



Google Developer Student Clubs

Frontend Session

#1 Orientation + HTML / CSS



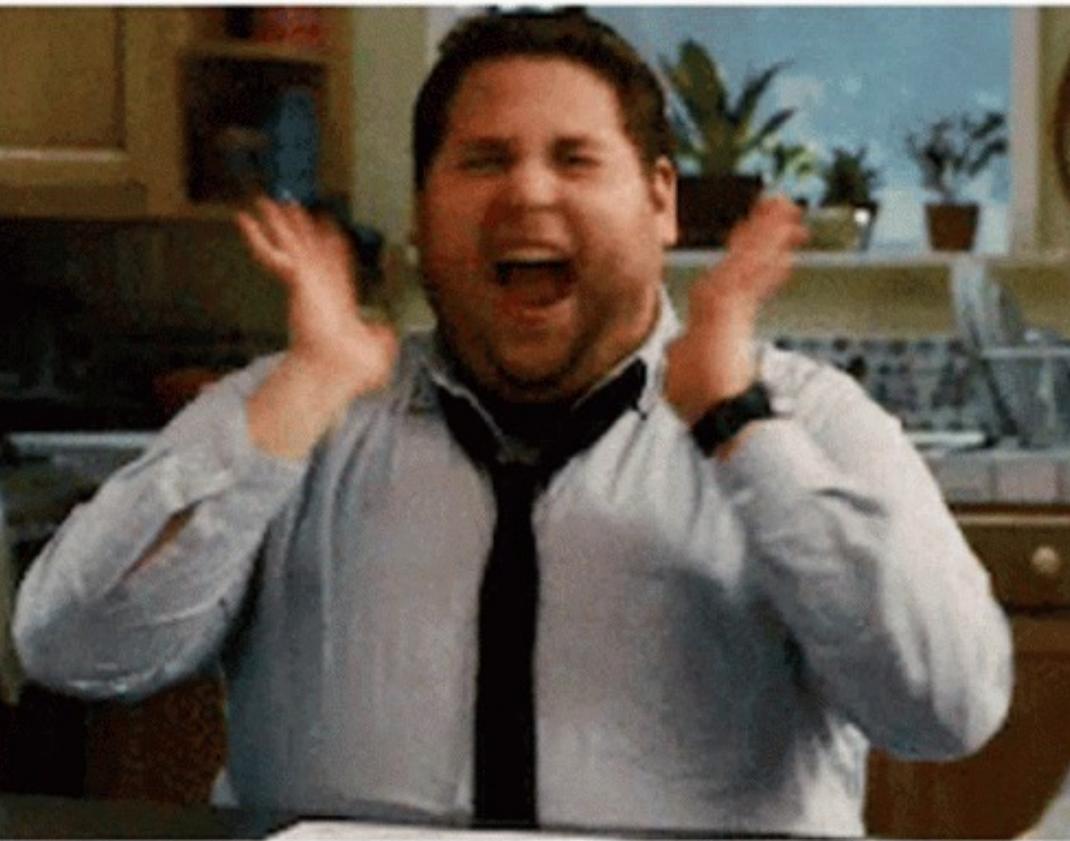
JINJAE KIM
jinjae.dev@gmail.com

```
const filterByOrg = study => study.organization === filterByOrg;
const filterStatus = filterByStatus ? study.status === filterByStatus : true;
const filterMatchStatus = filterMatchStatus ? study.status === filterMatchStatus : true;

function filterStudies({ studies, filterByOrg, filterByStatus, filterMatchStatus }) {
  return studies.filter(study => filterByOrg(study) & filterStatus(study) & filterMatchStatus(study));
}
```

00 Orientation

Welcome!



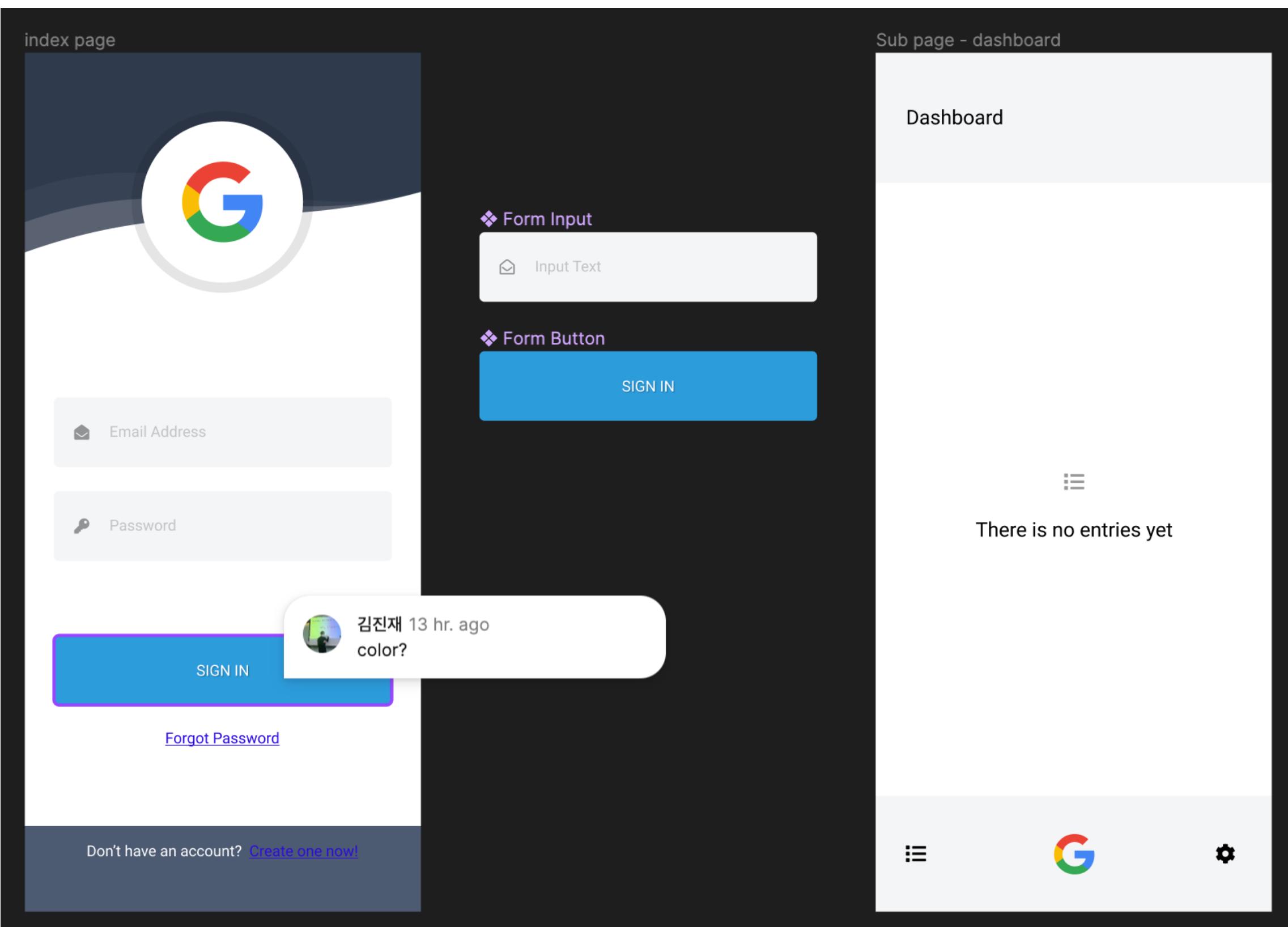
Curriculum

What do we learn?



Figma

UI / UX Design Tool



HTML / CSS

Web Publishing

The basic language of the website

&

design style sheets for the website

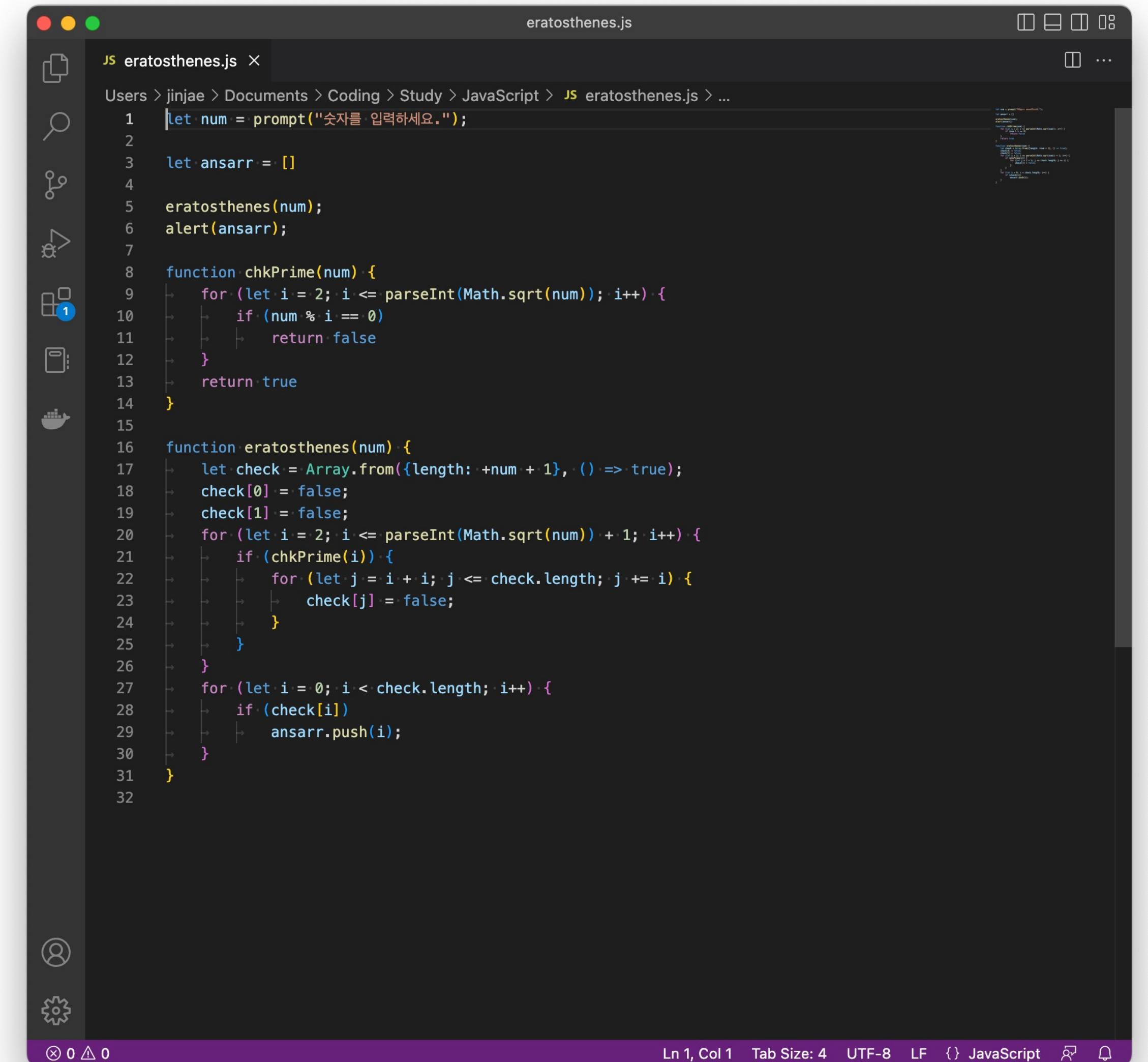
* Now Preparing!



