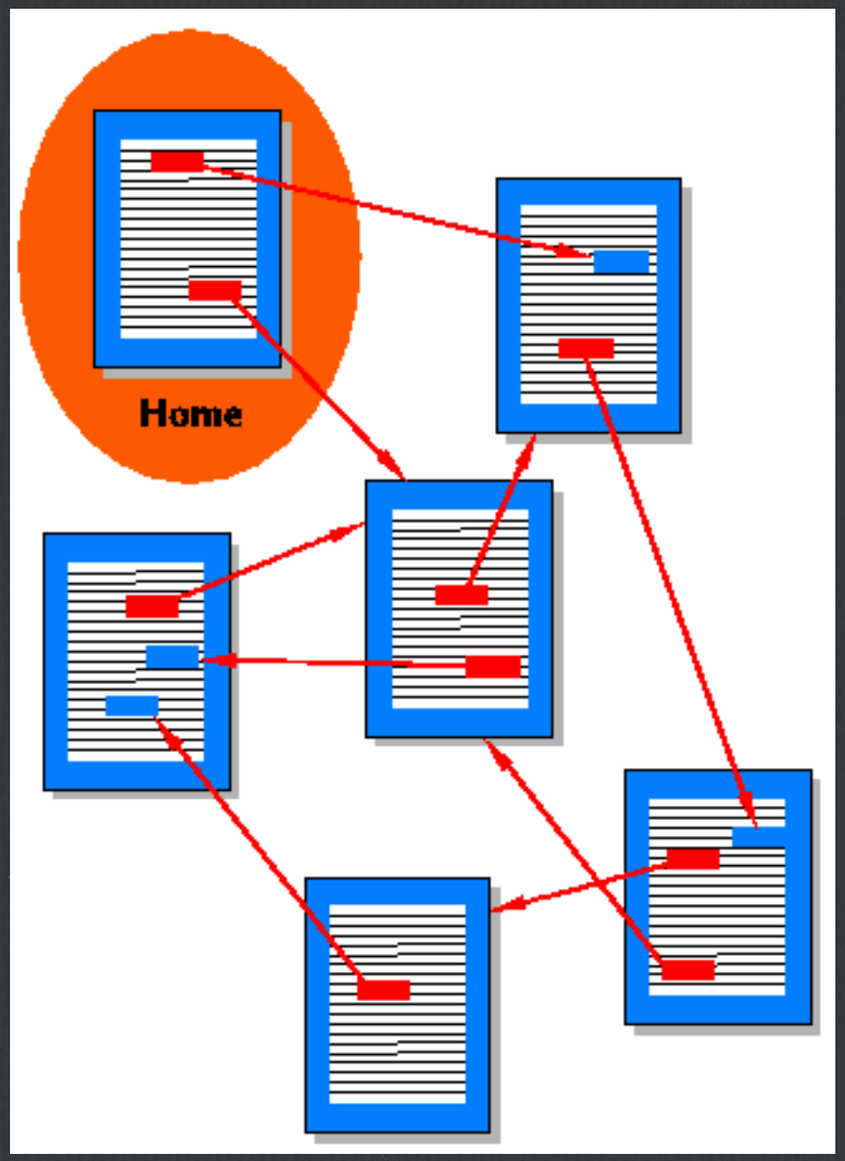
- HTML
  - https://en.wikipedia.org/wiki/HTML
- Браузер
  - https://medium.com/@mustafa.abdalmogoud/how-the-browser-renders-html-css-27920d8ccaa6
  - https://blog.logrocket.com/how-browser-rendering-works-behind-the-scenes-6782b0e8fb10/
- Собираем HTML
  - https://gvanrossum.github.io/
  - https://bykhun.com/
- Прототипирование, UI Kit
  - https://uxdesign.cc/atomic-design-how-to-design-systems-of-components-ab41f24f260e
  - https://www.figma.com/file/G1jn5g3YCnx6OBDkYqPwCzRi/Mathmaker
- Misc:
  - https://vk.com/mipt_web
  - https://fontawesome.com/
  - https://getuikit.com
  - https://fonts.google.com/

HTML

HTML BEGAN IN 1980

- 1980: Tim Berners-Lee, a contractor at CERN, proposed and prototyped ENQUIRE, a system for CERN researchers to use and share documents.
- 1995: HTML 2.0
- 1997: HTML 3.2
- 2000: HTML 4.0
- 2014: HTML 5

