



Google Developer Student Clubs

Frontend Session

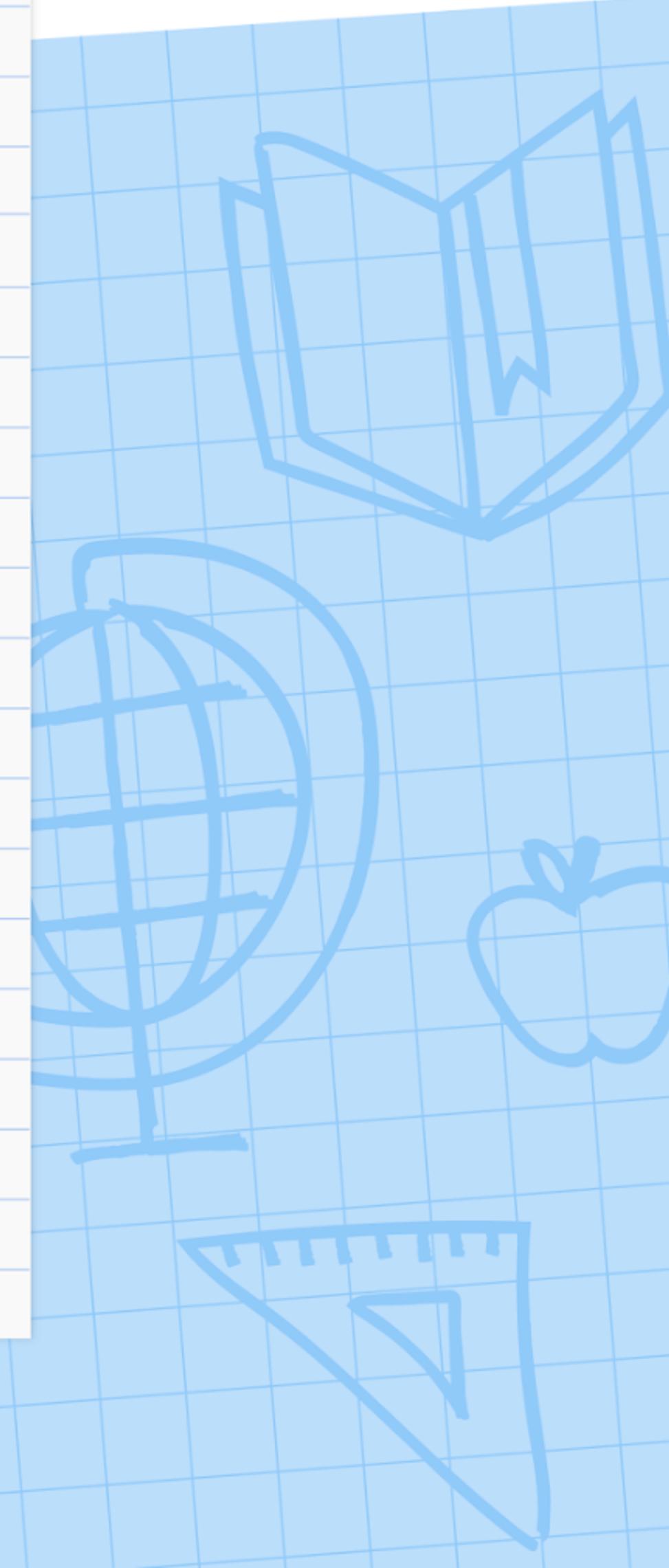
#1 Figma



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```
const filterByOrg = (study, filterByOrg) => study.organization === filterByOrg;
const filterStatus = (study, filterByStatus) => study.status === filterByStatus;
const filterMatchStatus = (study, filterByStatus) => filterStatus(study) || filterByStatus === null;

function filterStudies({ studies, filterByOrg, filterByStatus }) {
  return studies.filter(study => filterByOrg === null || filterByOrg === study.organization || filterByOrg === study.organization.name);
}
```



Contents

Why?

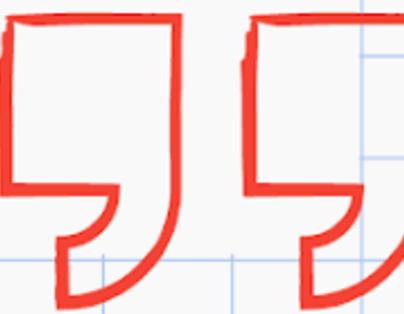
UX Scenario

App Design

References



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);  
    }  
  });  
}
```