JavaScript

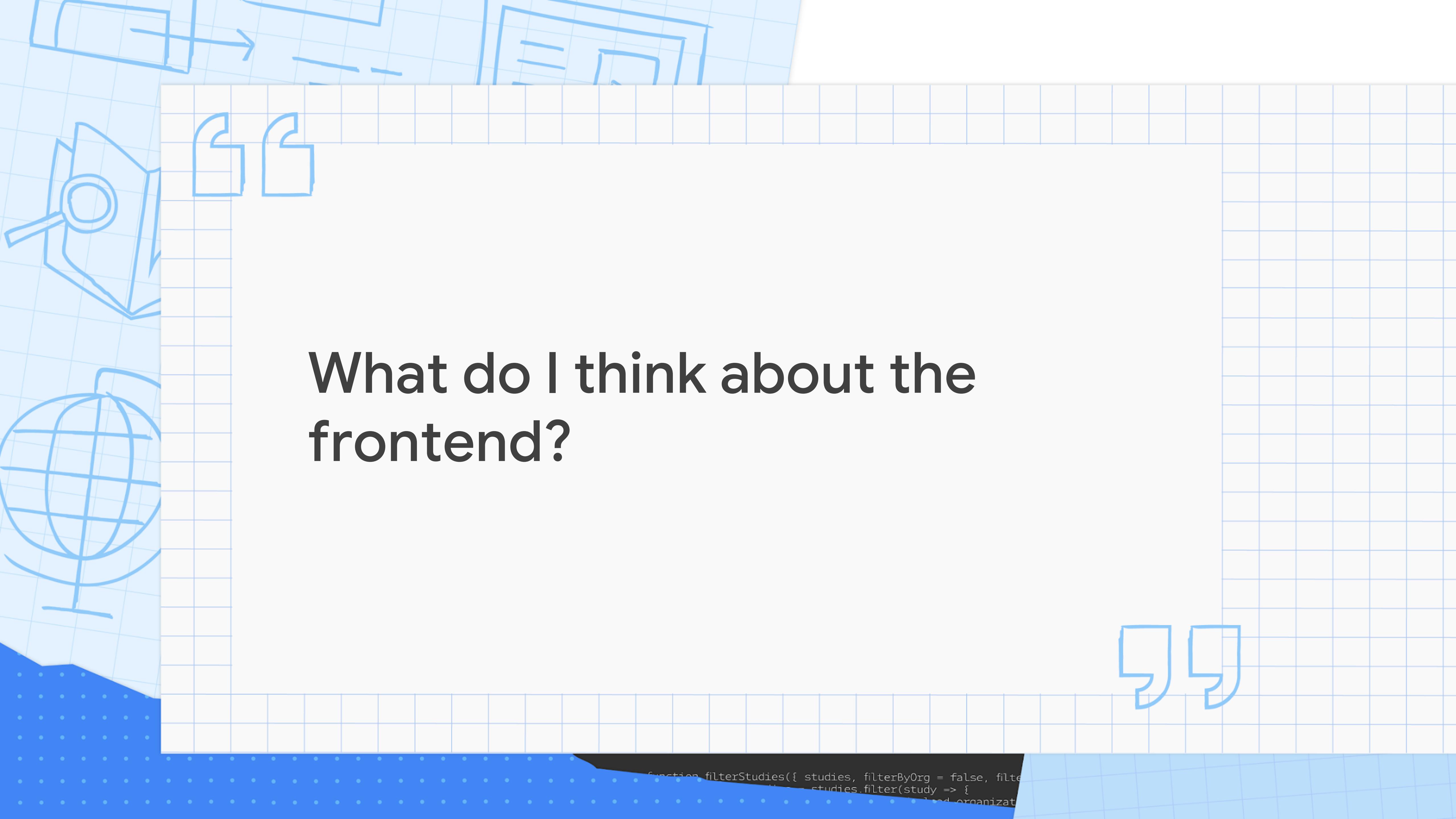
Basic interpreter language

Now widely used for websites, etc.



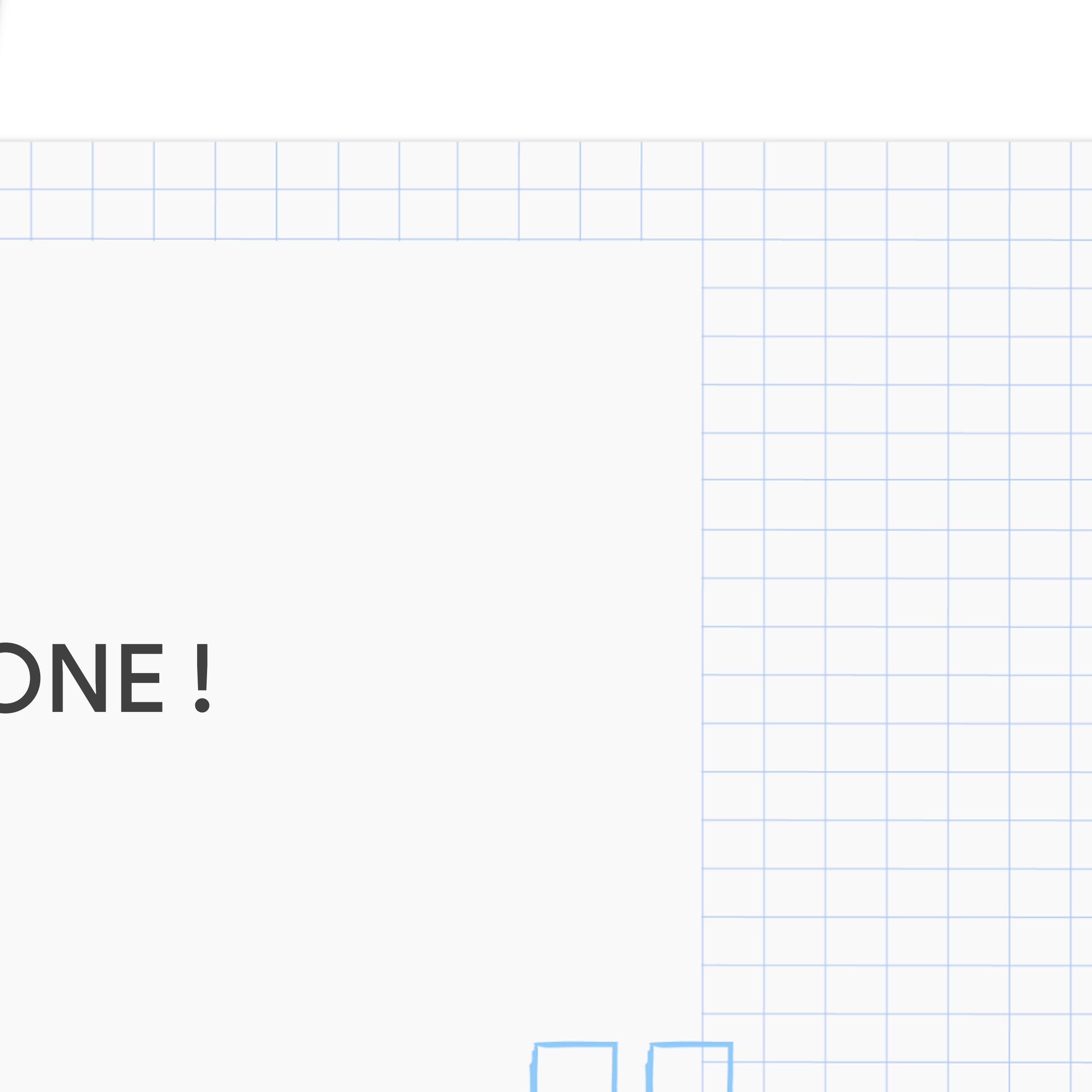
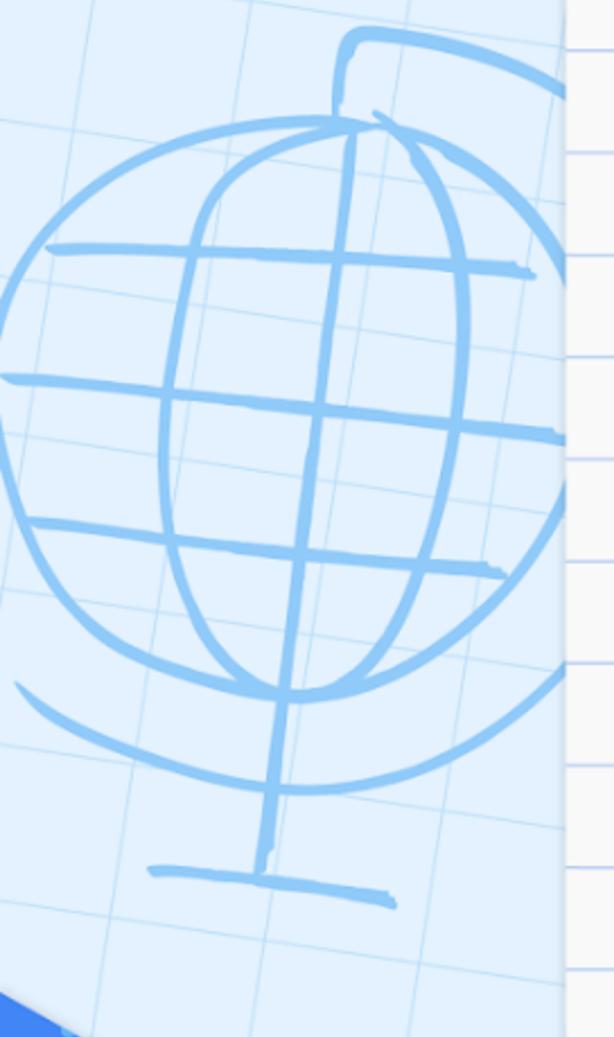
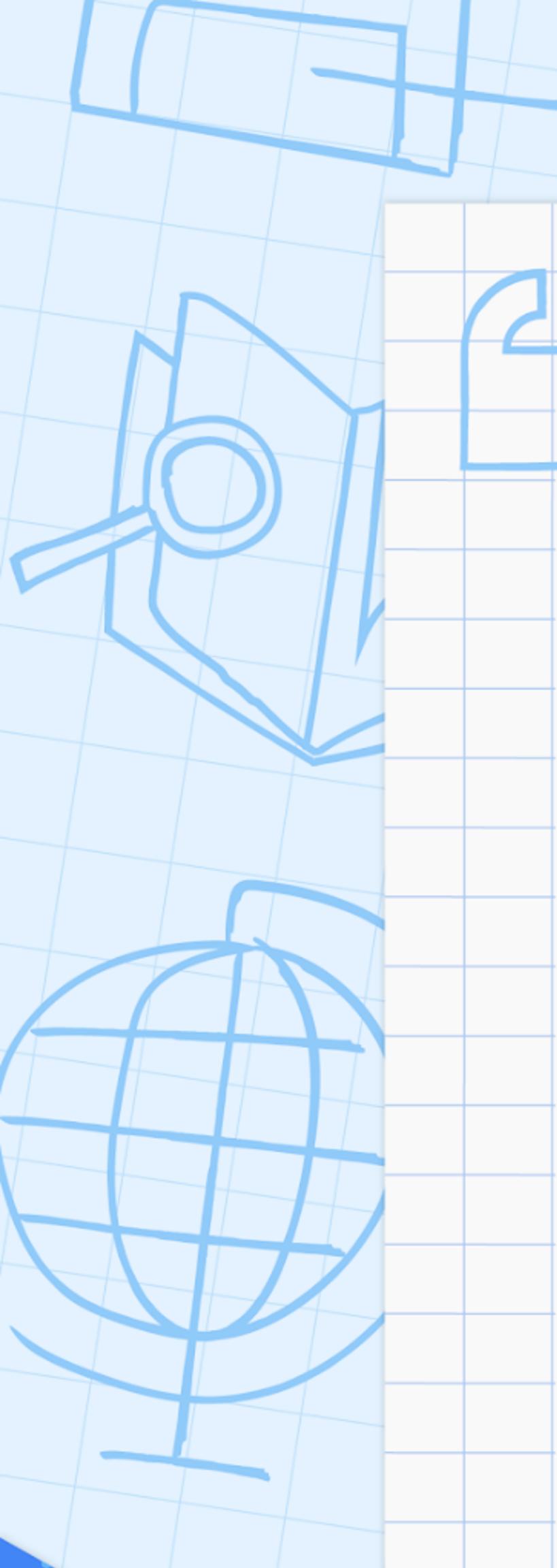
```
JS eratosthenes.js ×
Users > jinjaae > Documents > Coding > Study > JavaScript > JS eratosthenes.js > ...
1 let num = prompt("숫자를 입력하세요.");
2
3 let ansarr = []
4
5 eratosthenes(num);
6 alert(ansarr);
7
8 function chkPrime(num) {
9   for (let i = 2; i <= parseInt(Math.sqrt(num)); i++) {
10     if (num % i == 0)
11       return false
12   }
13   return true
14 }
15
16 function eratosthenes(num) {
17   let check = Array.from({length: +num + 1}, () => true);
18   check[0] = false;
19   check[1] = false;
20   for (let i = 2; i <= parseInt(Math.sqrt(num)) + 1; i++) {
21     if (chkPrime(i)) {
22       for (let j = i + i; j <= check.length; j += i) {
23         check[j] = false;
24       }
25     }
26   }
27   for (let i = 0; i < check.length; i++) {
28     if (check[i])
29       ansarr.push(i);
30   }
31 }
32
```