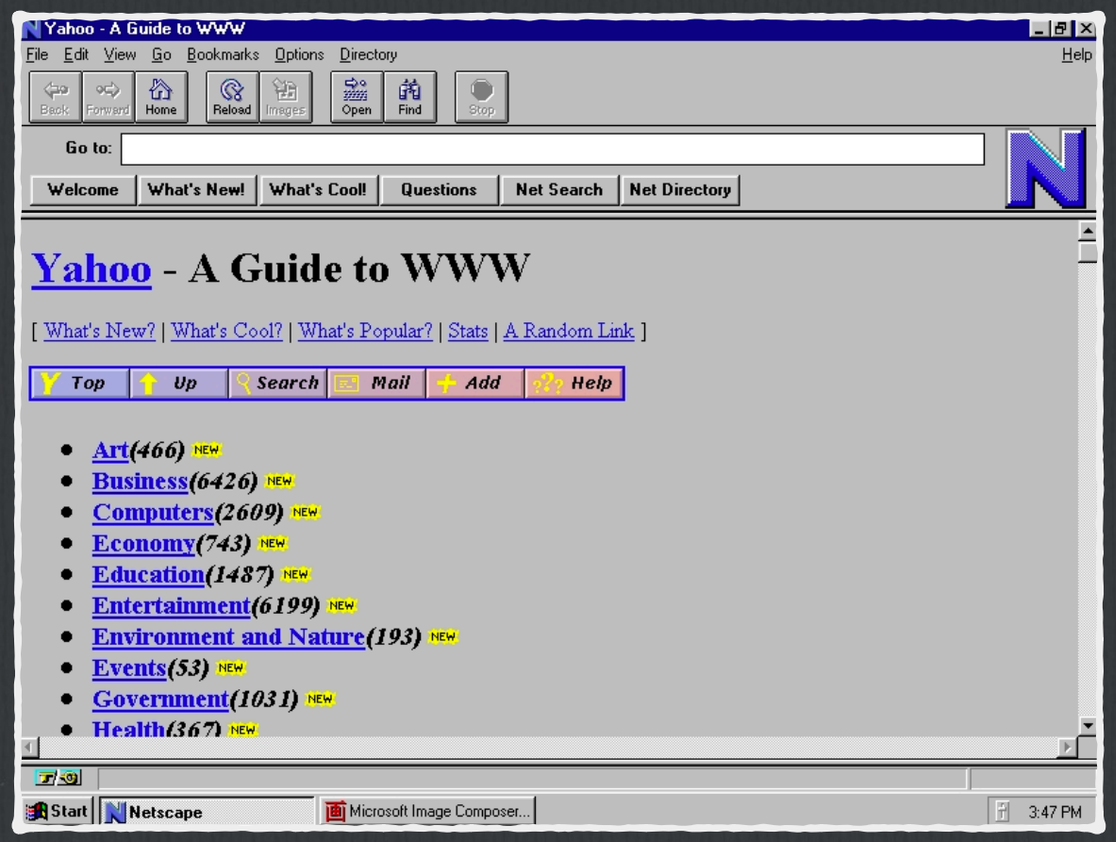
HTML = Hypertext



- Hypertext Markup Language
- Гипертекст это ссылки между документами

WEB

WEB 1.0



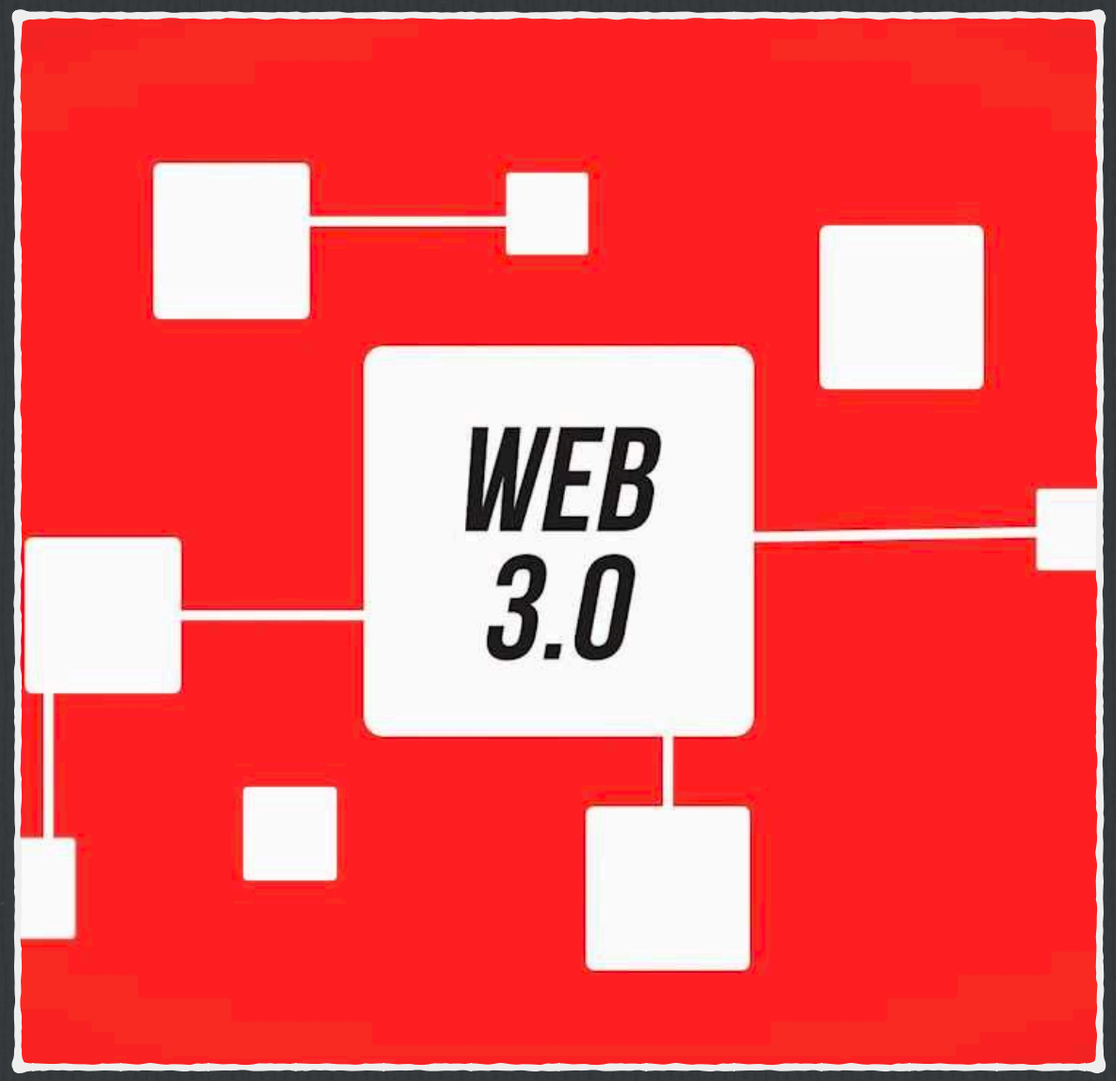
- Пассивное потребление контента
- Персональные веб-сайты
- Статические страницы
- В основном, текст
- 1990-е
- 46 млн пользователей

WEB 2.0

- Пользователь – создатель контента
- Блоговые платформы
- Социальные сети
- Блоки комментариев
- AJAX
- Динамические страницы
- 2000-е
- 1 млрд пользователей

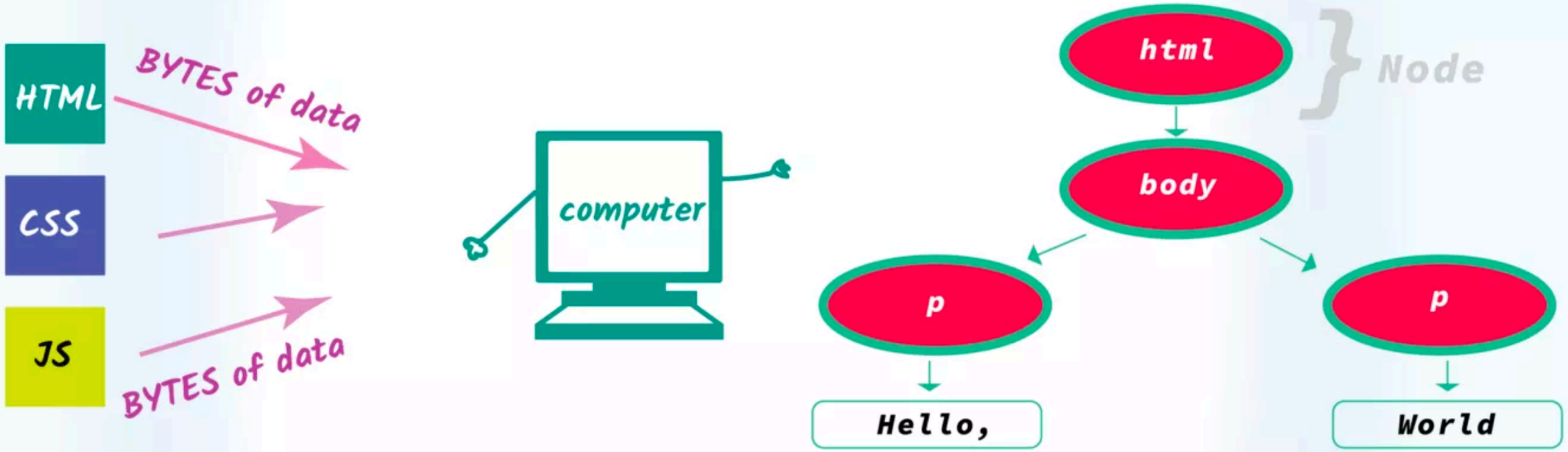
YouTube

WEB 3.0



- Пользователь – продавец услуг
- Блокчейн
- AirBnb, Uber
- Простота приема платежей
- Кризис 2008
- 2010-е

Браузер



Браузер

Ohans Emmanuel – How browser rendering works — behind the scenes

Браузер

- Получает байты по HTTP
- Формирует текстовый файл HTML
- Парсит его в DOM
- Накладывает сверху CSS-стили
- Рендерит на экран
- И повторяет каждые 16 мс!

Браузер

- Получает байты по HTTP
- Формирует текстовый файл HTML
- Парсит его в DOM
- Накладывает сверху CSS-стили
- Рендерит на экран
- И повторяет каждые 16 мс!

```html
<html>

<head>
    <meta name="viewport" content="width=device-width,initial-scale=1">
    <title>Medium Article Demo</title>
    <link rel="stylesheet" href="style.css">
</head>

<body>
    <p id="header">How Browser Rendering Works</p>
    <div><img src="https://i.imgur.com/jDq3k3r.jpg"></div>
</body>
```

Пример HTML

<a> </a>

start-tag token

a with no attributes

end-tag token

a with no attributes

Теги

Примеры HTML-тегов

- <a href="gallery.html">Photos</a>
- Welcome!
- <img src="cat.jpg" />

Больше примеров

- ☐ a href (anchor)
- ☐ img
- ☐ div
- ☐ p (paragraph)
- ☐ h1 (header)
- ☐ ul li (unordered)
- ☐ br (break row)
- ☐ input
- ☐ button
- ☐ style
- ☐ script
- ☐ meta

```html
<html>

<head>
    <meta name="viewport" content="width=device-width,initial-scale=1">
    <title>Medium Article Demo</title>
    <link rel="stylesheet" href="style.css">
</head>

<body>
    <p id="header">How Browser Rendering Works</p>
    <div><img src="https://i.imgur.com/jDq3k3r.jpg"></div>
</body>
```

Пример HTML

HTML файл

- `<!doctype html>`
- `<head>`
  - **Информация про документ в целом: название, доп. файлы**
  - **Meta-теги для поисковых роботов**
- `<body>`
  - **Структура документа**