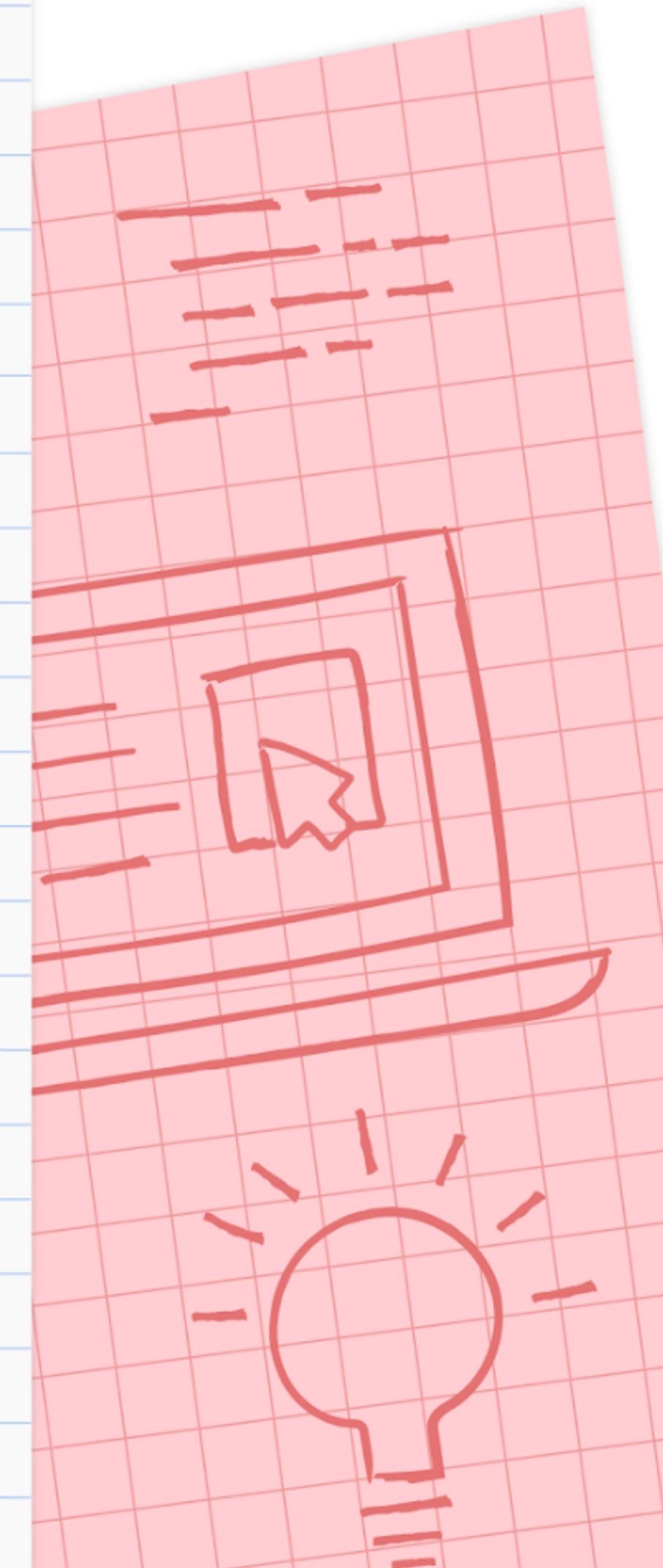
WHY?