Ln 1, Col 1 Tab Size: 4 UTF-8 LF {} JavaScript



What do I think about the frontend?

```
function filterStudies({ studies, filterByOrg = false, filter }) {  
  if (!filter) return studies;  
  return studies.filter(study => {  
    const orgs = study.organizations || [];  
    if (filterByOrg) {  
      return orgs.length > 0;  
    } else {  
      return orgs.every(org => org.isApproved);  
    }  
  });  
}
```

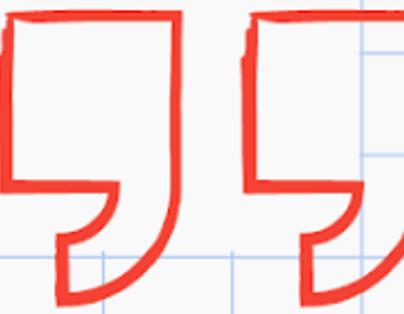


ZERO TO ONE !

```
function filterStudies({ studies, filterByOrg = false, filterByCategory = false }) {
  return studies.filter(study => {
    if (filterByCategory) {
      return study.categories.some(category => category.id === filterByCategory);
    }
    if (filterByOrg) {
      return study.organizations.some(organization => organization.id === filterByOrg);
    }
    return true;
  });
}
```

01 Figma

WHY?



```
function filterStudies({ studies, filterByOrg = false, filter }) {  
  if (!filter) return studies;  
  return studies.filter(study => {  
    const orgs = study.organizations || [];  
    if (filterByOrg) {  
      return orgs.length > 0;  
    } else {  
      return orgs.every(org => org.isApproved);  
    }  
  });  
}
```

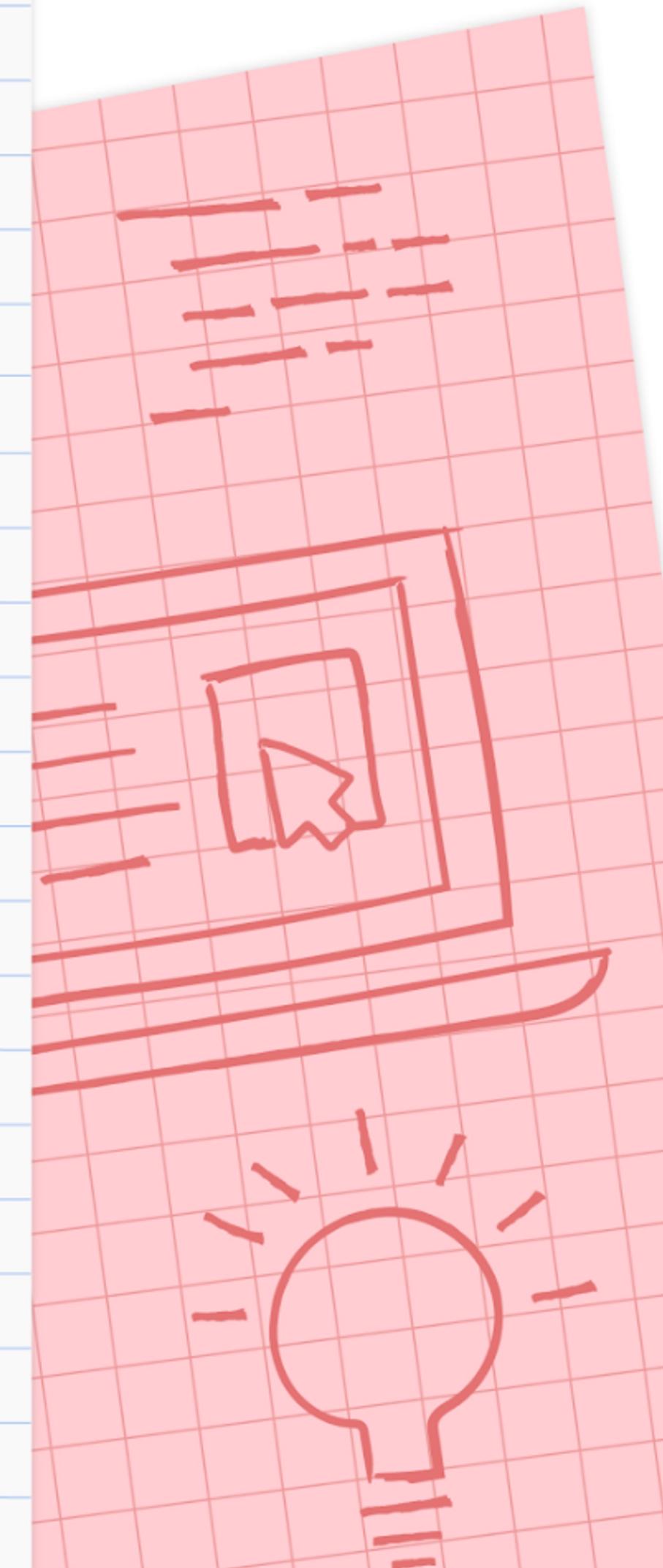
WHY?

Figma

Designer Collaboration

Design Sense

Understanding the Application Structure

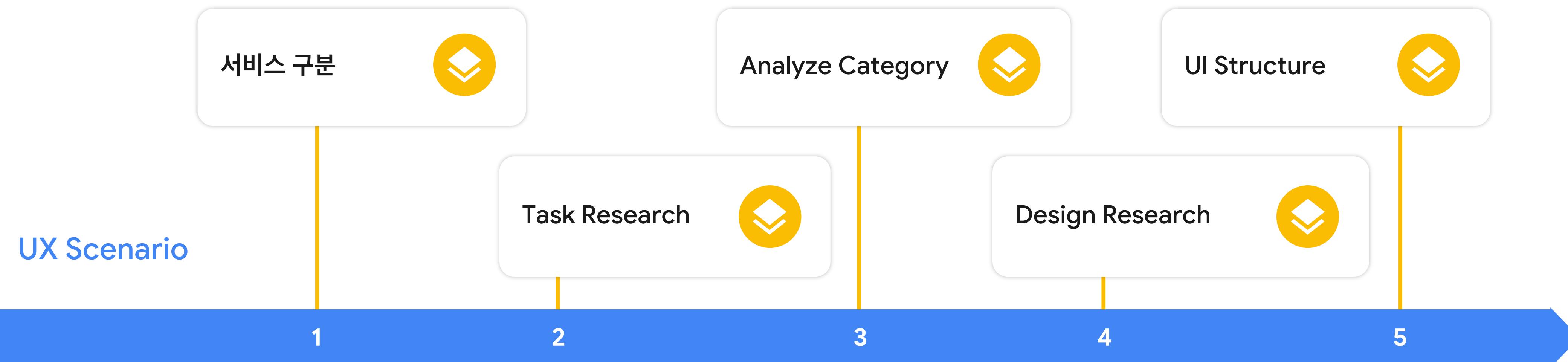


UX Scenario

```
function filterStudies({ studies, filterByOrg = false, filterByCategory = false }) {  
  if (filterByCategory) {  
    return studies.filter(study => {  
      return study.categories.some(category => category.id === filterByCategory);  
    });  
  } else if (filterByOrg) {  
    return studies.filter(study => {  
      return study.organizations.some(organization => organization.id === filterByOrg);  
    });  
  } else {  
    return studies;  
  }  
}
```

UX Scenario

UX Scenario Process



UX References

The screenshot shows a web browser window displaying the 99designs website. The header features a yellow banner with the text "The design styles you need to know... see our trends of 2023 →". Below the banner, the 99designs logo is on the left, followed by navigation links: "Get a design", "How it works", "Find a designer", "Inspiration", "Studio", and a phone number "1800 513 1678". The main content area has a large title "6 principles of visual hierarchy for designers" in bold black font. Below the title, a bio indicates the post was written by "Alex Bigman" 4 years ago, with a 9-minute read time. A sidebar on the right contains social media sharing icons for Facebook, Twitter, Pinterest, LinkedIn, and a plus sign for more options. The main text begins with: "First there were stone tablets, papyrus scrolls and paper. Then came computer screens and electronic tablets. As the technology to display a page evolves, it remains the designer's job to arrange the content clearly. *But what's the best way?* In short, visual hierarchy." A small note at the bottom says "Here's a definition of visual hierarchy: Visual hierarchy is the".



