



Année Passerelle Ingénierie ISC

A9 - Résumé de la théorie

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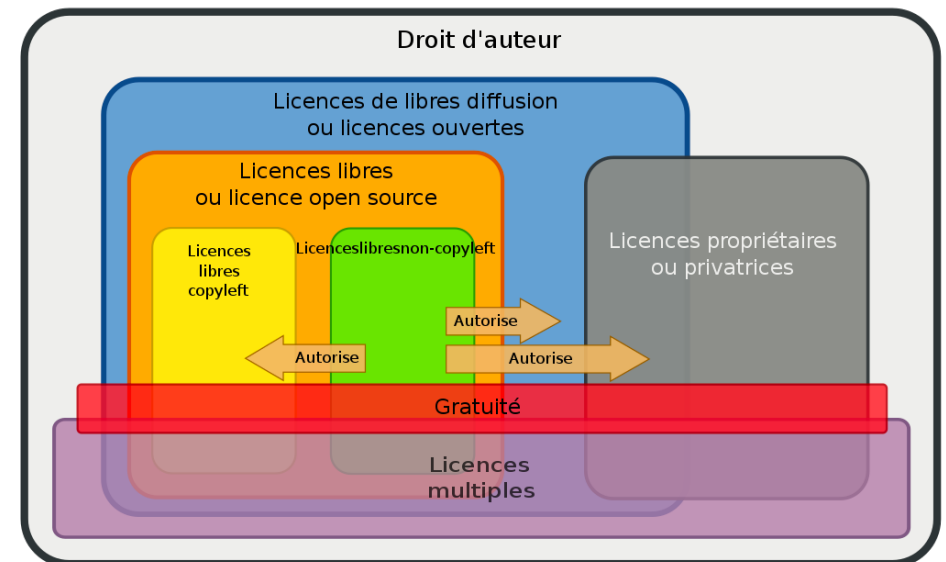
Licence logicielle

Contrat légal qui régit l'utilisation d'un logiciel informatique

Définit les droits et les restrictions associés à l'utilisation du logiciel par l'utilisateur

- Comment le logiciel peut être installé et utilisé
- Droits de reproduction
- Redistribution
- Restrictions d'utilisation
- Responsabilité
- ...

Types de licences



Licence logicielle

Types de licences

| Rights granted | Public domain | Permissive FOSS license (e.g. BSD license) | Copyleft FOSS license (e.g. GPL) | Freeware / Shareware / Freemium | Proprietary license | Trade secret |
|---------------------|----------------|--|---|---------------------------------|---|--|
| Copyright retained | No | Yes | Yes | Yes | Yes | Yes |
| Right to copy | Yes | Yes | Yes | Often | No | Lawsuits are filed by the owner against copyright infringement the most |
| Right to modify | Yes | Yes | Yes | No | No | No |
| Right to distribute | Yes | Yes, under same license | Yes, under same license | Often | No | No |
| Right to sublicense | Yes | Yes | No | No | No | No |
| Example software | SQLite, ImageJ | Apache web server, nginx | Linux kernel, GIMP, Open Broadcaster Software | Irfanview, Winamp | Windows, the majority of commercial video games and their DRMs, Spotify | Server-side Cloud computing programs and services, forensic applications, and other line-of-business work. |

FOSS

Free and Open Source Software

- Liberté d'utilisation
- Accès au code source
- Liberté de modification
- Liberté de distribution
- Collaboration ouverte