Figma

Designer Collaboration

Design Sense

Understanding the Application Structure

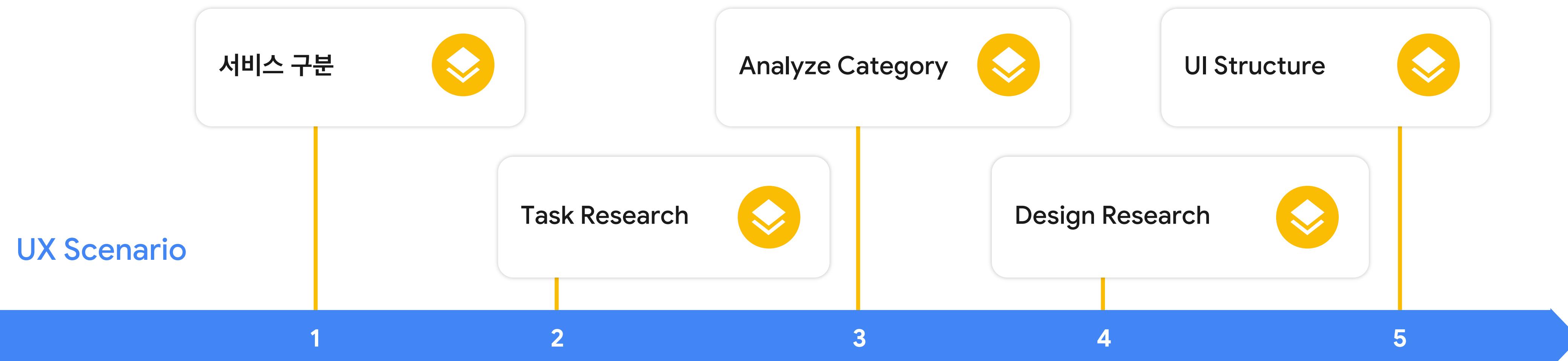


UX Scenario

```
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.com 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 visible, along with navigation links for "Get a design", "How it works", "Find a designer", "Inspiration", "Studio", and a phone number "1800 513 1678". The main content area has a white background and displays a large, bold title: "6 principles of visual hierarchy for designers". Below the title, there's a smaller text "by Alex Bigman" with a profile icon, followed by "4 years ago | 9 min read" and two buttons: "Learn design" and "Design basics". To the right of the main content, there's a vertical column of social media sharing icons for Facebook, Twitter, Pinterest, LinkedIn, and a plus sign for more options. The bottom of the page contains a short paragraph of text.