App Design (Figma)

```
function filterStudies({ studies, filterByOrg = false, filterByCategory = false }) {  
  return studies.filter(study => {  
    if (filterByCategory) {  
      return study.categories.some(category => category.id === filterByCategory);  
    }  
    if (filterByOrg) {  
      return study.organizations.some(organization => organization.id === filterByOrg);  
    }  
    return true;  
  });  
}
```

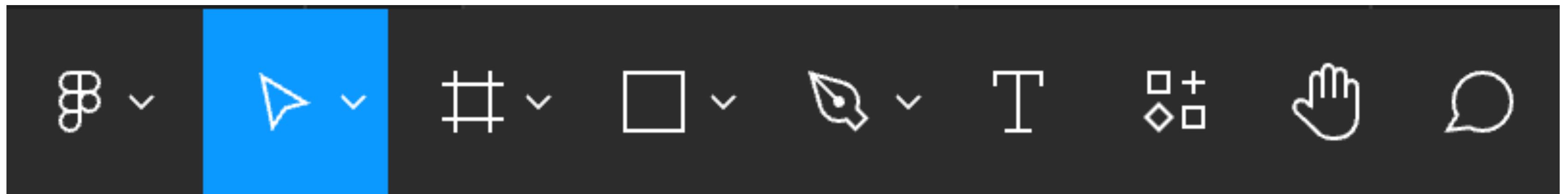
Pros

Pros of Figma

- Manage History
 - Auto save & Manage History
- Collaboration-friendly
- Prototyping