Браузер

- Получает байты по HTTP
- Формирует текстовый файл HTML
- Парсит его в DOM
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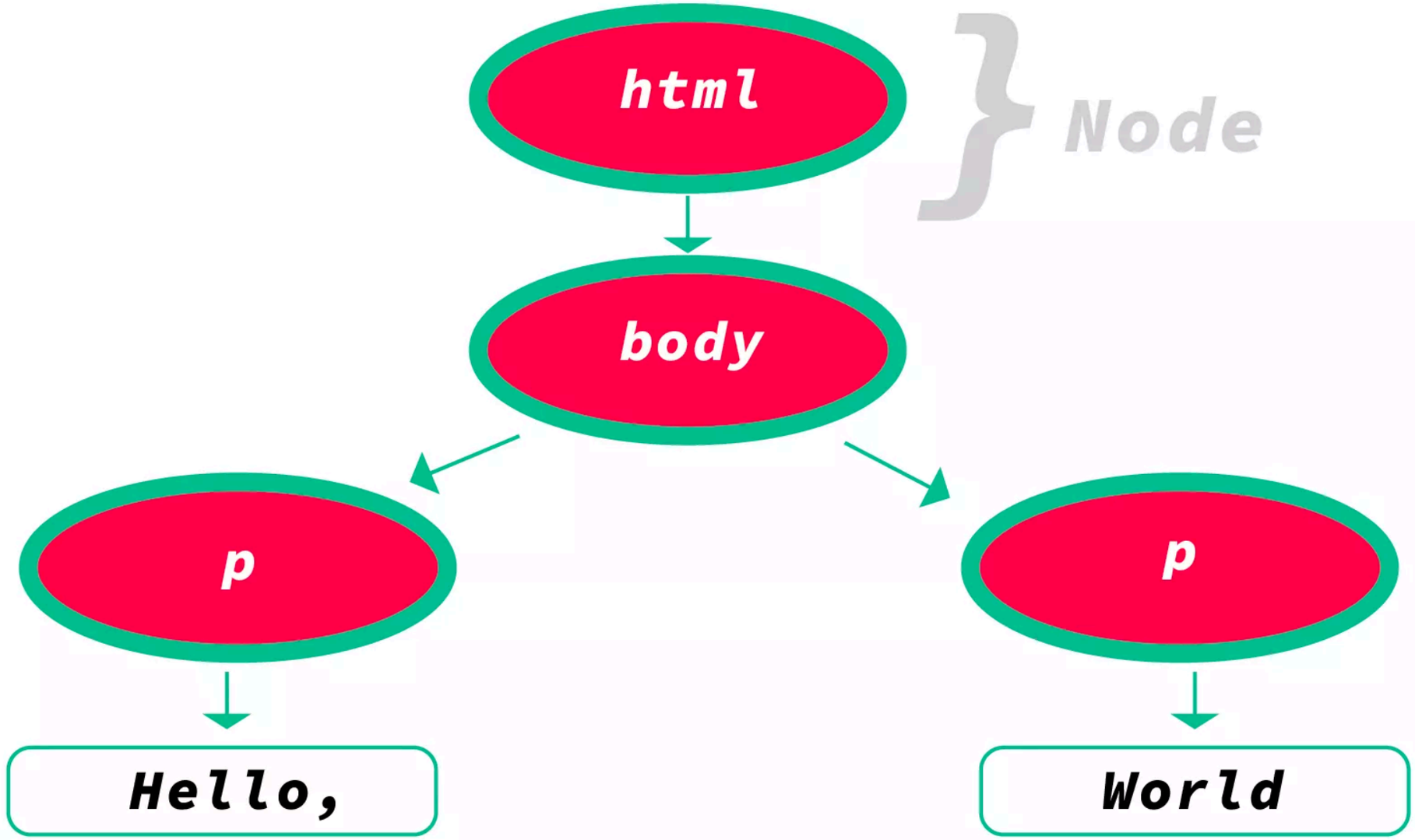


DOM

DOM = Document Object Model

Google

https://www.google.com

Hi Onlineschool
hi@onlineschool.ru

Физтех Радио
radio@phystech.edu

Aleksey B
aleksey@swap.online
All your Brand Accounts »
Add account

input.gNO89b 93.83 × 18

Google Search | I'm Feeling Lucky

Google offered in: русский

Russia
PrivacyTermsSettingsAdvertisingBusinessAbout How Search works

DevTools - www.google.com/

Elements | Console | Sources | Network | Performance | Memory | » | 6

```
<!doctype html>
<html itemscope itemtype="http://schema.org/WebPage" lang="en-RU">
▼<head>
   <title>Google</title>
  </head>
▼<body jsmodel=" " class="hp vasq" id="gsr">
  ▼<div class="ctr-p" id="viewport">
     <div id="doc-info"></div>
     <div id="cst"></div>
    ▼<div class="jhp" id="searchform">
     ▶<div id="gb" class="gb_Pf">…</div>
     ▶<div class="sfbg nojsv" style="margin-top:-20px">…</div>
     ▼<form class="tsf nj" action="/search" style="overflow:visible" id="tsf" method="GET"
     name="f" onsubmit="return q.value!='' " role="search">
       ▶<div id="tophf">…</div>
       ▼<div jsmodel="vWNDde" jsdata="MuIEvd;;BThY4k">
         ▼<div jscontroller="mvYTse" class="A8SBwf" jsaction="DkpM0b:d3sQLd;IQOavd:dFyQEf;
         XzZZPe:jI3wzf;Aghsf:AVsnlb;iHd9U:Q7Cnrc;f5hEHe:G0jgYd;vmxUb:j3bJnb;R2c5O:LuRugf;
         qiCkJd:ANdidc;NOg9L:HLgh3;uGoIkd:epUokb;zLdLw:eaGBS;rcuQ6b:npT2md">
           ▶<div class="RNNXgb" jsname="RNNXgb">…</div>
           ▶<div jscontroller="tg8oTe" class="UUbT9" style="display:none" jsname="UUbT9"
           jsaction="mouseout:ItzDCd;mouseleave:MWfikb;hBEIVb:nUZ9le;YMFC3:VKssTb">…</div>
           ▼<div class="FPdoLc VlcLAe">
             ▼<center>
               <input class="gNO89b" value="Google Search" aria-label="Google Search"
               name="btnK" type="submit"> == $0
               <input value="I'm Feeling Lucky" aria-label="I'm Feeling Lucky" name="btnI"
               type="submit" jsaction="sf.lck">
             </center>
           </div>
         </div>
       </div>
     </form>
   </div>
   <div class="sfbgx"></div>
```

html #gsr #viewport #searchform #tsf div div div.FPdoLc.VlcLAe center input.gNO89b

Styles | Event Listeners | DOM Breakpoints | Properties | Accessibility

Filter :hov .cls +

DevTools - file:///Users/caffeinum/ChromeExperiments/index.html

Elements Console Sources Network Performance Memory »

Filesystem »

+ Add folder to workspace

Chrome Experiments

index.html ×

```
1  <html>
2      <head>
3          <title>My Page</title>
4      </head>
5      <body>
6          <div>
7              Hello Ingosstrah!
8          </div>
9          <img src="http://placekitten.com/200/300" />
10     </body>
11 </html>
12
```

{ } Line 12, Column 1

Scope Watch

Not paused

Call Stack

Not paused

Breakpoints

DevTools - file:///Users/caffeinum/ChromeExperiments/index.html

Elements Console Sources Network Performance Memory

Page

- top
  - file://
    - Users/caffeinum/Chro
      - index.html
  - placekitten.com

index.html

```
1  <html>
2      <head>
3          <title>My Page</title>
4      </head>
5      <body>
6          <div>
7              Hello Ingosstrah!
8          </div>
9          <img src="http://placekitten.com/200/300" />
10     </body>
11 </html>
12
```

{} Line 7, Column 30

Call Stack

Not paused

Breakpoints

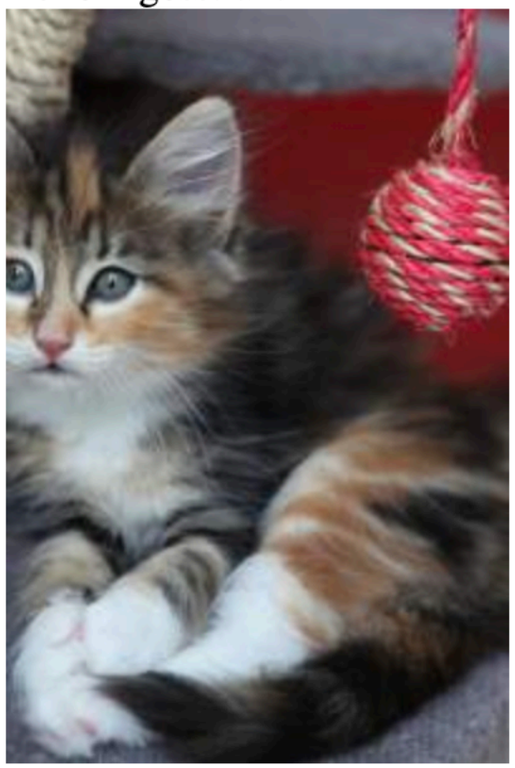
Scope Watch

Not paused

My Page

File | /Users/caffeinum/ChromeExperiments/index.html

Hello Ingosstrah!