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.

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

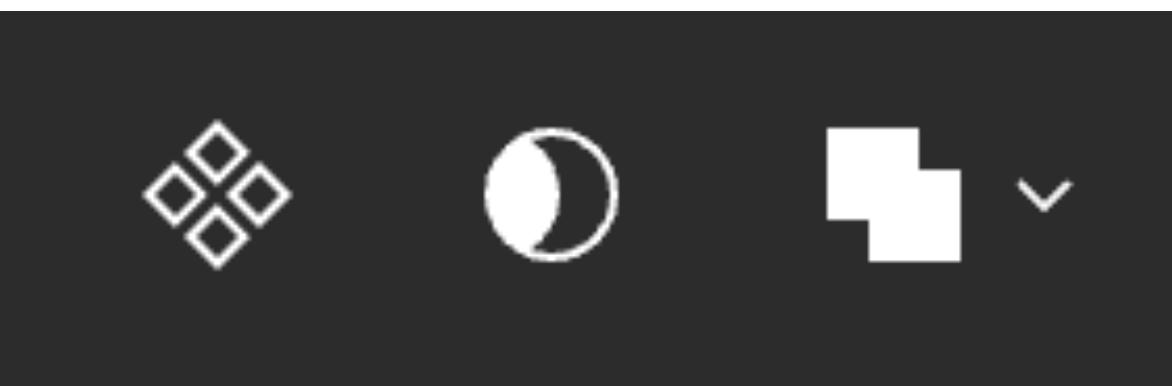
Menu

Menu Tools



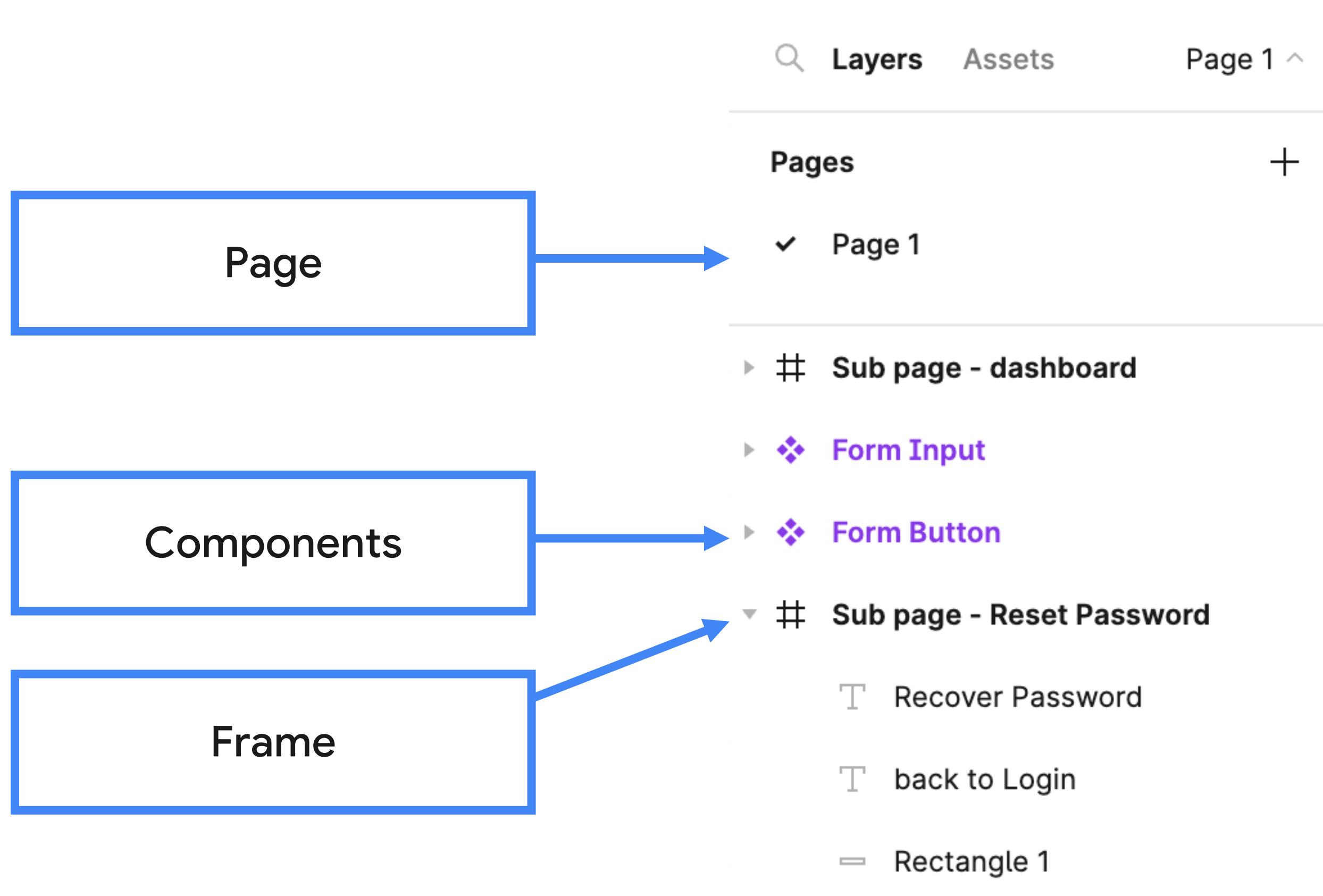
Menu

Menu Tools



Menu

Layers & Assets



Live Activity

Screenshot of a UI design tool interface showing a dashboard for a "Demo App".

The top navigation bar includes tabs for "Demo App", "STYLE", "ui-kit-ecommerce-v-01", "Page 1 - ui-kit-ecommerce-v-01", and a "Share" button.

The left sidebar displays the "Pages" section, listing:

- Page 1
 - # Sub page - dashboard
 - Form Input
 - Form Button
 - # Sub page - Reset Password
 - Recover Password
 - back to Login
 - Rectangle 1
 - Form Button
 - sign in
 - Form Button BG