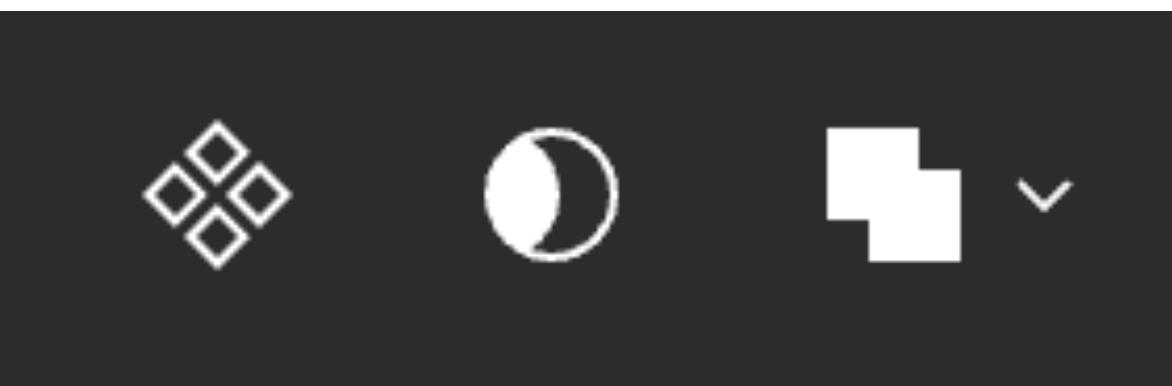
Menu

Menu Tools



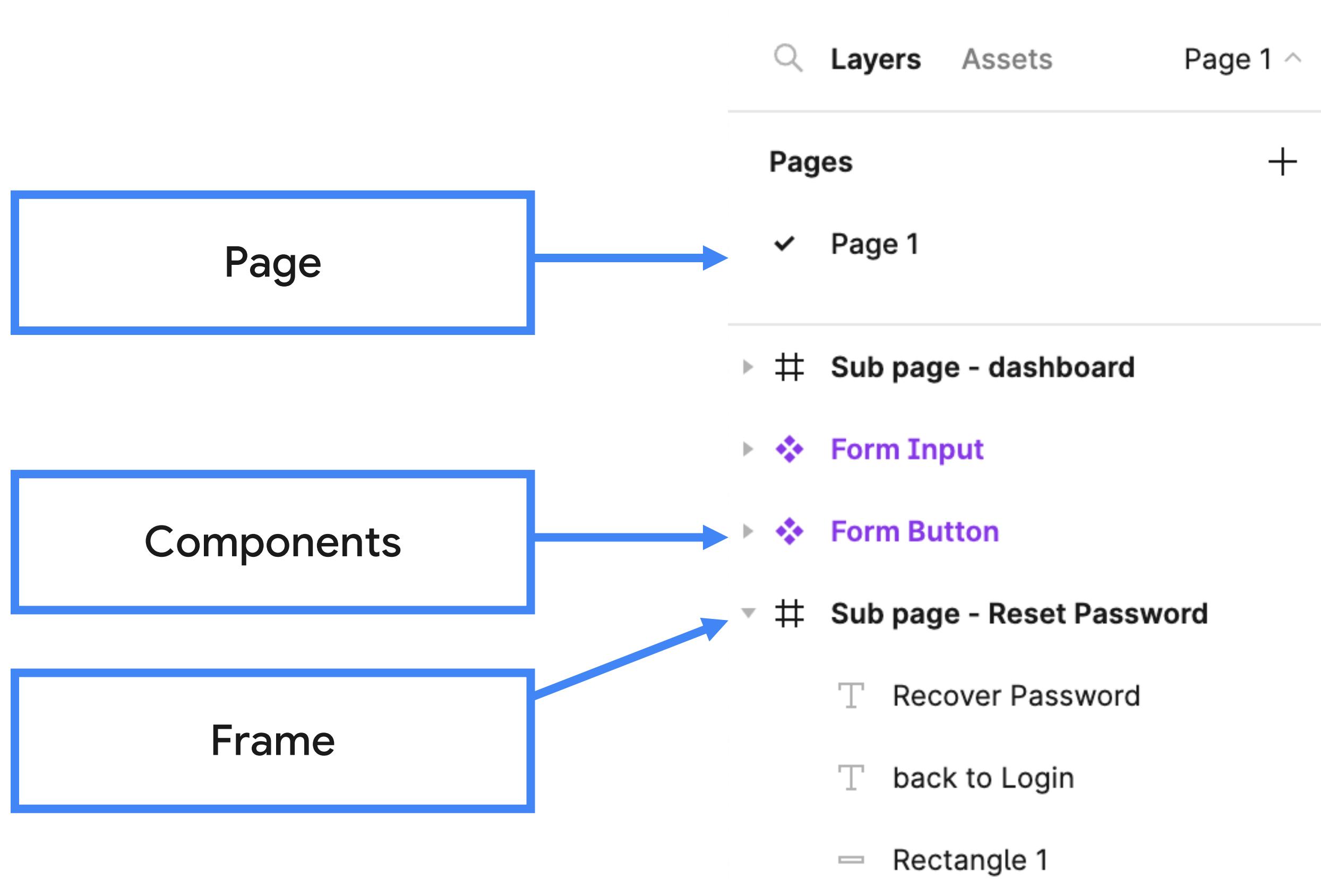
Menu

Menu Tools



Menu

Layers & Assets

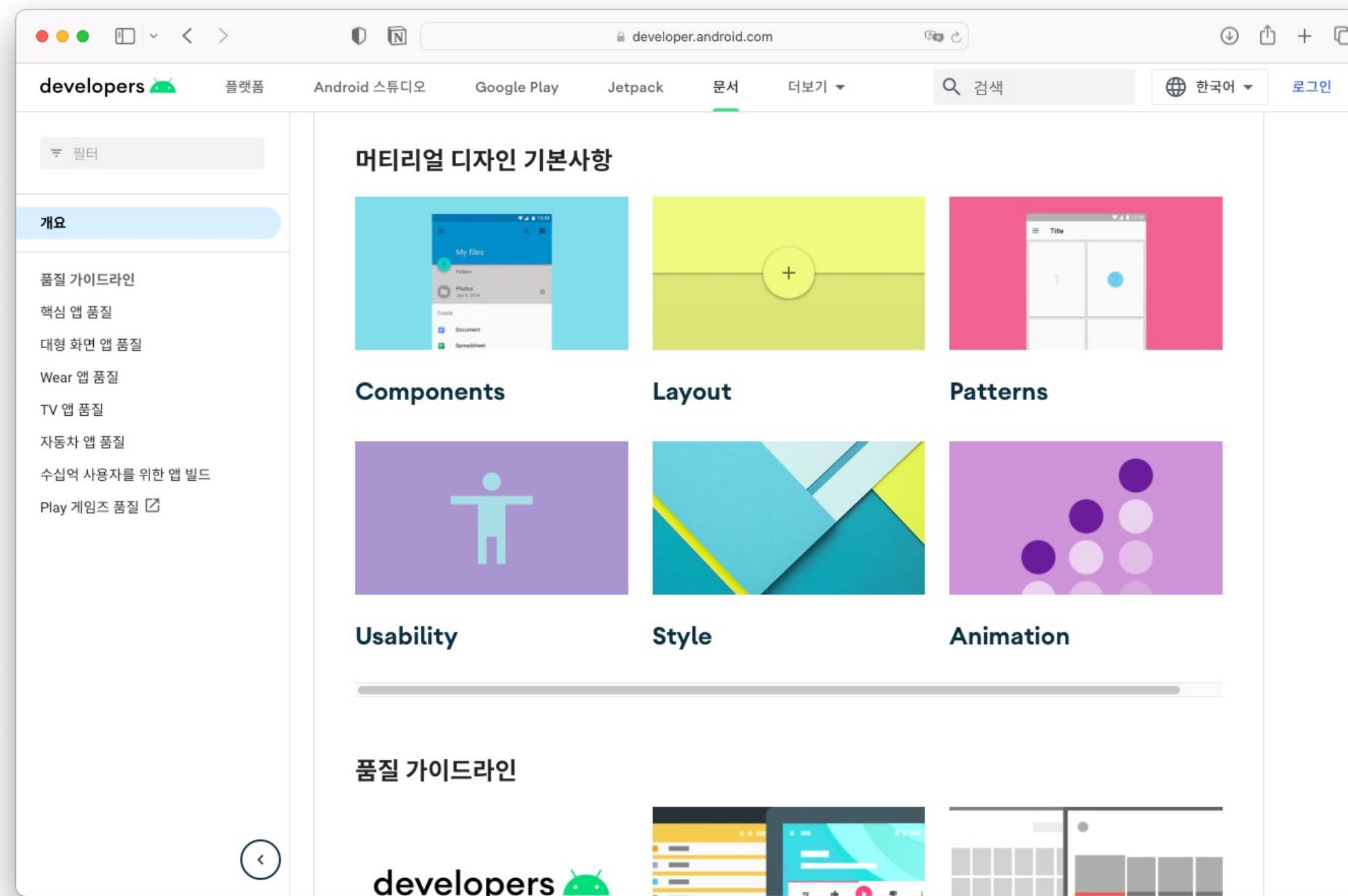


References

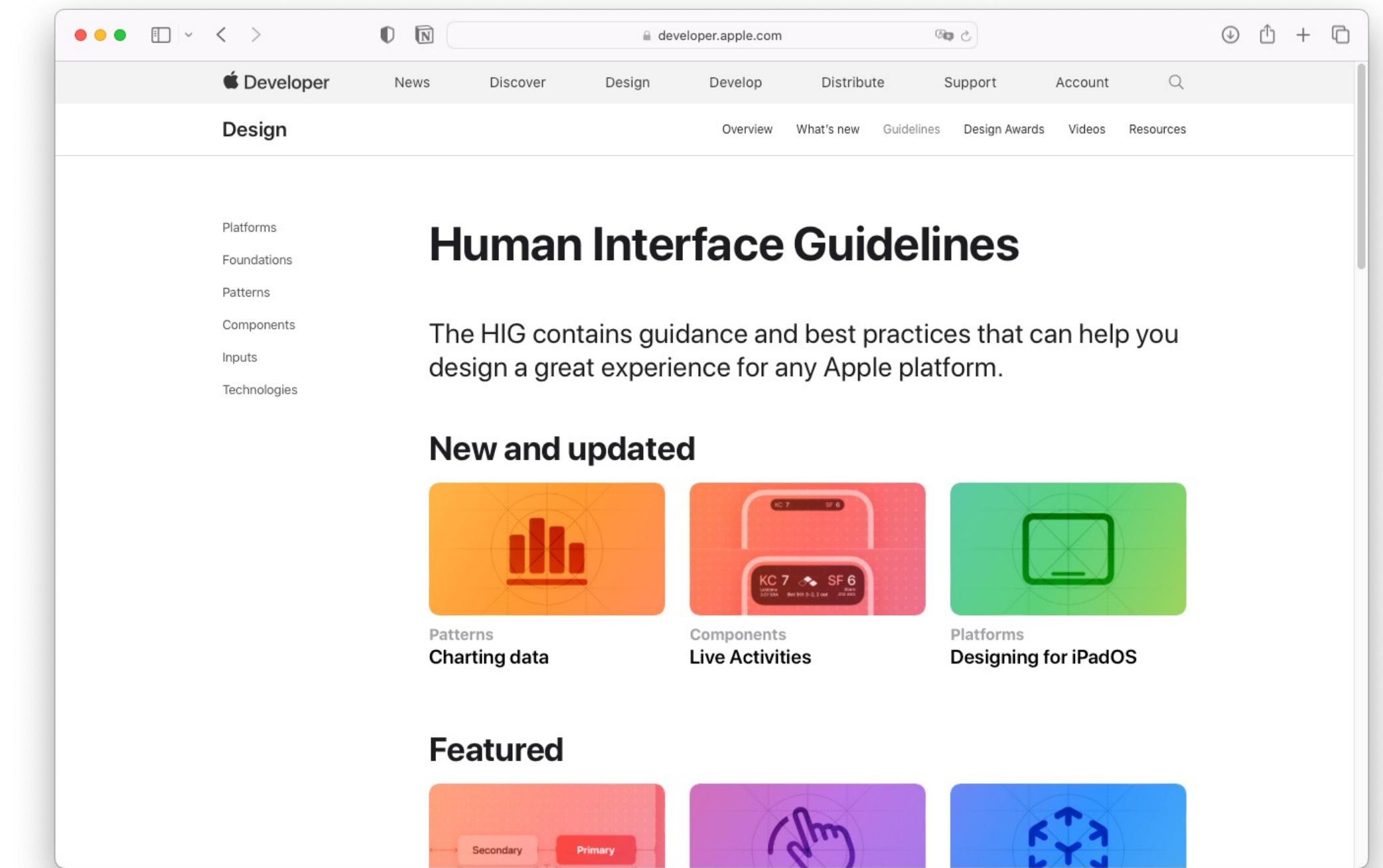
```
function filterStudies({ studies, filterByOrg = false, filterByCategory = false }) {
  return studies.filter(study => {
    if (filterByCategory) {
      return study.categories.some(category => category.id === filterByCategory)
    }
    if (filterByOrg) {
      return study.organizations.some(organization => organization.id === filterByOrg)
    }
    return true
  })
}
```

Some Useful Sites

RTFM!



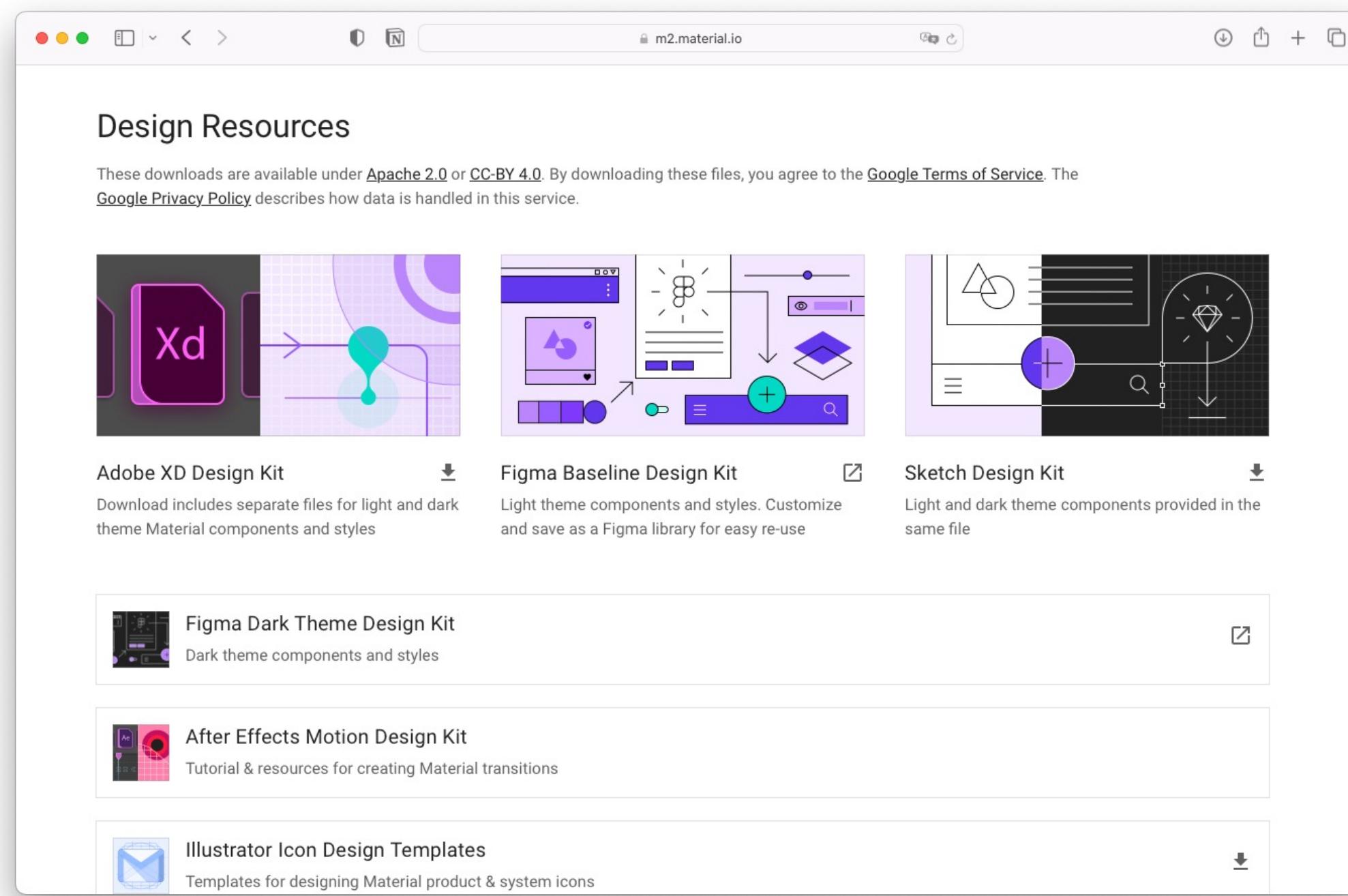
<https://developer.android.com/design>



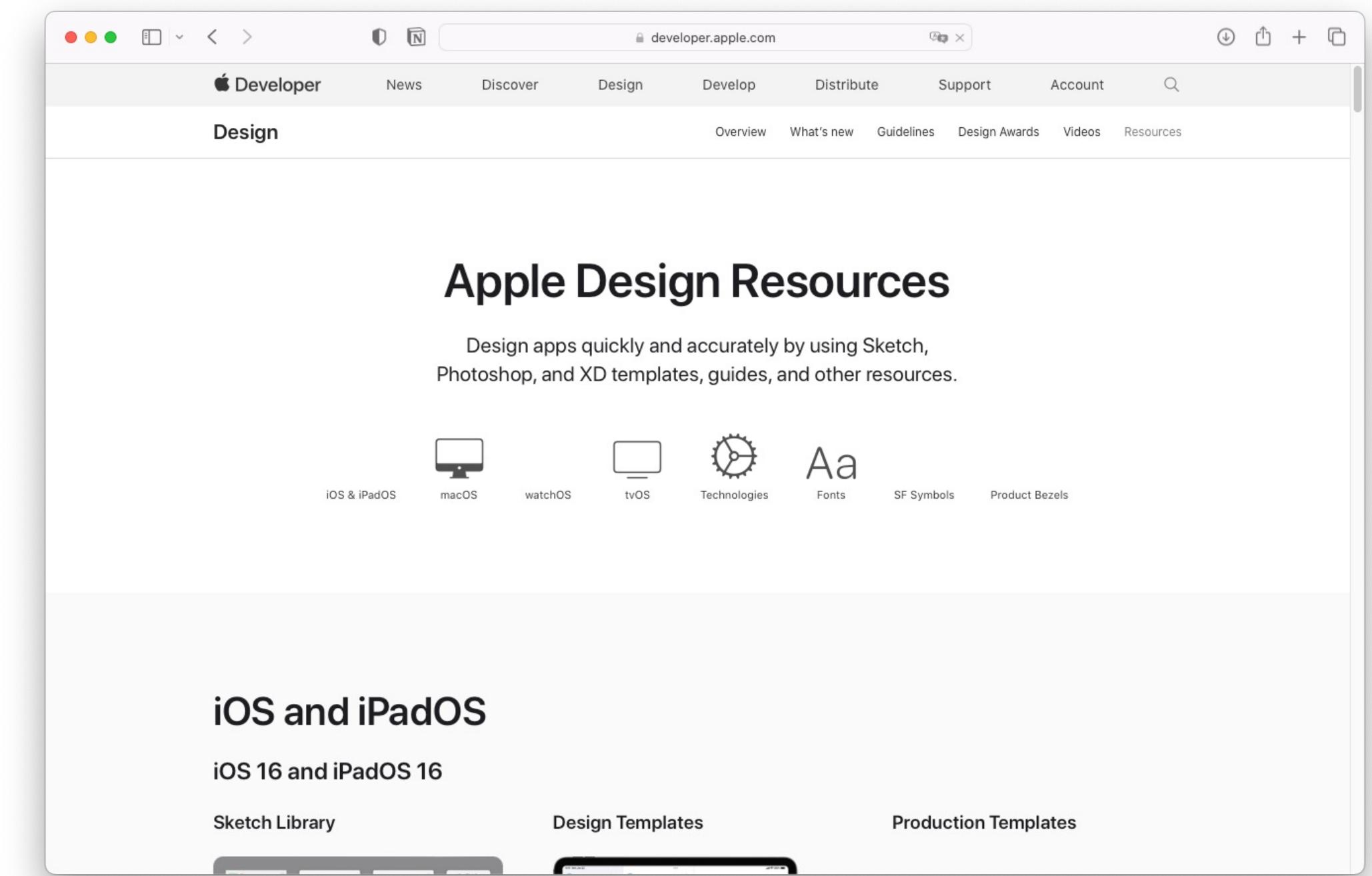
<https://developer.apple.com/design/human-interface-guidelines/guidelines/overview>