DevTools - file:///Users/caffeinum/ChromeExperiments/01-html/kitteh.html

Elements Console Sources Network »

top Filter Default levels

```
> document.querySelectorAll("style")
      .forEach(node => node.remove())
  document.querySelectorAll("link")
      .forEach(node => node.remove())
  document.querySelectorAll("script")
      .forEach(node => node.remove())
<· undefined
```

Google

https://www.google.com

Физтех Радио
radio@phystech.edu

Aleksey B
aleksey@swap.online
All your Brand Accounts »
Add account

Google Search I'm Feeling Lucky

Google offered in: русский

Russia
PrivacyTermsSettingsAdvertisingBusinessAbout How Search works

My Page | Aleksey Bykhun | Washington Post: Breaking Nev

The Washington Post (WP Company LLC) [U | https://www.washingtonpost.com

July 16, 2019
July 16, 2019

The Washington Post

Democracy Dies in Darkness

- Edition:
- U.S. & World
- |
- Regional

- In the News
- Puerto Rico
- Trump Google
- Italy missile
- Census
- Bianca Devins
- Heat wave
- IRS guard
- Suzanne Eaton
- Emmys
- Beyoncé
- Pernell Whitaker
- Tiger Woods

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Google

https://www.google.com

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All your Brand Accounts »
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     ▼<form class="tsf nj" action="/search" style="overflow:visible" id="tsf" method="GET"
      name="f" onsubmit="return q.value!='' " role="search">
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         ▼<div jscontroller="mvYTse" class="A8SBwf" jsaction="DkpM0b:d3sQLd;IQOavd:dFyQEf;
         XzZZPe:jI3wzf;Aghsf:AVsnlb;iHd9U:Q7Cnrc;f5hEHe:G0jgYd;vmxUb:j3bJnb;R2c5O:LuRugf;
         qiCkJd:ANdidc;NOg9L:HLgh3;uGoIkd:epUokb;zLdLw:eaGBS;rcuQ6b:npT2md">
           ▶<div class="RNNXgb" jsname="RNNXgb">…</div>
           ▶<div jscontroller="tg8oTe" class="UUbT9" style="display:none" jsname="UUbT9"
           jsaction="mouseout:ItzDCd;mouseleave:MWfikb;hBEIVb:nUZ9le;YMFC3:VKssTb">…</div>
           ▼<div class="FPdoLc VlcLAe">
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               <input class="gNO89b" value="Google Search" aria-label="Google Search"
               name="btnK" type="submit"> == $0
               <input value="I'm Feeling Lucky" aria-label="I'm Feeling Lucky" name="btnI"
               type="submit" jsaction="sf.lck">
             </center>
           </div>
         </div>
       </div>
     </form>
   </div>
   <div class="sfbgx"></div>
```

html #gsr #viewport #searchform #tsf div div div.FPdoLc.VlcLAe center input.gNO89b

Styles | Event Listeners | DOM Breakpoints | Properties | Accessibility

Filter :hov .cls +

Браузер

- Получает байты по HTTP
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- <u>Накладывает сверху CSS-стили</u>
- Рендерит на экран
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HTML + CSS = Картинка

- HTML
  - Структура
  - = Картинка – CSS
- CSS
  - Отвечает за отображение
  - В следующей серии

Семантика тегов

- HTML это размеченный текст с параметрами
- Теги задают семантику документа
- h1 = header, p = paragraph
- + accessibility

HTML

- Записать структуру
- Не думать про представление

My Page | Aleksey Bykhun | Washington Post: Breaking Nev

The Washington Post (WP Company LLC) [U | https://www.washingtonpost.com

July 16, 2019
July 16, 2019

The Washington Post

Democracy Dies in Darkness

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- IRS guard
- Suzanne Eaton
- Emmys
- Beyoncé
- Pernell Whitaker
- Tiger Woods

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My Page | Aleksey Bykhun | Guido's Personal Home Page

https://gvanrossum.github.io//

Guido van Rossum - Personal Home Page

"Gawky and proud of it."

Who I Am

Read my "King's Day Speech" for some inspiration.

I am the author of the Python programming language. See also my resume and my publications list, a brief bio, assorted writings, presentations and interviews (all about Python), some pictures of me, my new blog, and my old blog on Artima.com. I am @gvanrossum on Twitter.

In January 2013 I joined Dropbox. I work on various Dropbox products and have 50% for my Python work, no strings attached. Previously, I have worked for Google, Elemental Security, Zope Corporation, BeOpen.com, CNRI, CWI, and SARA. (See my resume.) I created Python while at CWI.

How to Reach Me

You can send email for me to guido (at) python.org. I read everything sent there, but if you ask me a question about using Python, it's likely that I won't have time to answer it, and will instead refer you to help (at) python.org, comp.lang.python or StackOverflow. If you need to talk to me on the phone or send me something by snail mail, send me an email and I'll gladly email you instructions on how to reach me.

My Name

My name often poses difficulties for Americans.

My Page | Aleksey Bykhun

https://bykhun.com

Hi! My name is Aleksey Bykhun. I am a great web designer</h1>

Mainly, I do programming (aka coding). Currently I work at small Moscow-based cryptostartup called swap.online. I am a Head of R&D there: I try to bend blockchains on command and make `lnd` go *crazy*. Русская версия сайта

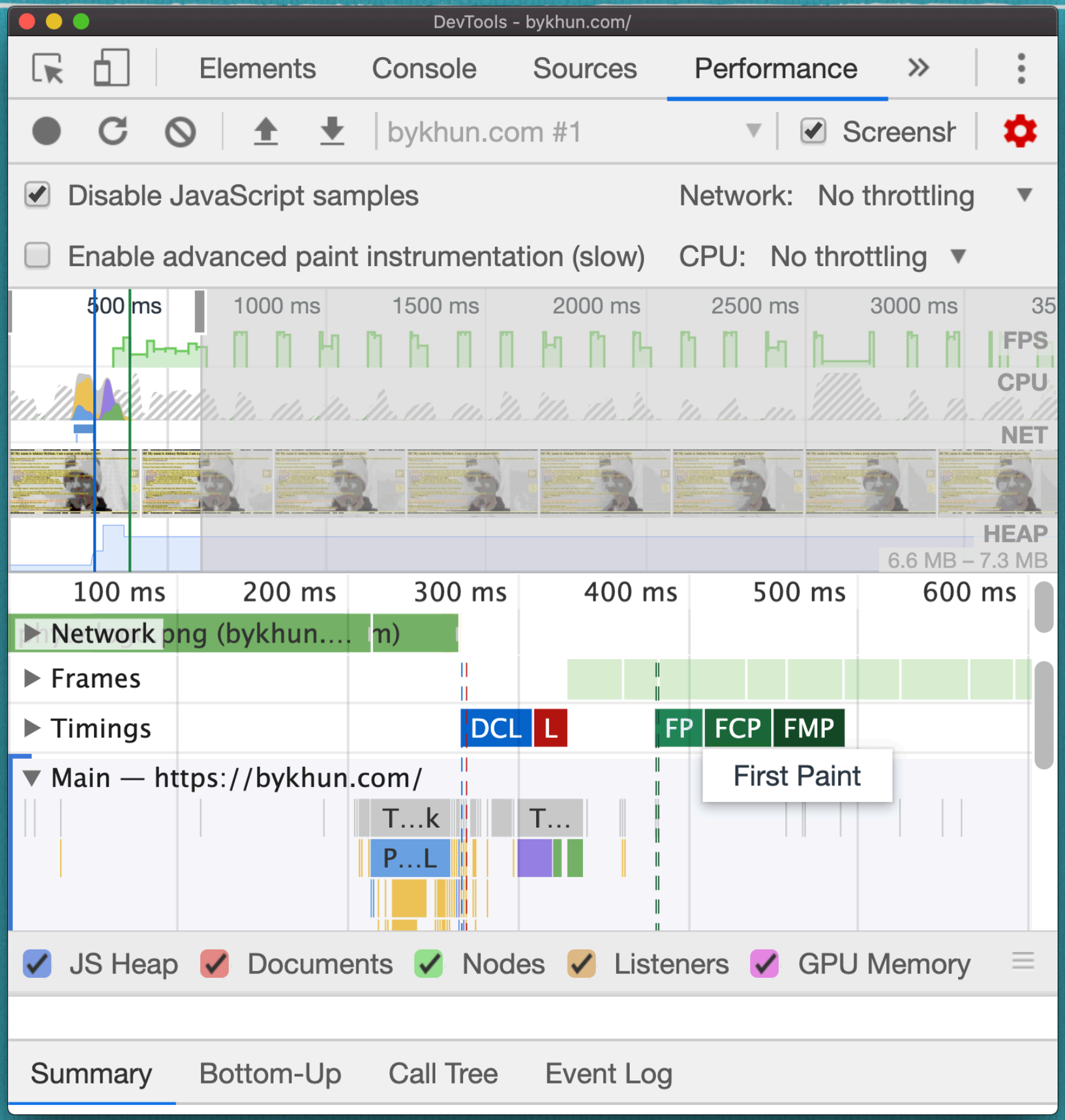
Pro Tip: have a hard time reading? Press `Ctrl + A`. The video is GIF, so don't worry about high FPS

In the past, I have worked on different `JS` and `iOS` projects:

- **swap.online** – open-source protocol for ETH, BTC, ERC20, USDT, EOS exchanges – Head of Research
- **morejust.media** – bias highligher in media: chrome extension and website – Frontend
- Live stream MIPT Open Doors Day. – 8-hour TV programme with me as a presenter
- **pravda.services** – a hackathon-winning pawnshop for ERC721-like assets on expload blockchain – Blockchain Developer
- **phystech.tv** – 24/7 stream of *PHYSTECH* videos **offline**
- **Физтех.Радио** – small iOS app for *PHYSTECH* radio station – Swift
- **SoundMates** – Tinder for musicians / iOS Swift app + NodeJS backend
- **Choice** – social network for posting and answering user's polls / iOS Swift app
- </ul></p>

When away from computer, I usually sleep or eat. However, I have some hobbies:

- For two years I have managed small **coffee**shop. Coffee is my passion
- Sometimes I sing or **rap** with my friends. Videos are not allowed. *There are some of them on the internet, though*.
- I love my **Macbook**</ul>
- **Blog?** Blog.


DevTools - bykhun.com/
Elements
Console
Sources
Performance
bykhun.com #1
Screenshots
Disable JavaScript samples
Network: No throttling
Enable advanced paint instrumentation (slow)
CPU: No throttling
500 ms
1000 ms
1500 ms
2000 ms
2500 ms
3000 ms
FPS
CPU
NET
HEAP
6.6 MB – 7.3 MB
100 ms
200 ms
300 ms
400 ms
500 ms
600 ms
Network
Frames
Timings
DCL
L
FP
FCP
FMP
First Paint
Main — https://bykhun.com/
T...k
T...
P...L
JS Heap
Documents
Nodes
Listeners
GPU Memory
Summary
Bottom-Up
Call Tree
Event Log

Задание 1. CV

- ☐ Скопируйте всю информацию о себе прямо со странички ВК
- ☐ Соберите ее в структуру
- ☐ Оберните в теги
- ☐ Плюс ссылки на профиль
- ☐ И фотографии
- ☐ Не должно быть красиво!

bykhun.html — ~/ChromeExperiments

Project

- ChromeExperiments
  - 01-html
    - bykhun.html
    - kitteh.html
    - remove-styles.js

bykhun.html