 - Form Input
 - Input Text
 - Input BG
 - 7123953_logo_google_g_icon 1
 - # Sub page - Create Account
 - Create Account
 - back to Login
 - Rectangle 1
 - Form Button
 - sign in

Some Important Tips

Somethings that you should know...

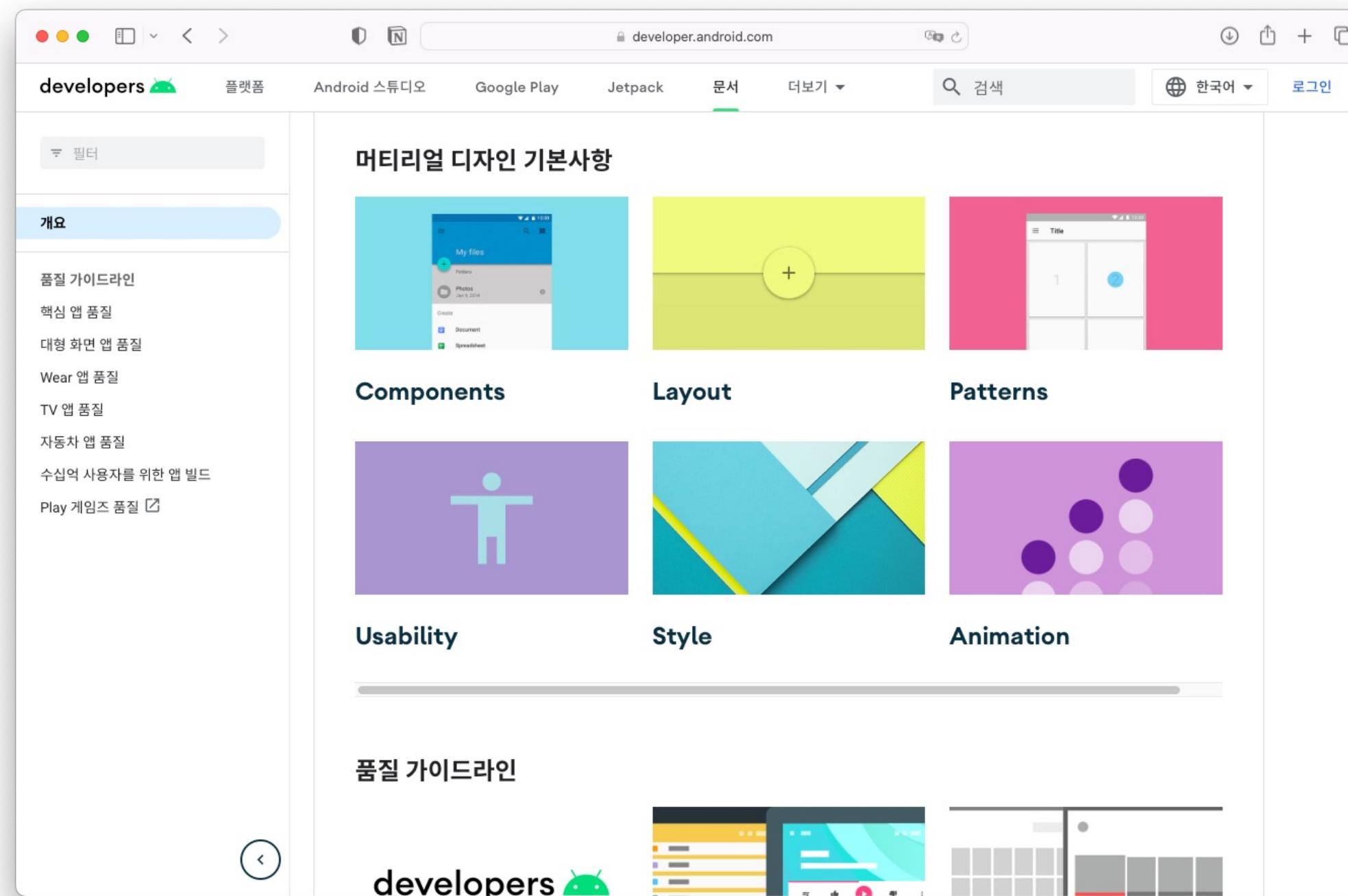
- Utilize SVG file
 - Can be used directly to the Web
- Constraints
 - Responsive Web Design
- Styles (Really Important!)
 - Reduces code reuse

References

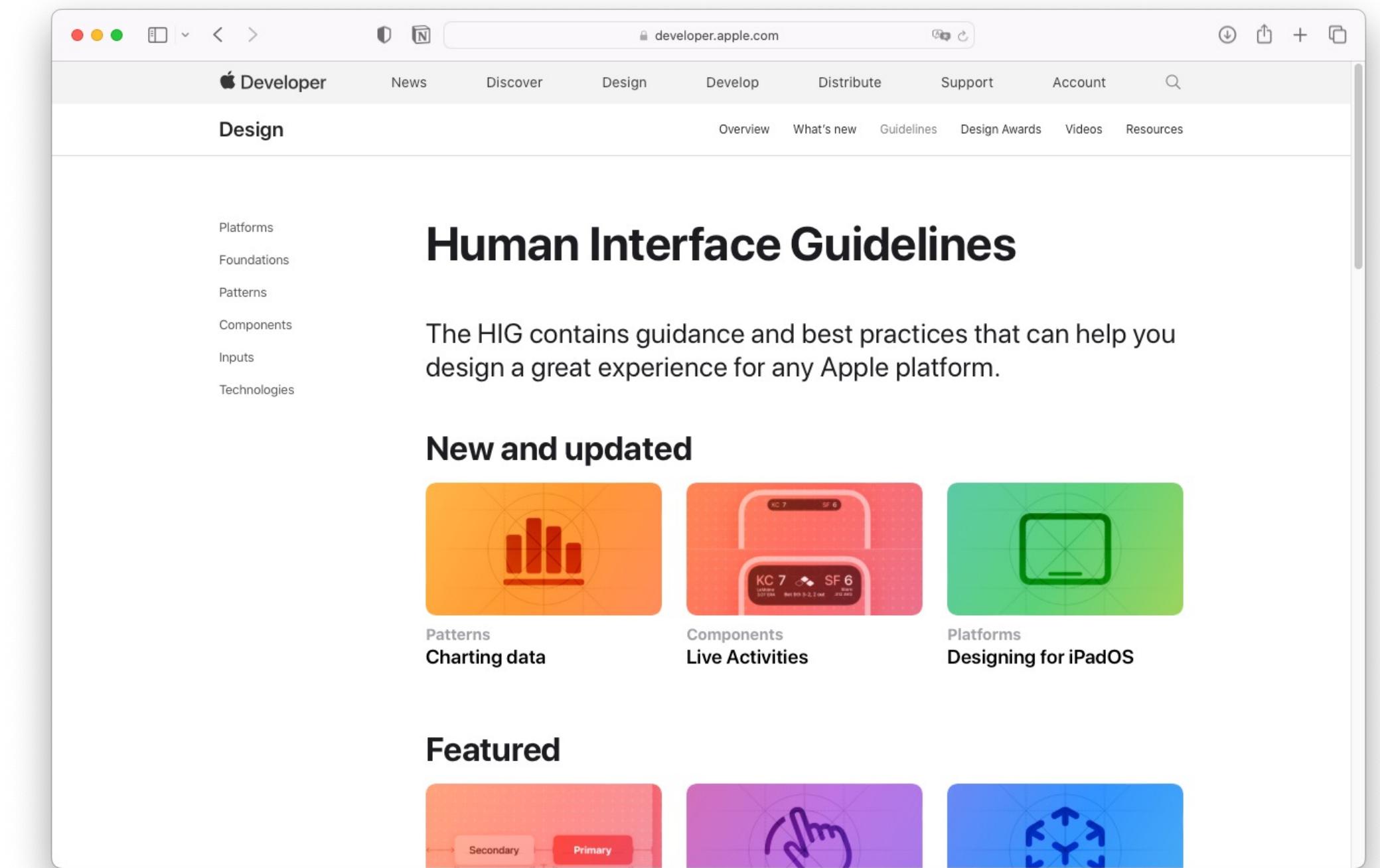
```
function filterStudies({ studies, filterByOrg = false, filterByCategory = false }) {
  return studies.filter(study => {
    if (filterByCategory) {
      return study.categories.some(category => category.id === filterByCategory)
    }
    if (filterByOrg) {
      return study.organizations.some(organization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