Some Useful Sites

UI Kit



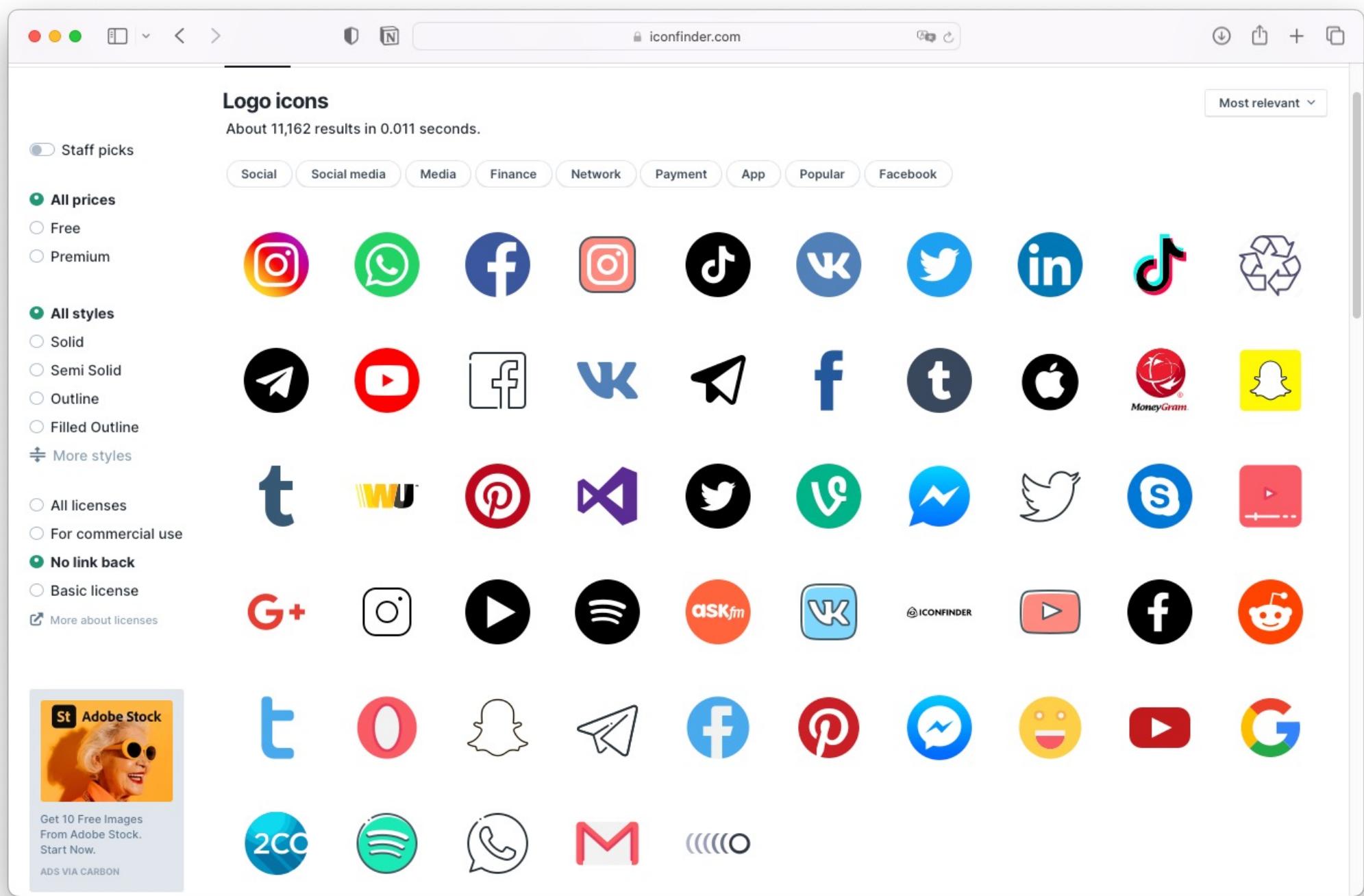
<https://m2.material.io/resources>



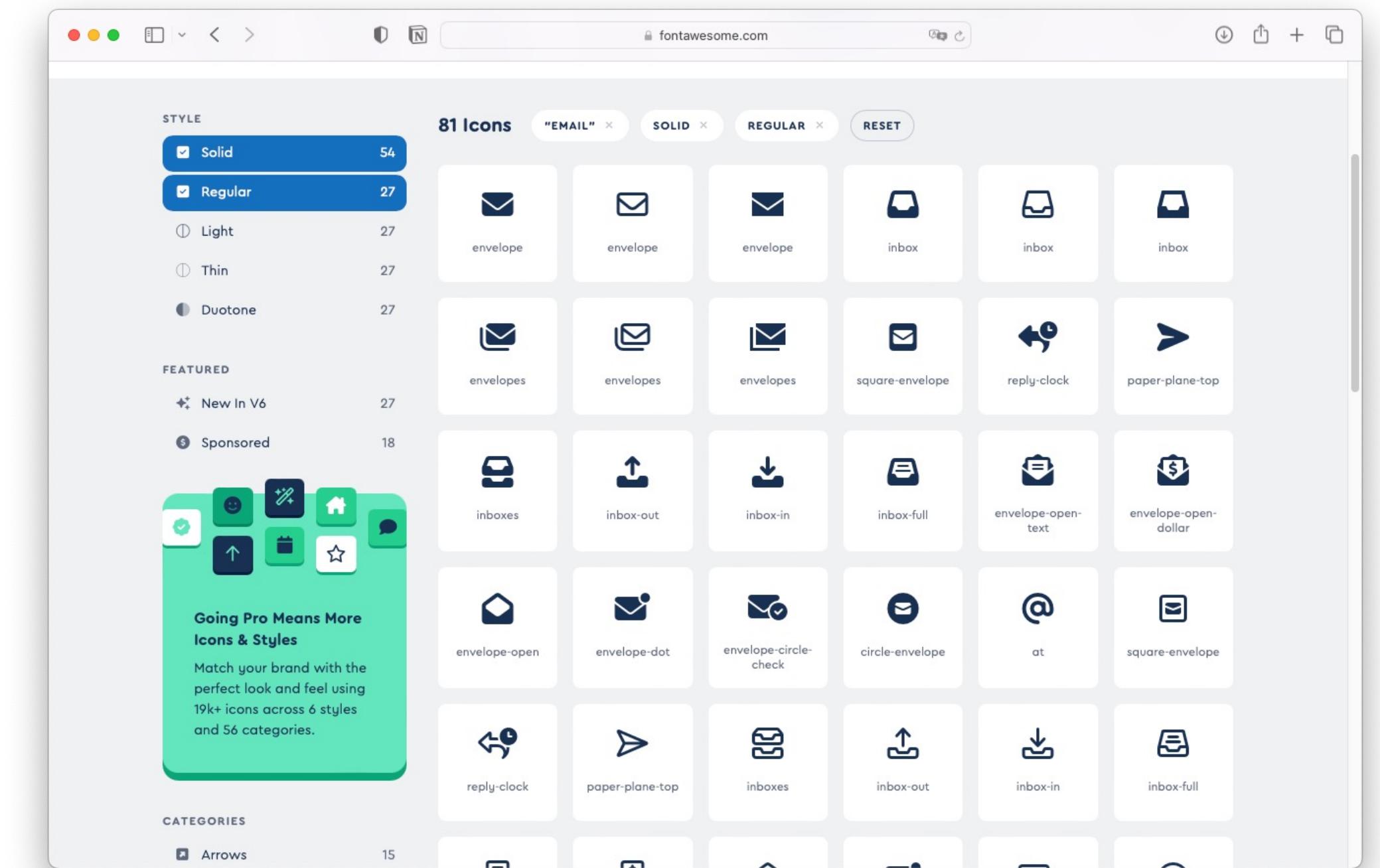
<https://developer.apple.com/design/resources>