```
Alexey Bykhun
set a status message
Birthday:
January 31
Company:
Кафедра Права
Website:
https://bykhun.com
Hide full information
Edit Contact information
Mobile:
+380951586813
Alt. phone:
+79104391963
Skype:
ise-ase
Instagram:
caffeinum
Edit Career
Company:
```

01-html/bykhun.html 0 0 0 3:10 LF UTF-8 HTML GitHub Git (0)

bykhun.html — ~/ChromeExperiments

Project

- ChromeExperiments
  - 01-html
    - bykhun.html
    - kitteh.html
    - remove-styles.js

bykhun.html | kitteh.html

```
30
31    Alexey Bykhun
32
33    January 31
34
35    https://bykhun.com
36
37    +79104391963
38
39    Instagram: caffeinum
40
41    Лекторий МФТИ
42    Moscow, 2014–2015
43    Фронденд Девелопер
44
45    Кофейня 6-ки МФТИ
46    Moscow, since 2014
47    Босс
48
49    College or university:
50    МФТИ '16
51    Department:
```

01-html/bykhun.html 0 0 0 57:1 LF UTF-8 HTML GitHub Git (0)

bykhun.html — ~/ChromeExperiments

Project

- ChromeExperiments
  - 01-html
    - bykhun.html
    - kitteh.html
    - remove-styles.js

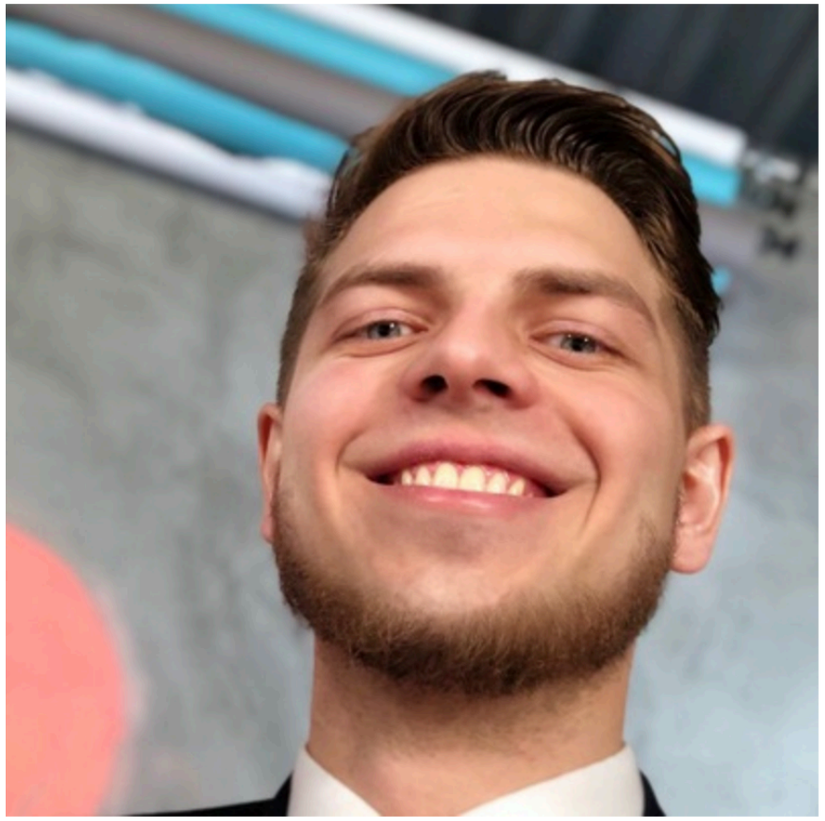
bykhun.html | kitteh.html

```html
<html>
    <head>
        <title>Alexey Bykhun</title>
    </head>
    <body>
        <img
          src="https://pp.userapi.com/c850732/v850732765/fc382/cAUtxjaTD
        />

        <h1>
          Alexey Bykhun
        </h1>

        <i>January 31</i>

        <a href="https://bykhun.com">https://bykhun.com</a>

        <a href="call:+79104391963">+79104391963</a>

        <a href="https://instagram.com/caffeinum">
          Instagram: caffeinum
        </a>