Some Useful Sites

RTFM!



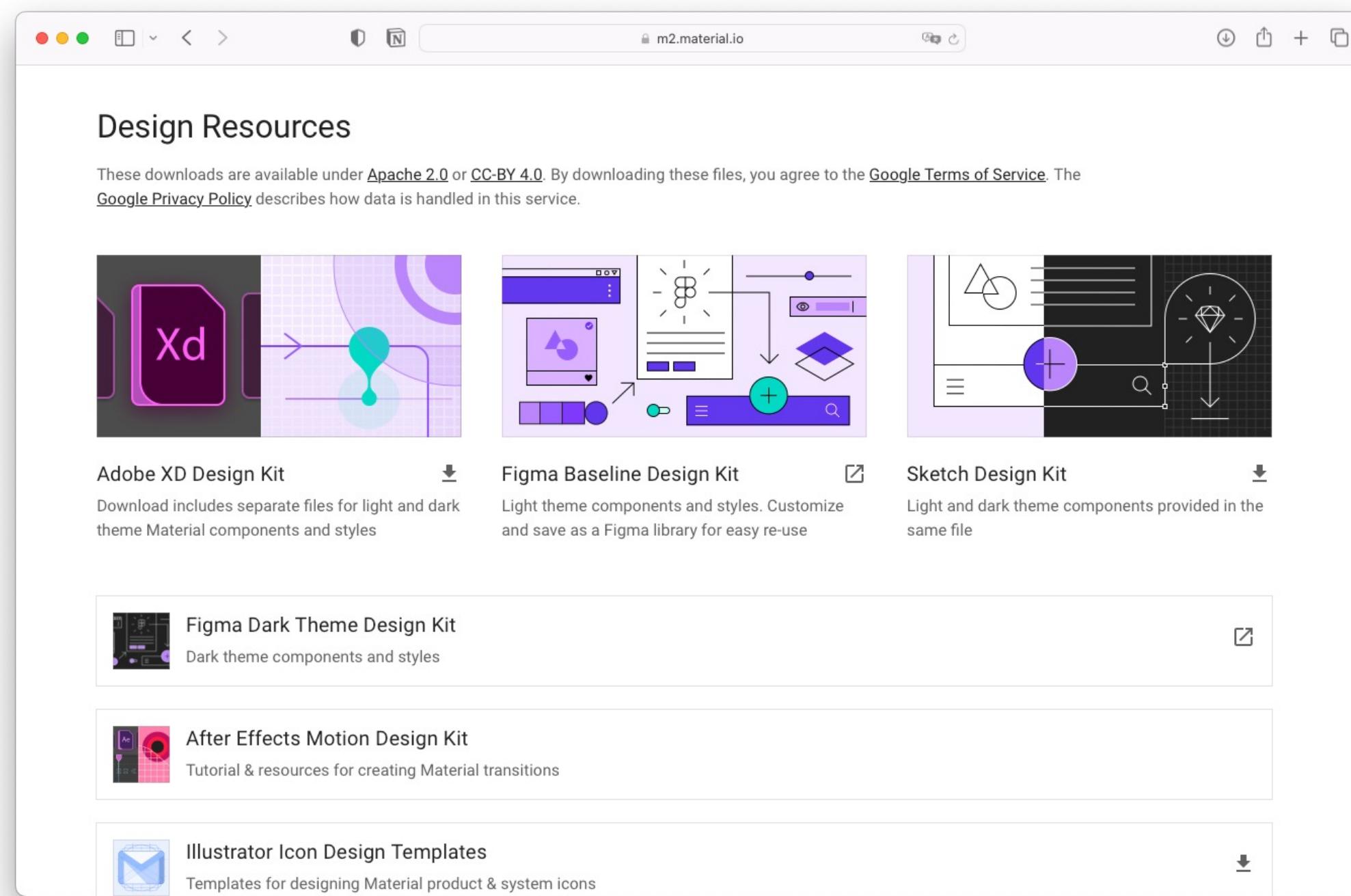
<https://developer.android.com/design>



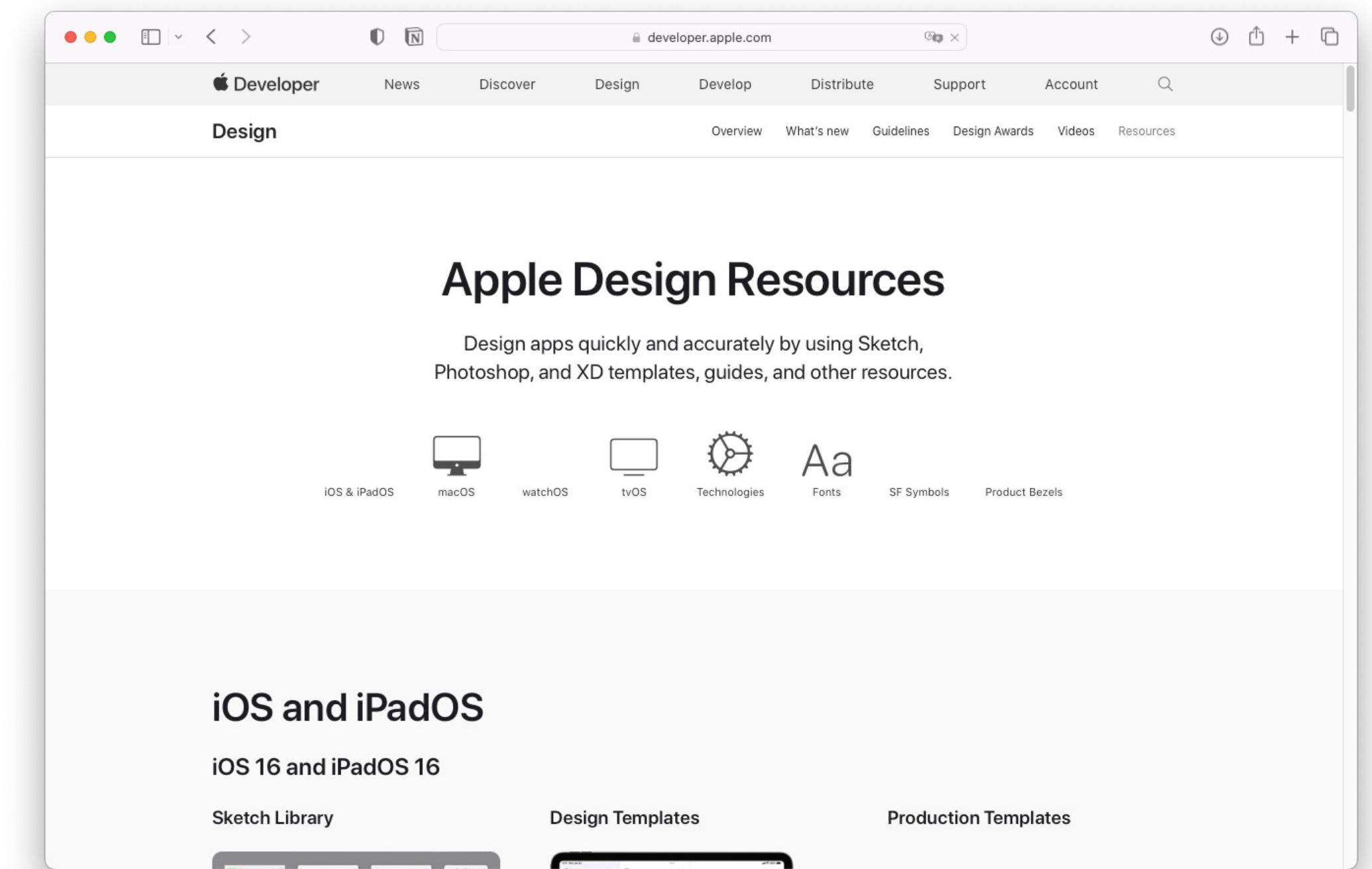
<https://developer.apple.com/design/human-interface-guidelines/guidelines/overview>