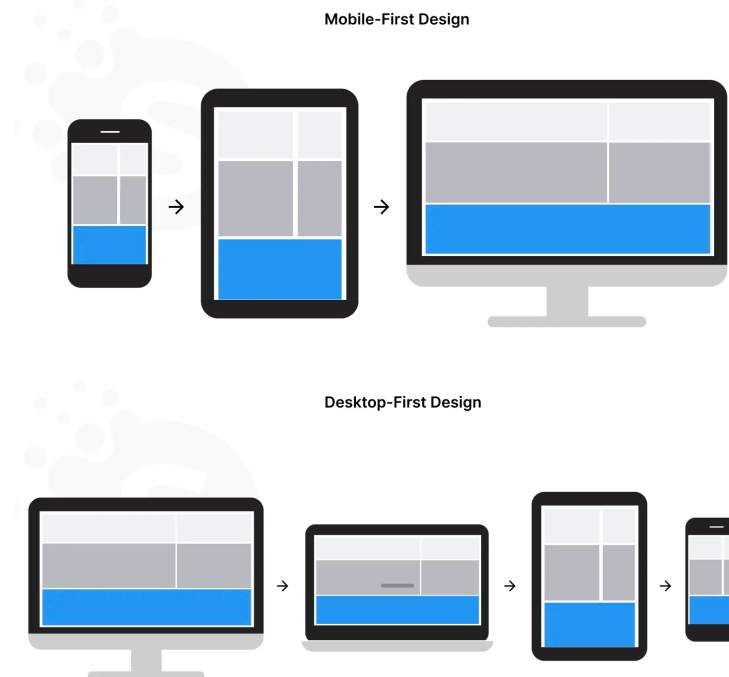
Copyleft

- Garantir que les logiciels libres demeurent libres
- Obligation d'utiliser la licence d'origine pour toutes modifications, extension ou intégration

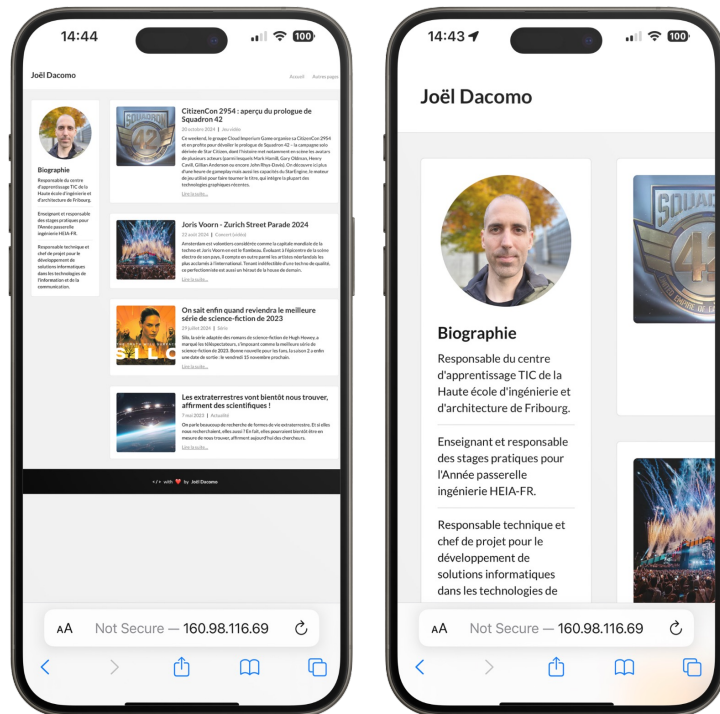
Responsive Web Design



Processus de conception



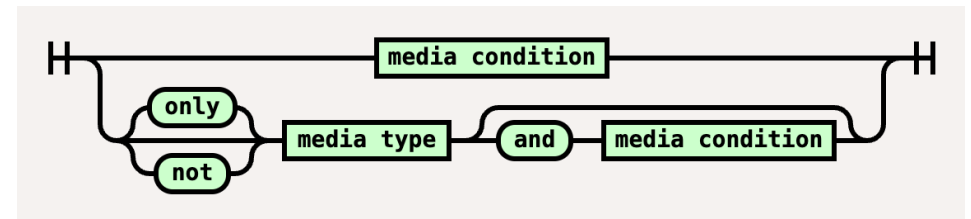
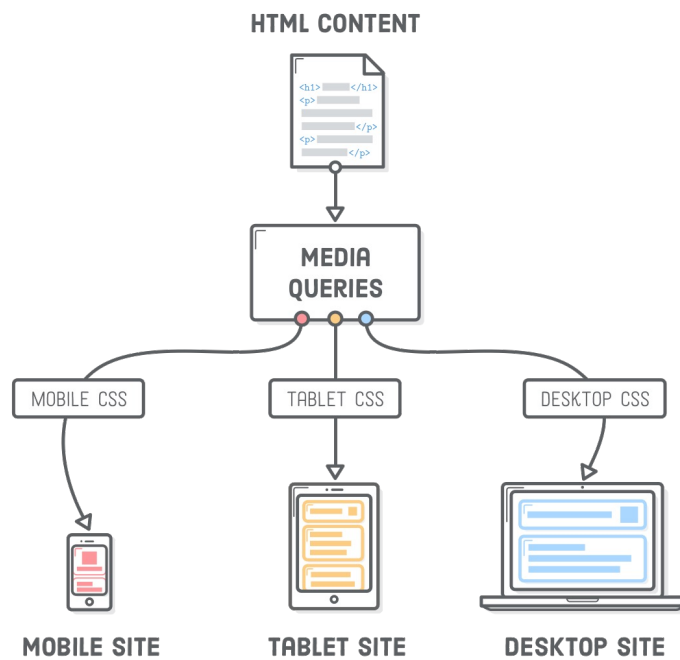
Viewport