        <ul>
```

01-html/bykhun.html 0 0 0 3:29 LF UTF-8 HTML GitHub Git (0)

Alexey Bykhun

File | /Users/caffeinum/ChromeExperiments/01-html/bykhun.html



Alexey Bykhun

January 31 https://bykhun.com +79104391963 Instagram: caffeinum

- **Лекторий МФТИ** *Moscow, 2014–2015* Фронденд Девелопер
- **Кофейня 6-ки МФТИ** *Moscow, since 2014* Босс
  College or university:
- МФТИ '16 Department: Факультет общей и прикладной физики
- МФТИ (Физтех) '18 Department: Факультет управления и прикладной математики

Прототипирование

Как построить прототип?

- User stories
- Не рисовать!
- Функциональные требования
- Не рисовать!
- Экраны
- Теперь можно рисовать

Прототип Google. User story

- ☐ заходит на главную страницу
- ☐ вводит поисковый запрос
- ☐ нажимает на “Поиск в Google”
- ☐ видит список результатов
- ☐ может выбрать подходящий
- ☐ может перейти на эту страницу

Прототип Google. User story

- ☐ заходит на главную страницу
- ☐ вводит запрос
- ☐ находит ответ на него

how to set cookie js at DuckDu

https://duckduckgo.com/?q=how+to+set+cookie+js&atb=v164-1&ia=web

how to set cookie js

Privacy, simplified.

Web Images Videos News Maps Settings

Russia Safe Search: Moderate Any Time

Not many results contain **js**.

Search only for how set cookie "js"?

Cookie Set Sold Direct on eBay | Fantastic Prices on **Cookie Set** AD

www.ebay.com Report Ad

Check Out **Cookie Set** on eBay. Fill Your Cart With Color Today!

JavaScript Cookies - W3Schools

https://www.w3schools.com/js/js_cookies.asp

Last, we create the function that checks if a **cookie** is **set**. If the **cookie** is **set** it will display a greeting. If the **cookie** is not **set**, it will display a prompt box, asking for the name of the user, and stores the username **cookie** for 365 days, by calling the **setCookie** function:

Set cookie and get cookie with JavaScript - Stack Overflow

https://stackoverflow.com/questions/14573223/set-cookie-and-get-cookie-with-javas...

I'm trying to **set** a **cookie** depending on which CSS file I choose in my HTML. I have a form with a list of options, and different CSS files as values. When I choose a file, it should be saved to a co...

How to Set a Cookie with JavaScript - Thonky.com

https://www.thonky.com/javascript-and-css-guide/set-cookie

Set cookie and get cookie with JavaScript

http://stackoverflow.com/questions/14573223/ddg#24...

I find the following code to be much simpler than anything else:

```
function setCookie(name,value,days) {
    var expires = "";
    if (days) {
        var date = new Date();
        date.setTime(date.getTime() +
(days*24*60*60*1000));
        expires = "; expires=" +
date.toUTCString();
```

Feedback

Send Feedback

Прототип Google. Функциональные требования

- Удобно начинать требования со слов “На странице можно…”
- На главной странице Твиттера можно увидеть свежие новости
- На главной странице Фейсбука можно опубликовать новый пост для друзей

Прототип Google. Функциональные требования

- Можно…
  - ввести поисковый запрос
  - увидеть результаты
  - желательно больше одного
  - понять, какой из результатов подходящий
  - перейти на искомую страницу

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https://duckduckgo.com/?q=how+to+set+cookie+js&atb=v164-1&ia=web

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Feedback

Send Feedback

Прототип Google. UX

- Функциональные требования превращаются в элементы интерфейса
- Важно понять, что за элементы и где они находятся
- Неважно, как они выглядят, важно, что они делают

Прототип Google. UX

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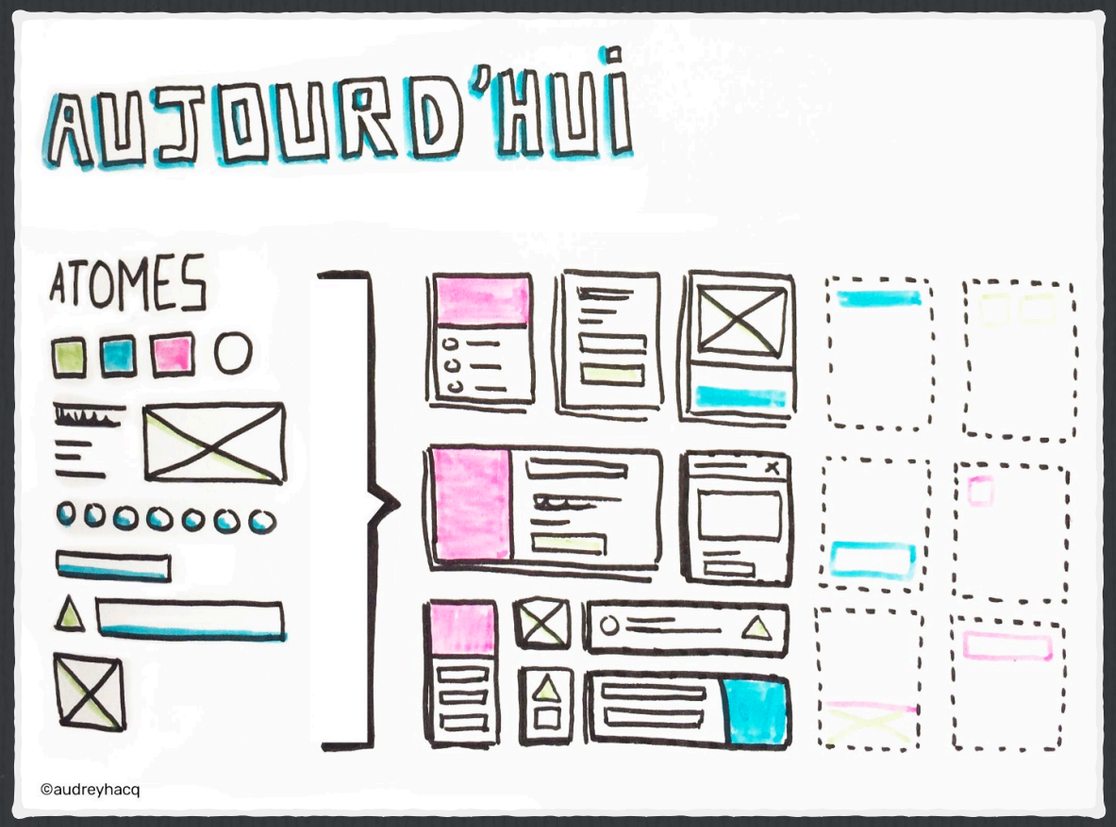
- Неважно, как они выглядят, важно, что они делают
- Теперь можно рисовать! Но на бумаге

Задание 2. Прототип

- Прототип будущего портала
- На бумаге
- * Можно смонтировать видео
- Не закапываться в детали внешнего вида
- Нарочно разделено, потому что HTML / CSS

UI Kit

UI Kit это конструктор



- UI Kit – подборка всех элементов дизайна
- Начинаем с атомов
- Строим компоненты
- Формируем страницы из кирпичиков

Зачем UI Kit

- Разделение UI и UX
- Проще асинхронно работать с дизайнером
- Библиотека “красивых” компонентов
- Фреймворки часто интегрированы с инструментами для дизайнеров