Some Useful Sites

UI Kit



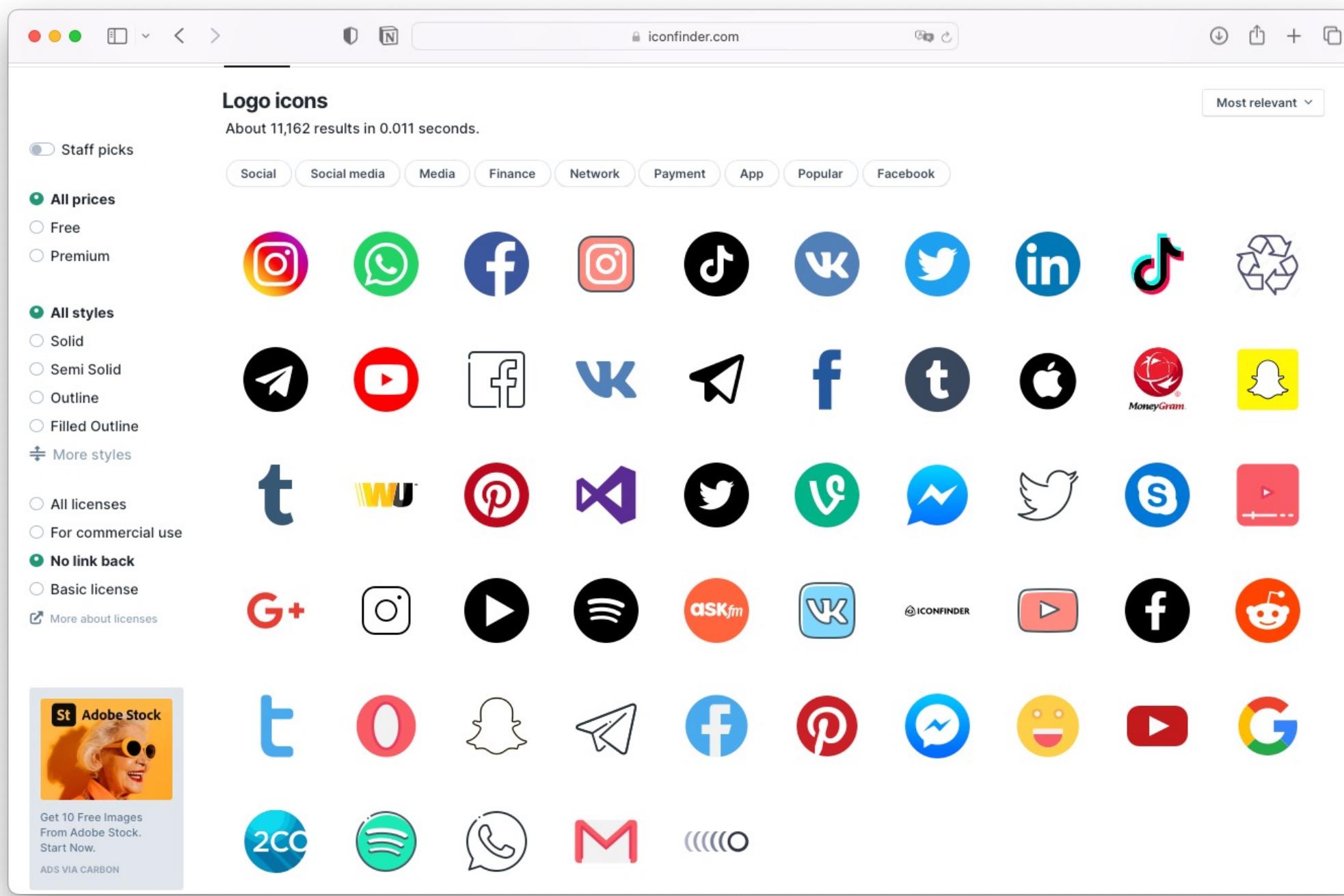
<https://m2.material.io/resources>



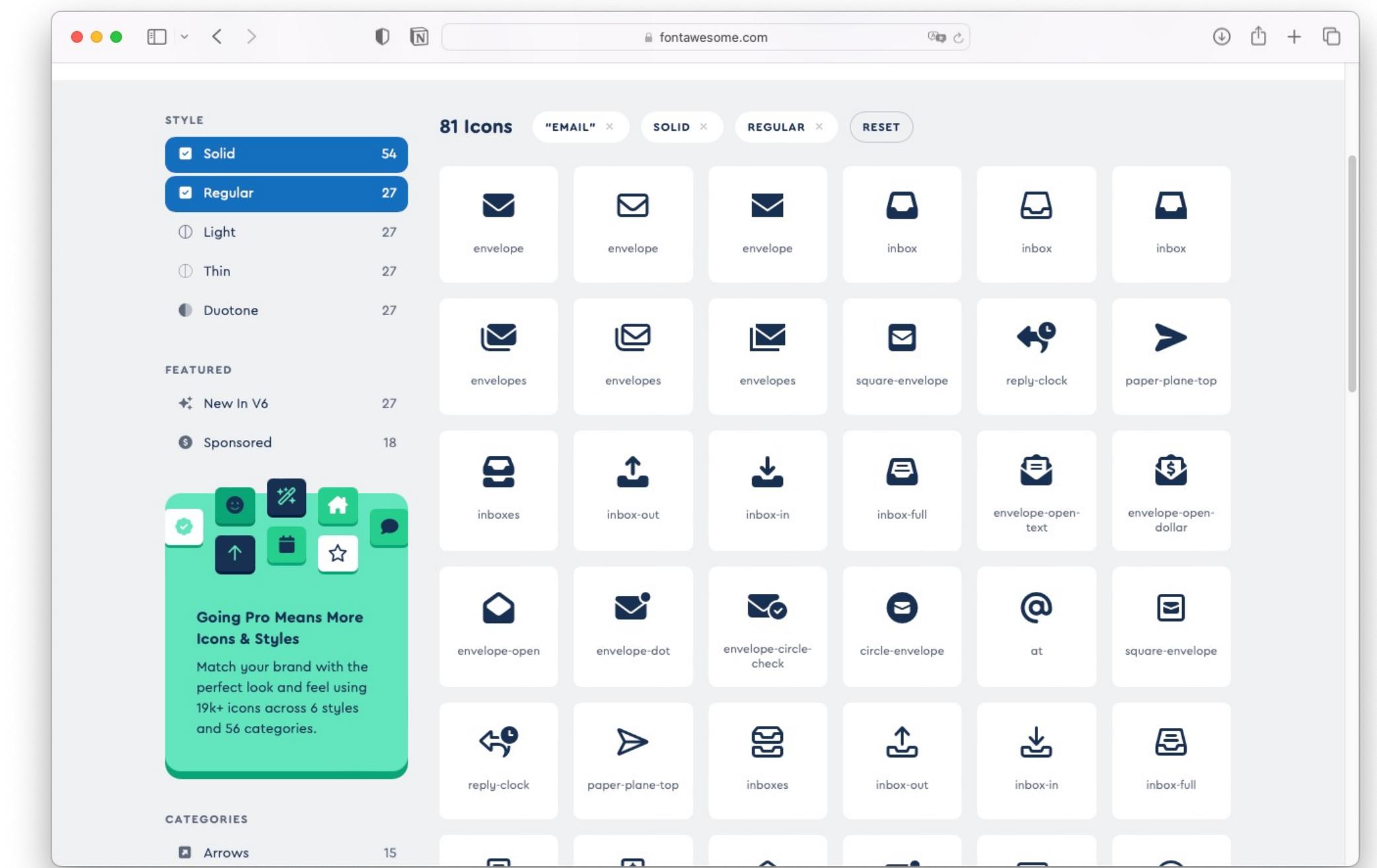
<https://developer.apple.com/design/resources>