Balise meta viewport

```
<meta content="width=device-width, initial-scale=1" name="viewport">
```

CSS - Media Queries



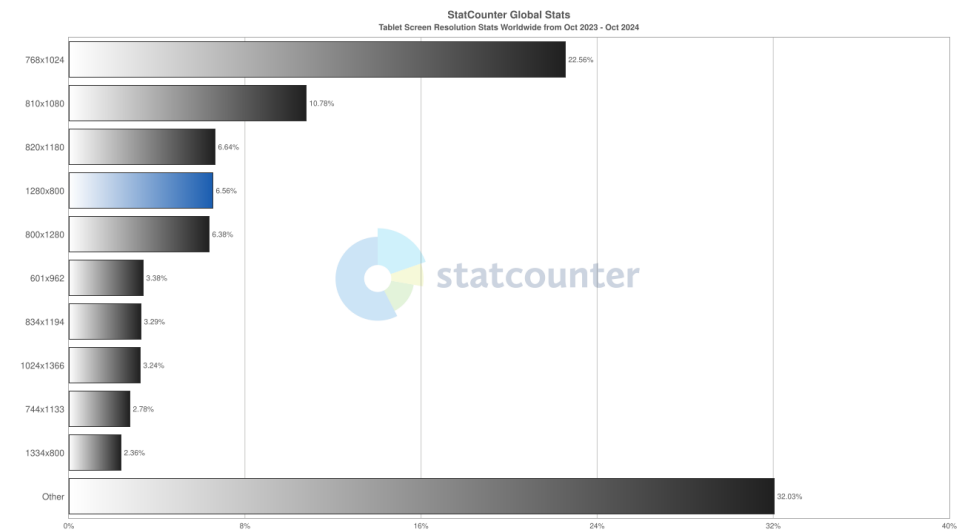
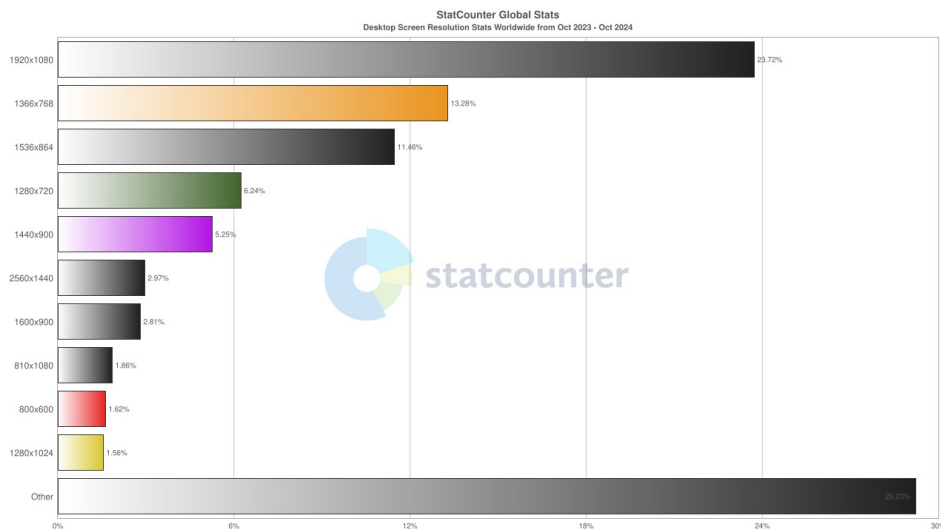
```
@media (width >= 600px) {  
  ...  
}
```

```
@media print {  
  header,  
  footer {  
    display: none;  
  }  
}
```

```
@media (width >= 600px) and (orientation: landscape) {  
  ...  
}
```