Как строить UI Kit

- [ ] Посмотреть на свой макет
- [ ] Выделить главные компоненты
- [ ] Понять, как они должны выглядеть
- [ ] UI Kit – отдельная страница

Как сделать красиво

- ☐ font-awesome, favicon иконки
- ☐ color triad, color schemes
- ☐ отступы
- ☐ шрифт
- ☐ не стыдно копировать то, что нравится

Пример UI Kit

Стили

Colors

Accents

Blue	Turquoise	Red	Orange	Yellow	Green
ACCENT	ACCENT	ACCENT	ACCENT	ACCENT	ACCENT
#515DC8	#1CC1BB	#EB5757	#F2994A	#F2C94C	#219653
#444EA8	#18A29D	#C54949	#CB813E	#CBA940	#1C7E46
#4B56B8	#1AB2AC	#D85050	#DF8D44	#DFB946	#1EBA4C
#5F6ACC	#2EC6C0	#ED6464	#F3A158	#F3CD5A	#339E61
#6D77D1	#40CBC6	#EE7272	#F4A967	#F4D269	#45A76F
#E3E5F6	#DAF5F4	#FCE4E4	#FDEEE2	#FDF6E2	#DBEEE3
#F1F2FB	#EDFAFA	#FDF2F2	#FEF7F1	#FEFBF1	#EDF7F1

Gradients

Blue	Turquoise	Red	Orange	Yellow	Green
GRADIENT	GRADIENT	GRADIENT	GRADIENT	GRADIENT	GRADIENT
75deg	75deg	75deg	75deg	75deg	75deg
#515DC8 0% #6666CC 100%	#1CC1BB 0% #54DED0 100%	#EB5757 0% #F4795E 100%	#F2994A 0% #FFC960 100%	#F2C94C 0% #FFE186 100%	#219653 0% #4AB668 100%

Duotones

Black	Charcoal	Gray	Gainsboro	Light gray	Silver
96% BLACK	88% BLACK	64% BLACK	40% BLACK	16% BLACK	6% BLACK
#0A0A0A	#1F1F1F	#5C5C5C	#999999	#D6D6D6	#F0F0F0

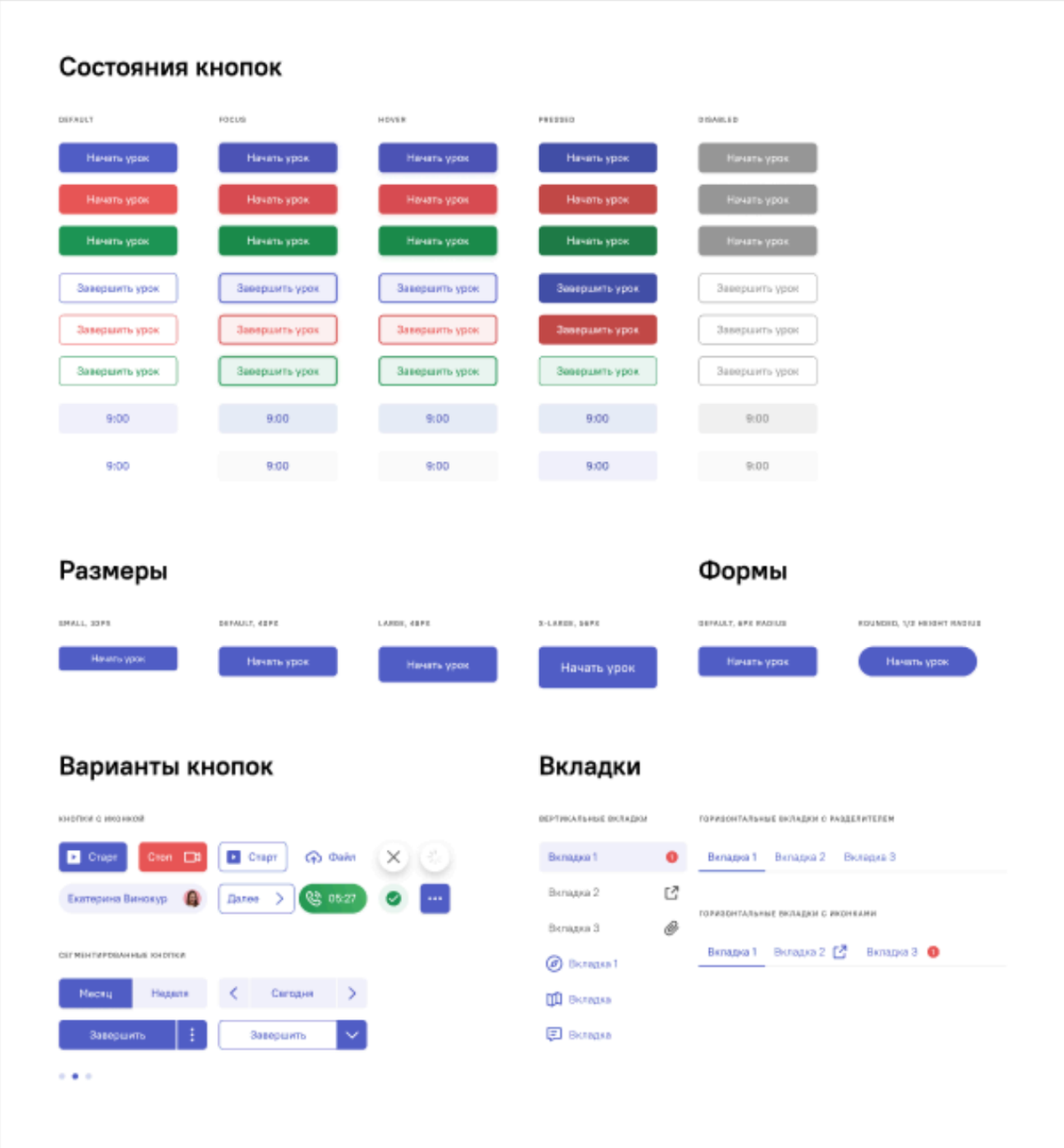
Mist	White
2% BLACK	0% BLACK
#FAFAFA	#FFFFFF

Misc

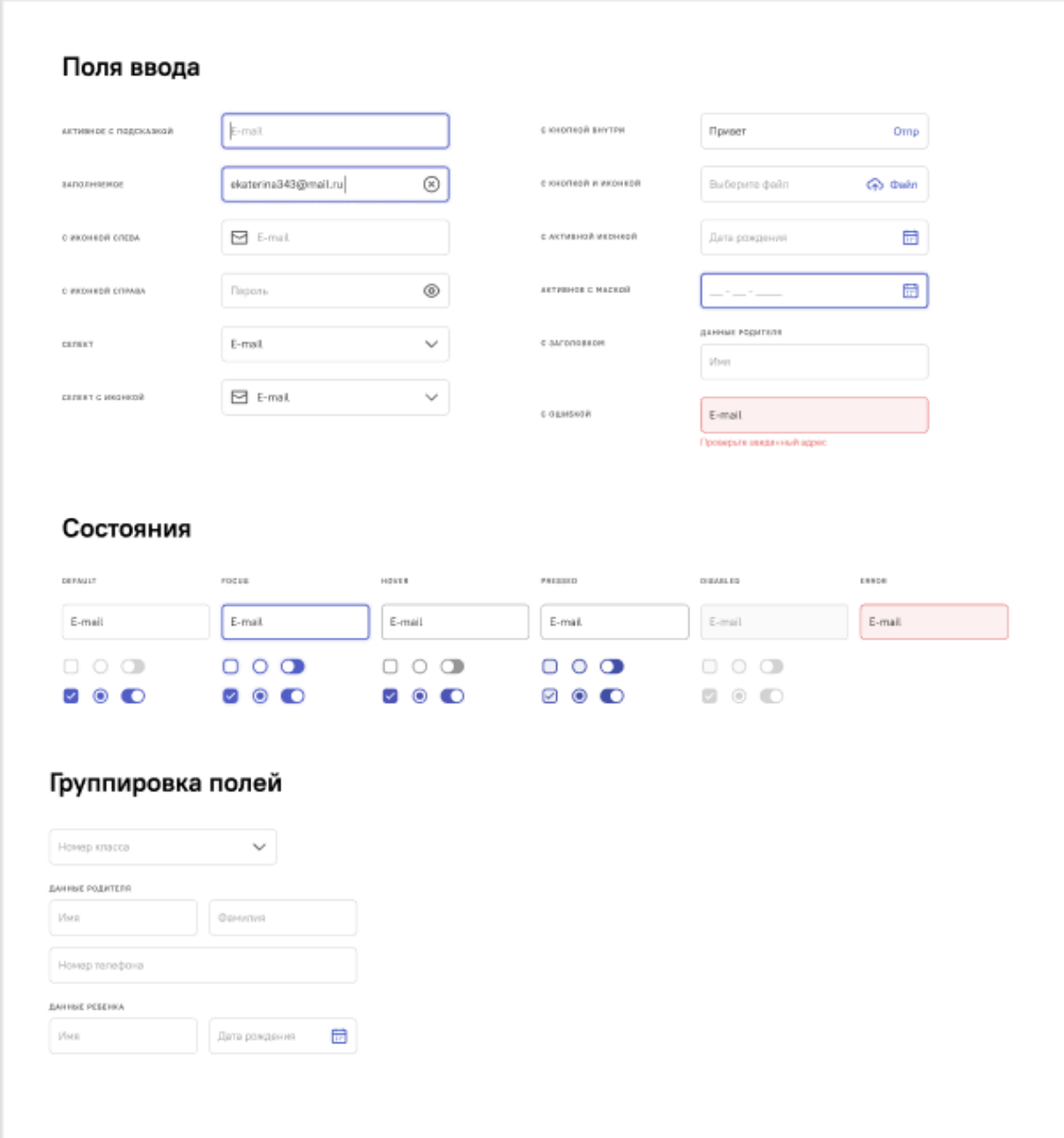
Blanket
MODAL WINDOW
#5A5A78 56%

Атомы

Buttons

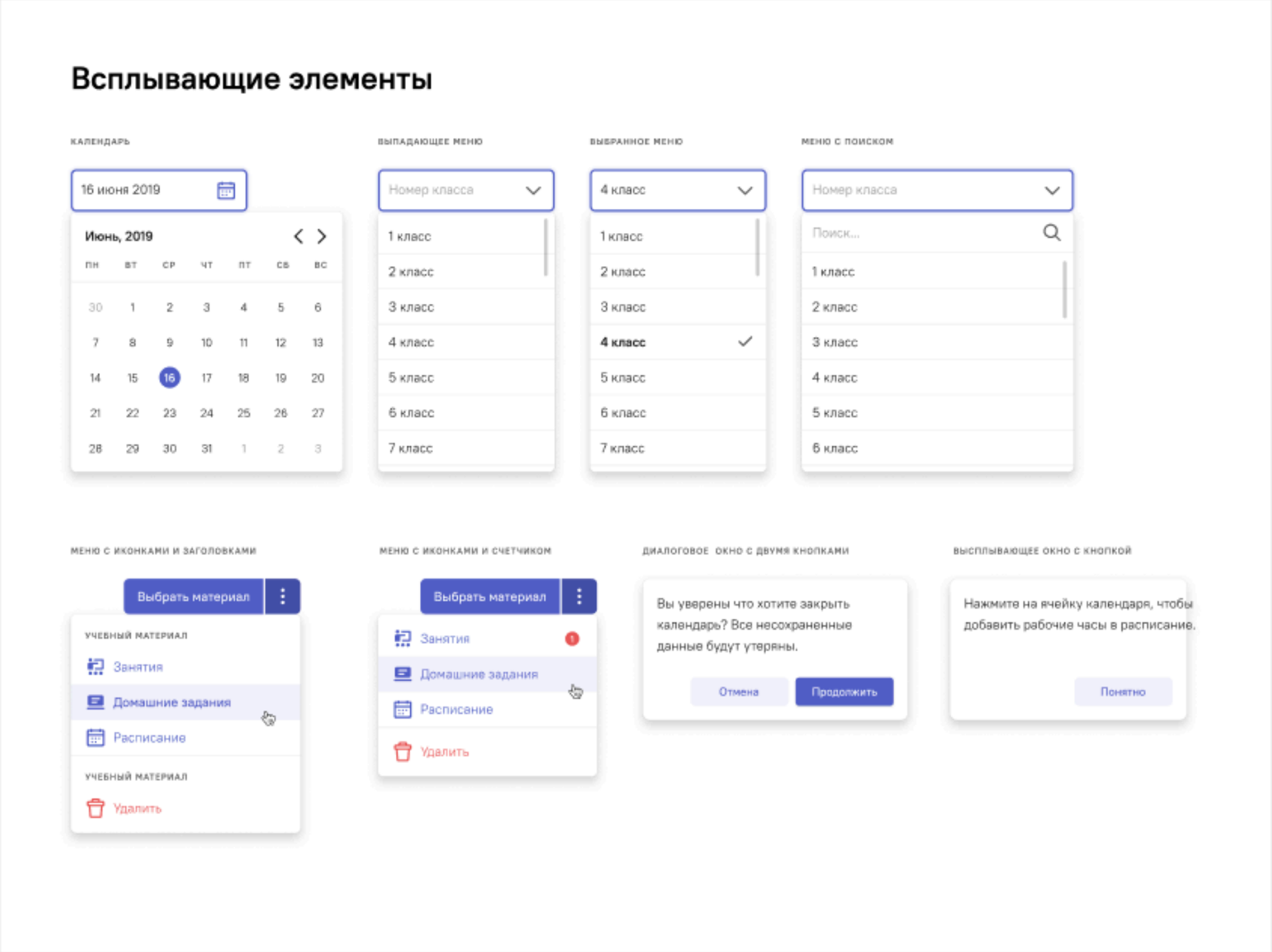


Inputs

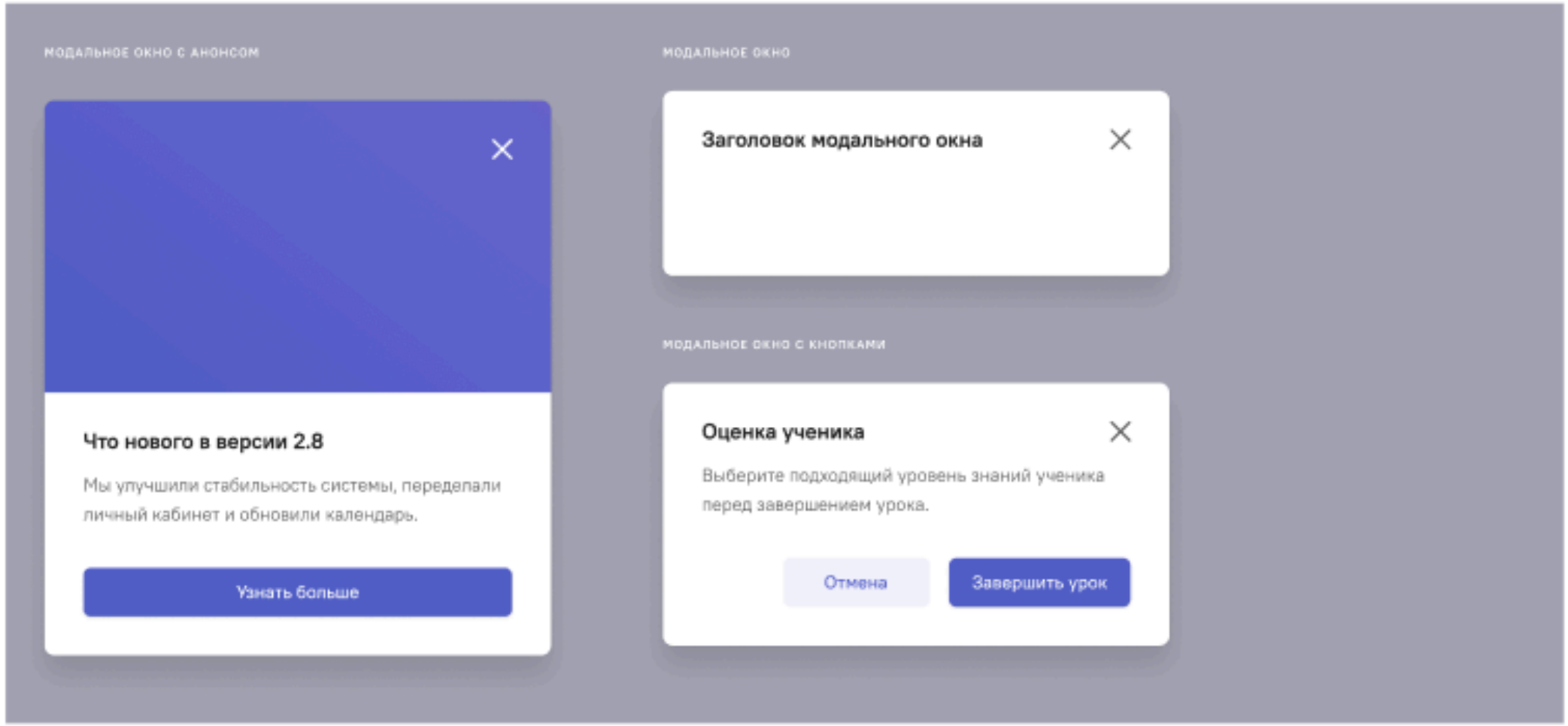


Компоненты

Overlays



Модальные окна



Задание 3. UI Kit

- [ ] Разрезать прототип на компоненты
- [ ] Разделить, кто какой берёт
- [ ] Продумать внешний вид отдельных компонентов
- [ ] Не думать о том, где они будут в странице

GOOD LUCK