Some Useful Sites

Logo & Icons



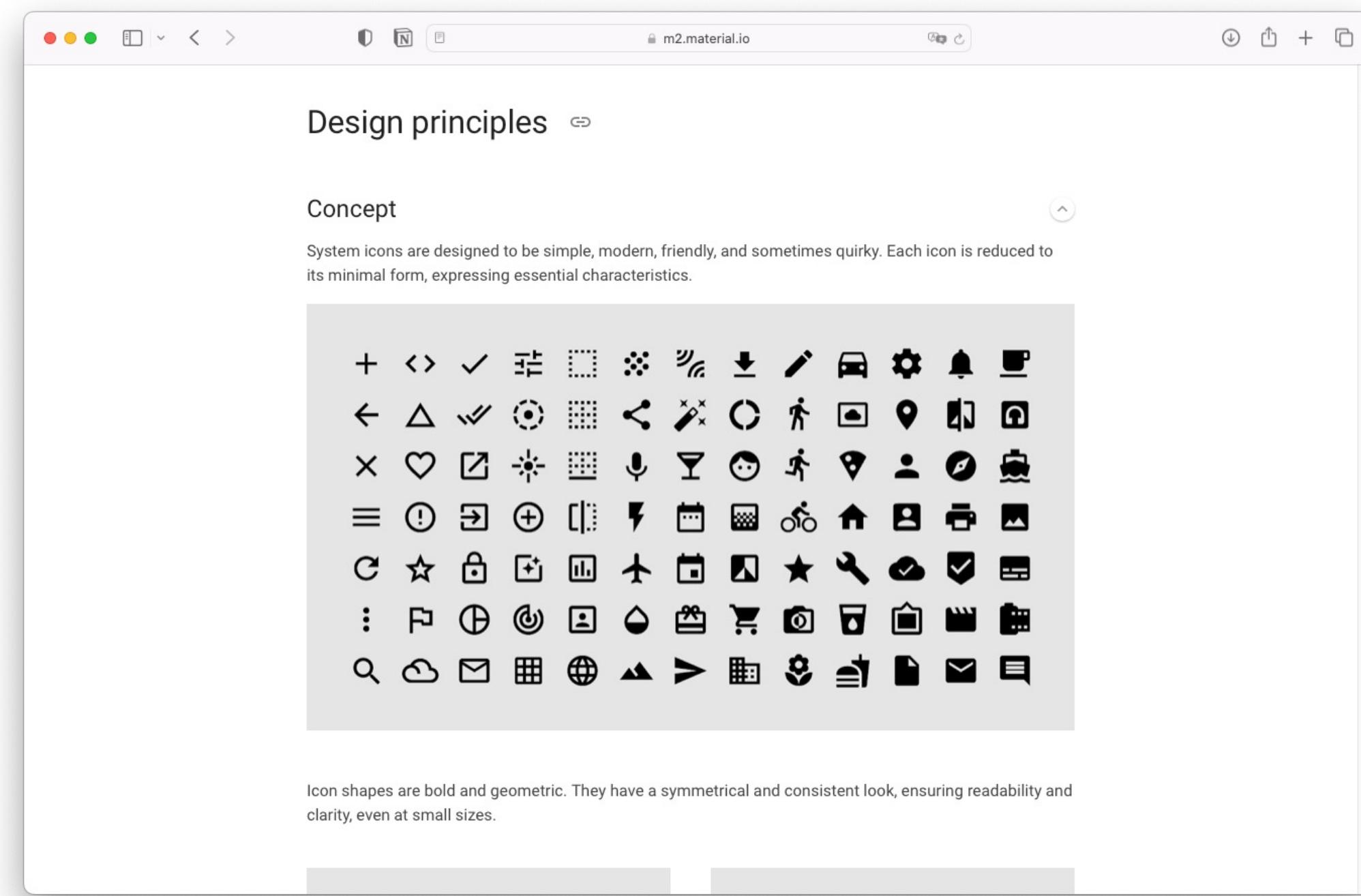
<https://www.iconfinder.com>



<https://fontawesome.com>

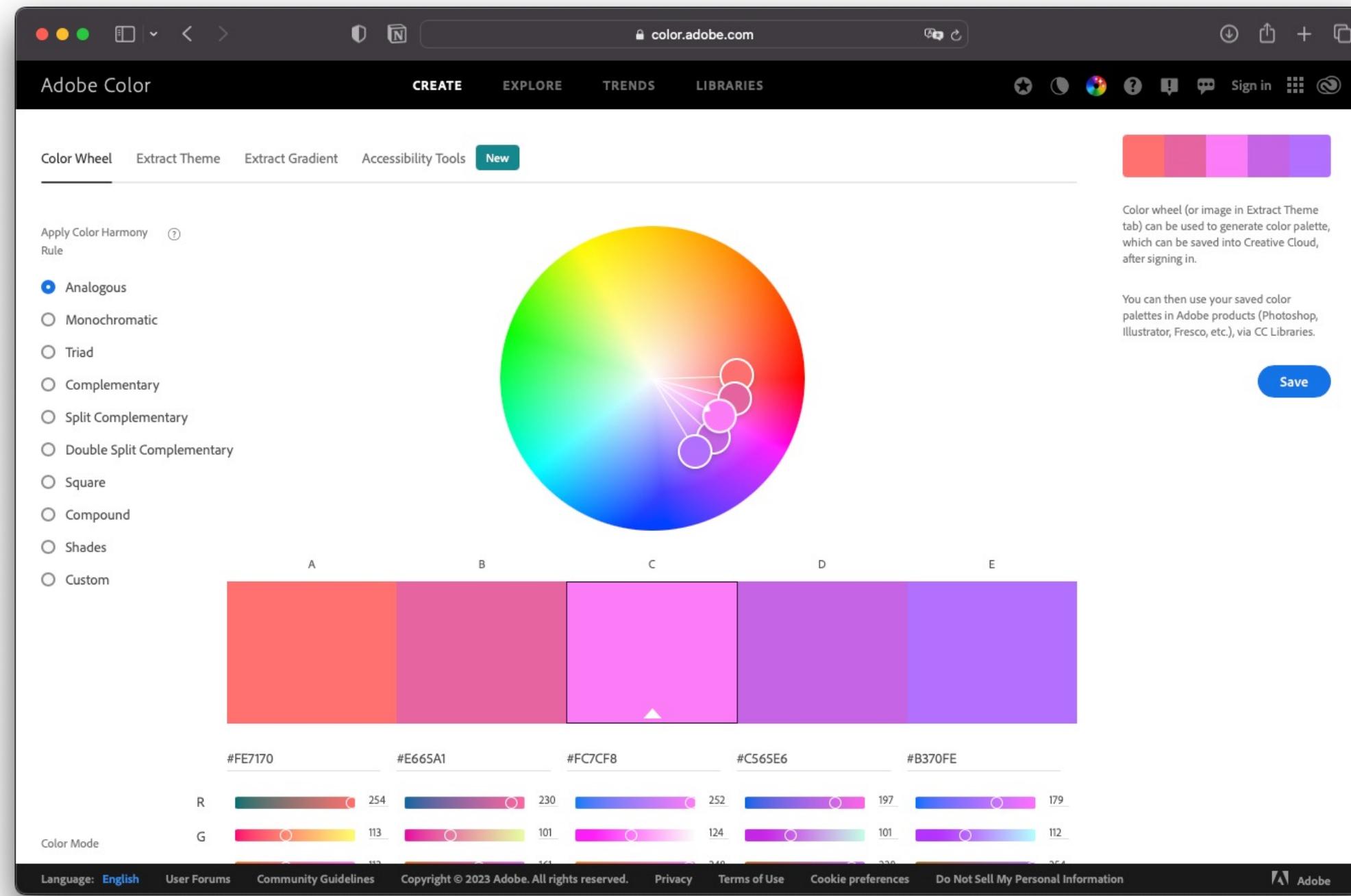
Some Useful Sites

System Icon



And One More Thing!

Design Sense



<https://color.adobe.com>

- <https://dribbble.com>
- <https://www.behance.net>
- <https://www.designspiration.com>
- <https://notefolio.net>
- <https://cargo.site>

03 HTML

References

Self HTML Study

<https://github.com/jin-jae/HTML-Study>



Introducing HTML

```
function filterStudies({ studies, filterByOrg = false, filterByTitle = false }) {  
  return studies.filter(study => {  
    if (filterByOrg) {  
      return study.org === 'Google' || study.org === 'Facebook';  
    }  
    if (filterByTitle) {  
      return study.title === 'Deep Dive into Machine Learning' || study.title === 'Building a Large-Scale Machine Learning System';  
    }  
    return true;  
  });  
}
```

HyperText Markup Language

What is it?

HyperText

Markup

Language

Web page
link-based

Markup Grammar
Based

Protocols

Tags & Attributes

```
function filterStudies({ studies, filterByOrg = false, filterByCategory = false }) {
  return studies.filter(study => {
    if (filterByCategory) {
      return study.categories.some(category => category.id === filterByCategory);
    }
    if (filterByOrg) {
      return study.organizations.some(organization => organization.id === filterByOrg);
    }
    return true;
  });
}
```

Open Tag & Close Tag



Starts the tag

Tags

Ends the tag



Texts



Tags can have Attributes!

< a > tag

```
<a href=http://www.example.com title="Example">Example Site</a>
```



```
<html>
<!--This indicates that this is an HTML document.-->
  <head>
<!--    tags that contain additional information will be here.-->
  </head>
  <body>
<!--    tags that contain main contents will be here-->
  </body>
</html>
```

Main Tags

Related to Title

- <h1>
- <h2>
- <h3>



Main Tags

Related to List

-

-

-

-



Information Tags

Only deliver information!

- <title>
- <header>
- <nav>
- <aside>
- <footer>

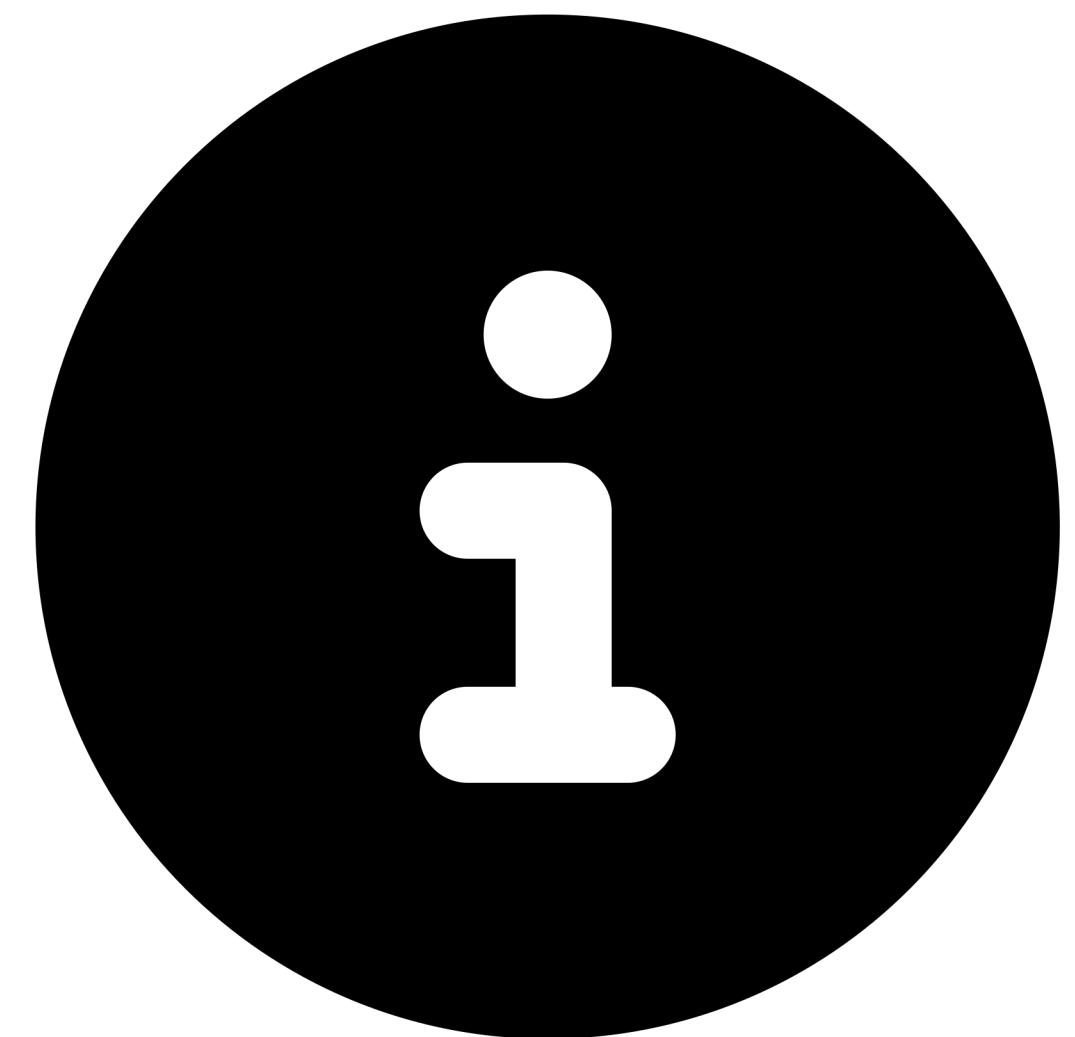


Philosophical Insights

```
function filterStudies({ studies, filterByOrg = false, filterByCategory = false }) {
  return studies.filter(study => {
    if (filterByCategory) {
      return study.categories.some(category => category.id === filterByCategory);
    }
    if (filterByOrg) {
      return study.organizations.some(organization => organization.id === filterByOrg);
    }
    return true;
  });
}
```

The purpose of HTML

What should it deliver?



04 CSS

Introducing CSS

```
function filterStudies({ studies, filterByOrg = false, filterByCategory = false }) {  
  if (filterByCategory) {  
    return studies.filter(study => {  
      const category = study.categories[0];  
      return category === filterByCategory || category === 'All';  
    });  
  } else if (filterByOrg) {  
    return studies.filter(study => {  
      const org = study.organizations[0];  
      return org === filterByOrg || org === 'All';  
    });  
  } else {  
    return studies;  
  }  
}
```

Cascading Style Sheet

What is it?