Some Useful Sites

Logo & Icons



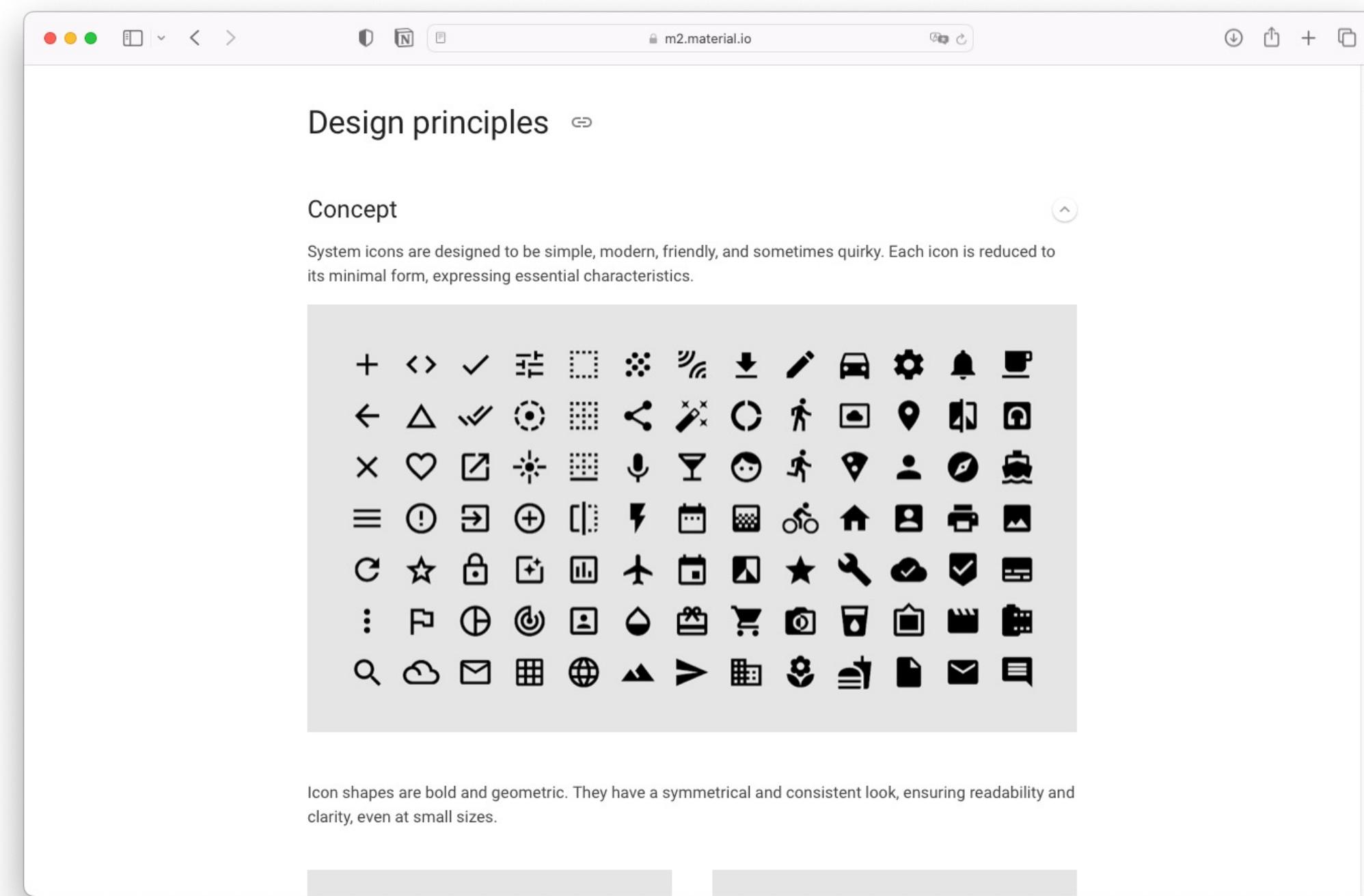
<https://www.iconfinder.com>



<https://fontawesome.com>

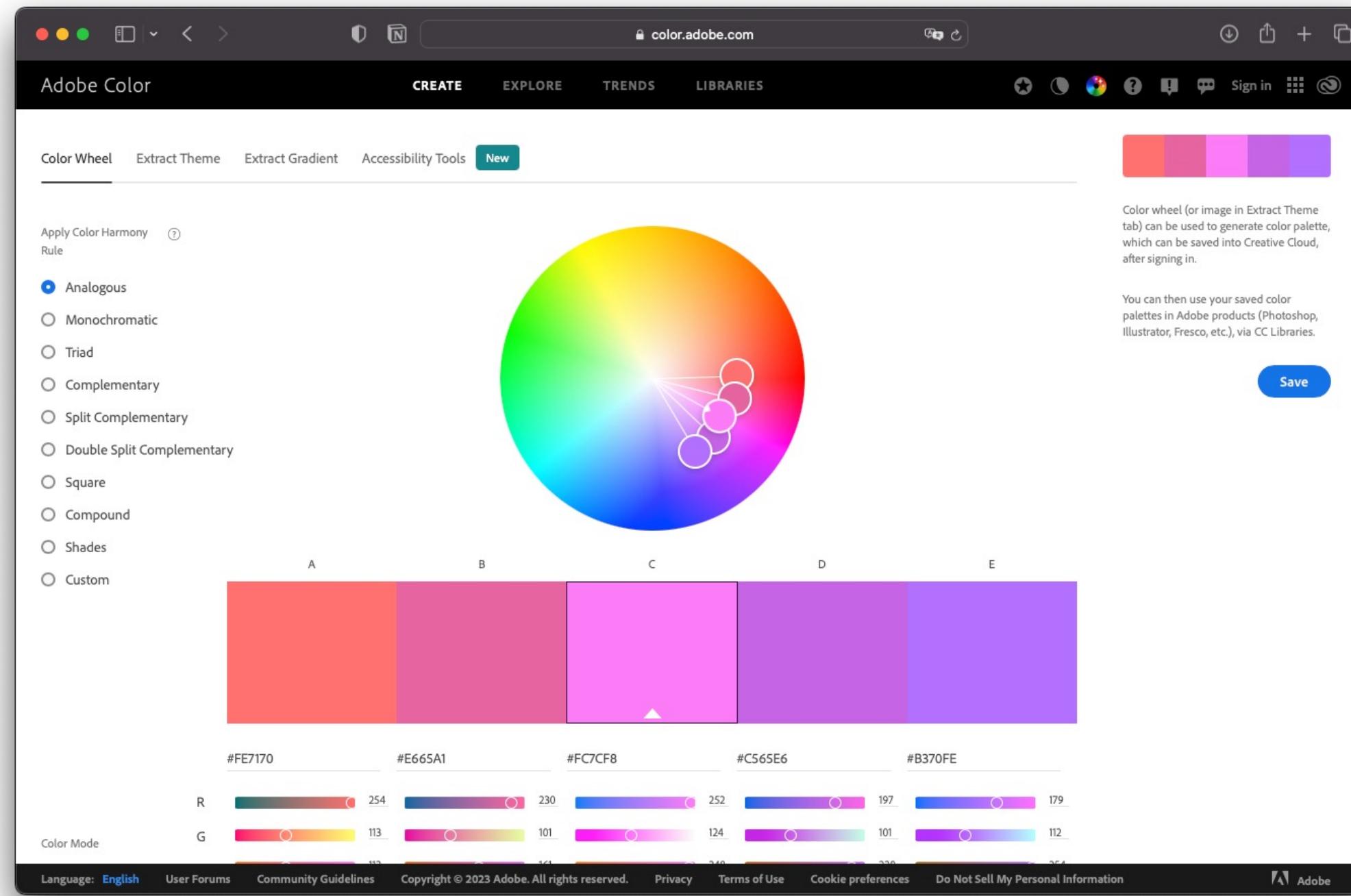
Some Useful Sites

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>

```
int main(void)
{
    /* End of today's frontend Session! */

    printf("%s", "Thank you!\n");
    printf("%s", "References:\n");
    printf("%s", "\t(2021, 김영삼) 모바일 UX/UI 디자인 강의\n");
    printf("%s", "\t(2021, 김동주) 피그마 완벽 활용서\n");

    return 0;
}
```