Cascading

Style

Sheet

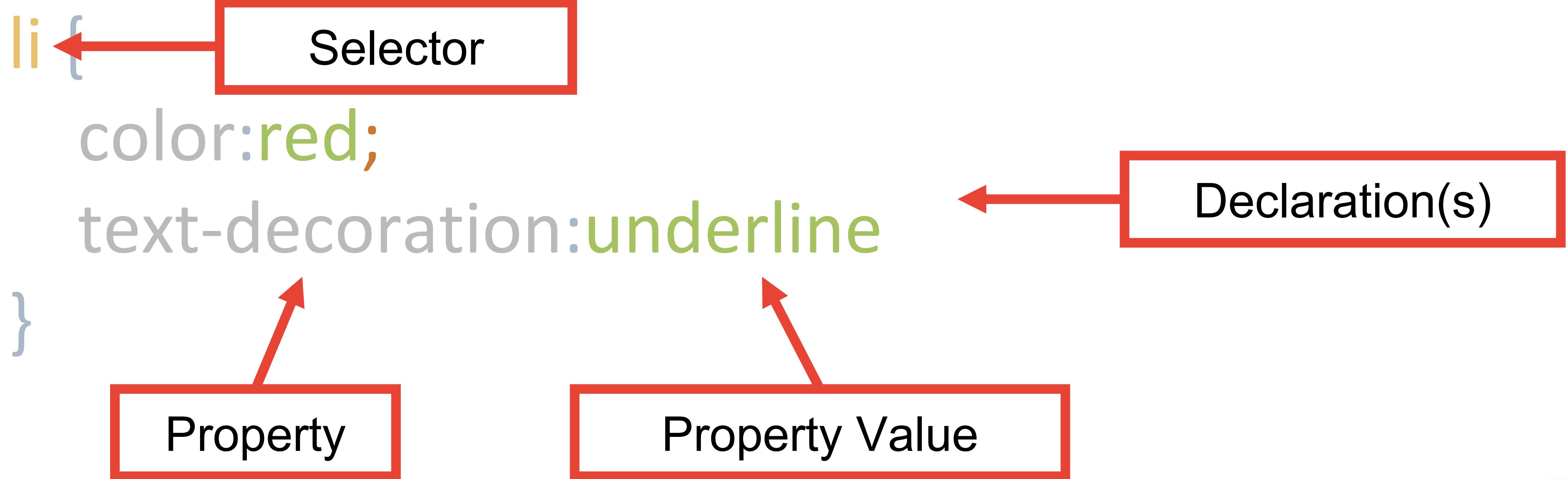
Styles are
inherited

Writes about
Styles

Something(Styles)
Written Sheets

Cascading Style Sheet

Basic forms



Selector & Property

```
function filterStudies({ studies, filterByOrg = false, filterByTitle = false }) {
  return studies.filter(study => {
    if (filterByOrg) {
      return study.organizations.some(org => org.id === filterByOrg)
    }
    if (filterByTitle) {
      return study.title === filterByTitle
    }
    return true
  })
}
```

Selector

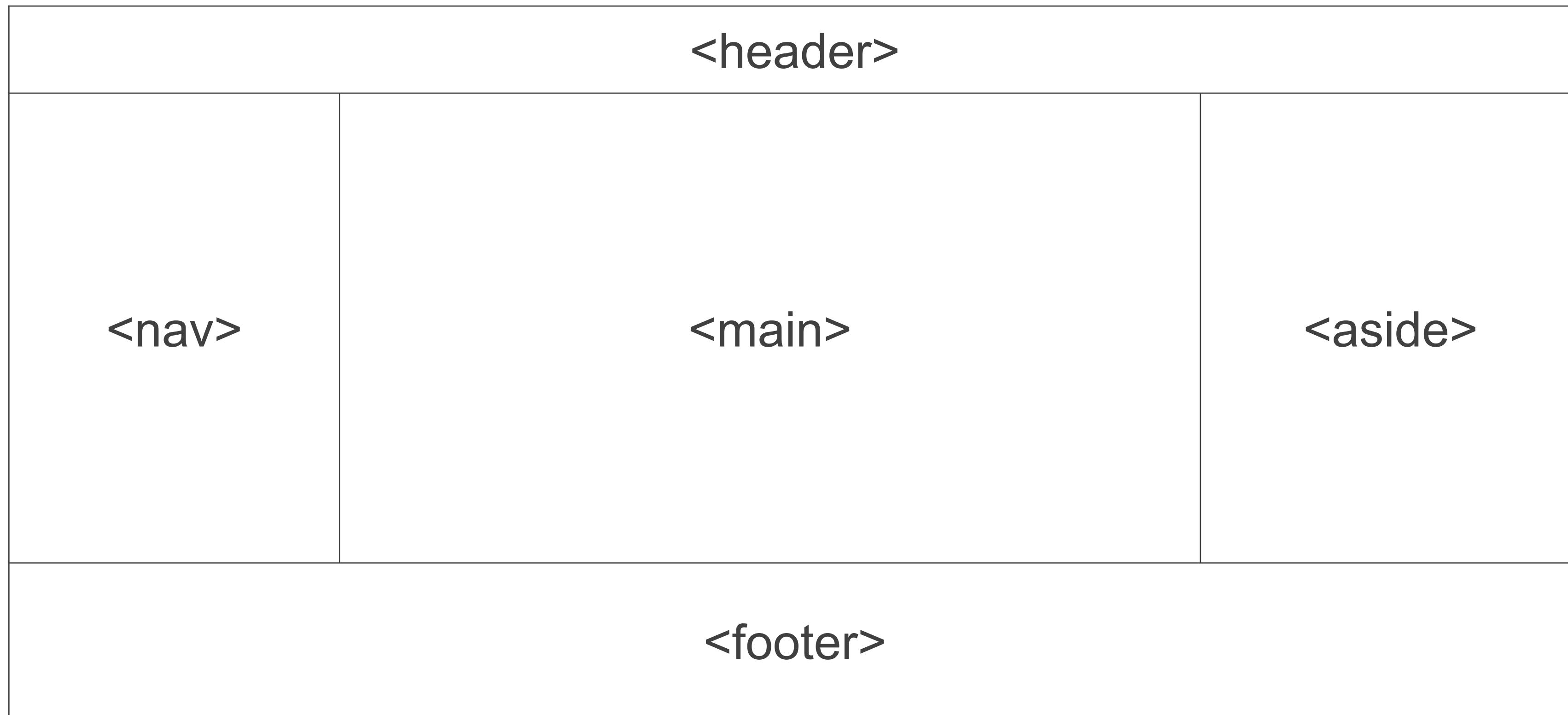
Subtitle

- Tag Selector
- Class Selector
- ID Selector
- Pseudo Class Selector



Flex

Innovations of layout

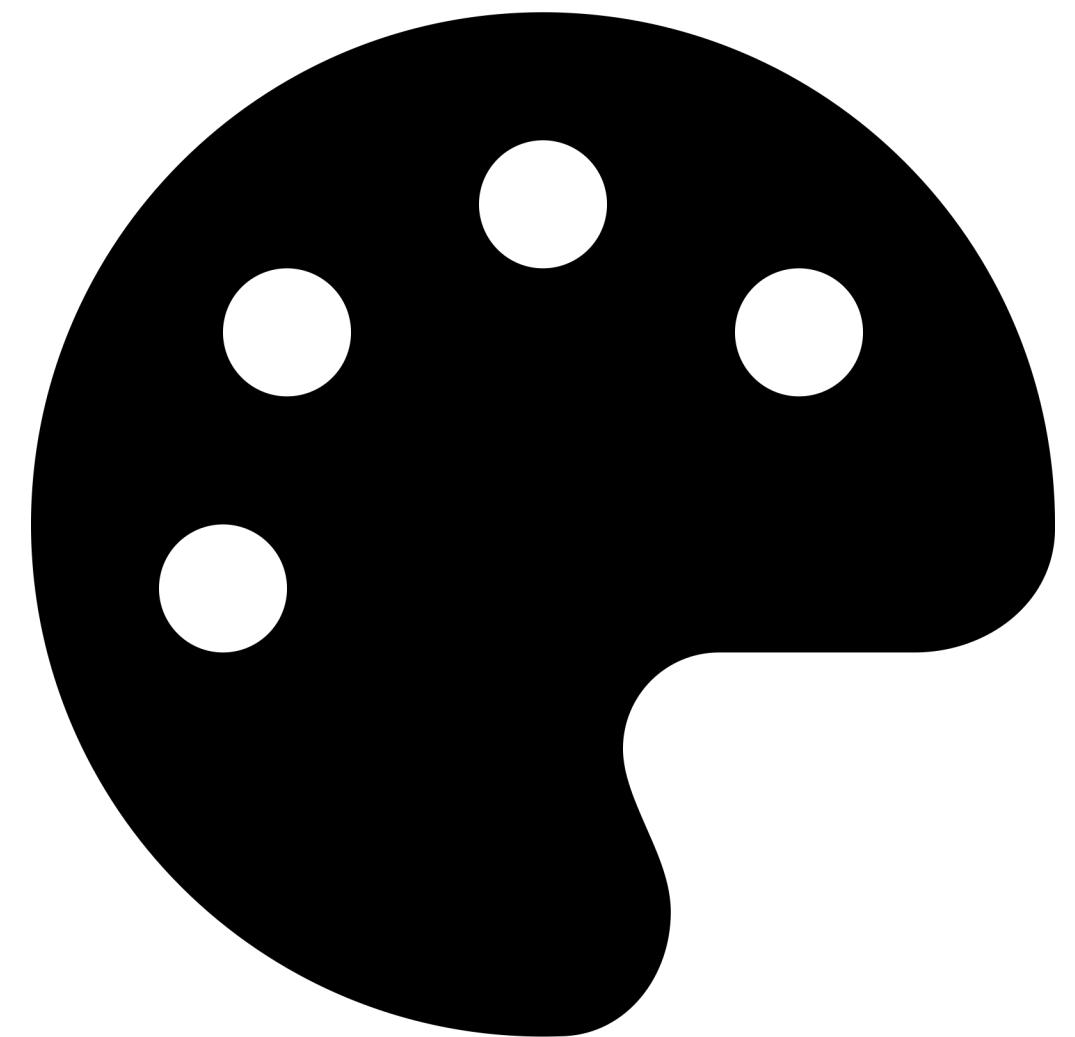


Philosophical Insights

```
function filterStudies({ studies, filterByOrg = false, filterByCategory = false }) {
  return studies.filter(study => {
    if (filterByCategory) {
      return study.categories.some(category => category === filterByCategory);
    }
    if (filterByOrg) {
      return study.organizations.some(organization => organization === filterByOrg);
    }
    return true;
  });
}
```

The purpose of CSS

What should it deliver?



```
int main(void)  
{  
    /* End of the Session! */  
    printf("%s", "Thank you!");  
    return 0;  
}
```