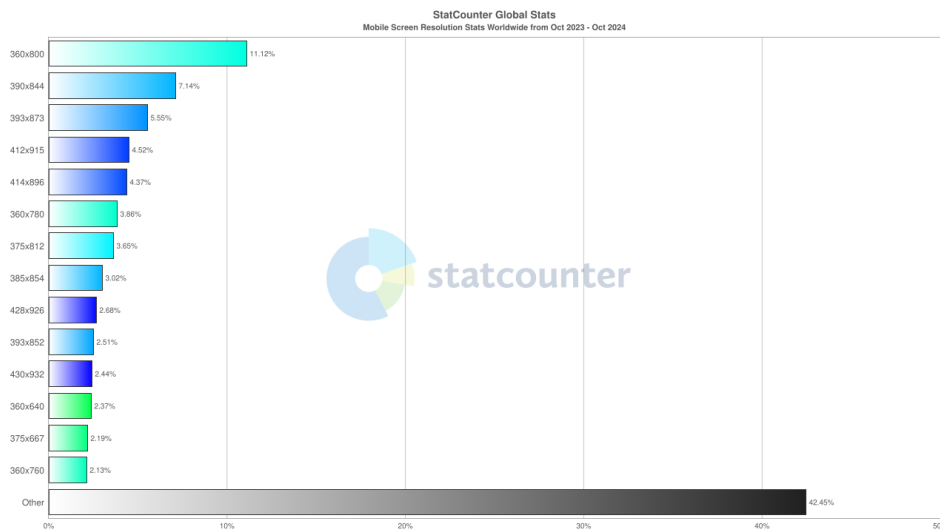
CSS - Media Queries

Breakpoints



CSS - Media Queries

Breakpoints



Ecran d'ordinateur :

- **largeur > 1200px**

Ecran de tablette ou petit écran d'ordinateur (12" - 14") :

- **largeur entre 768px et 1200px**

Ecran de smartphone paysage :

- **largeur entre 480px et 768px**

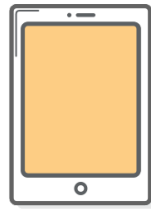
Ecran de smartphone portrait :

- **largeur < 480px**

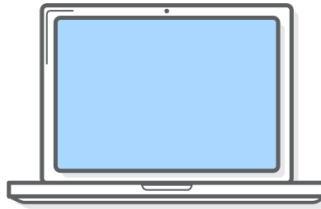
CSS - Media Queries



MOBILE



TABLET



DESKTOP

```
/* Mobile styles */
@media (width <= 480px) {
  body {
    /* red */
    background-color: #f09a9d;
  }
}

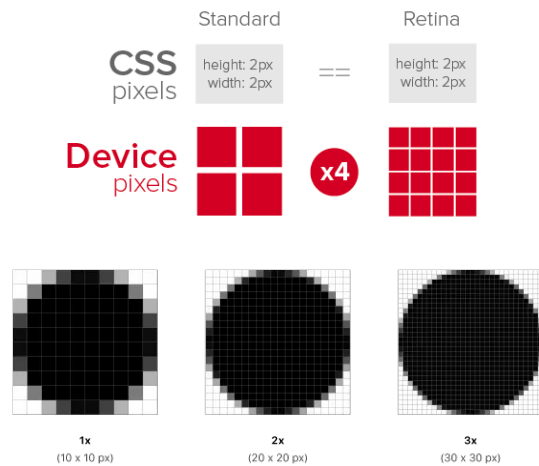
/* Tablet styles */
@media (width >= 481px) and (width <= 1200px) {
  body {
    /* yellow */
    background-color: #f5cf8e;
  }
}

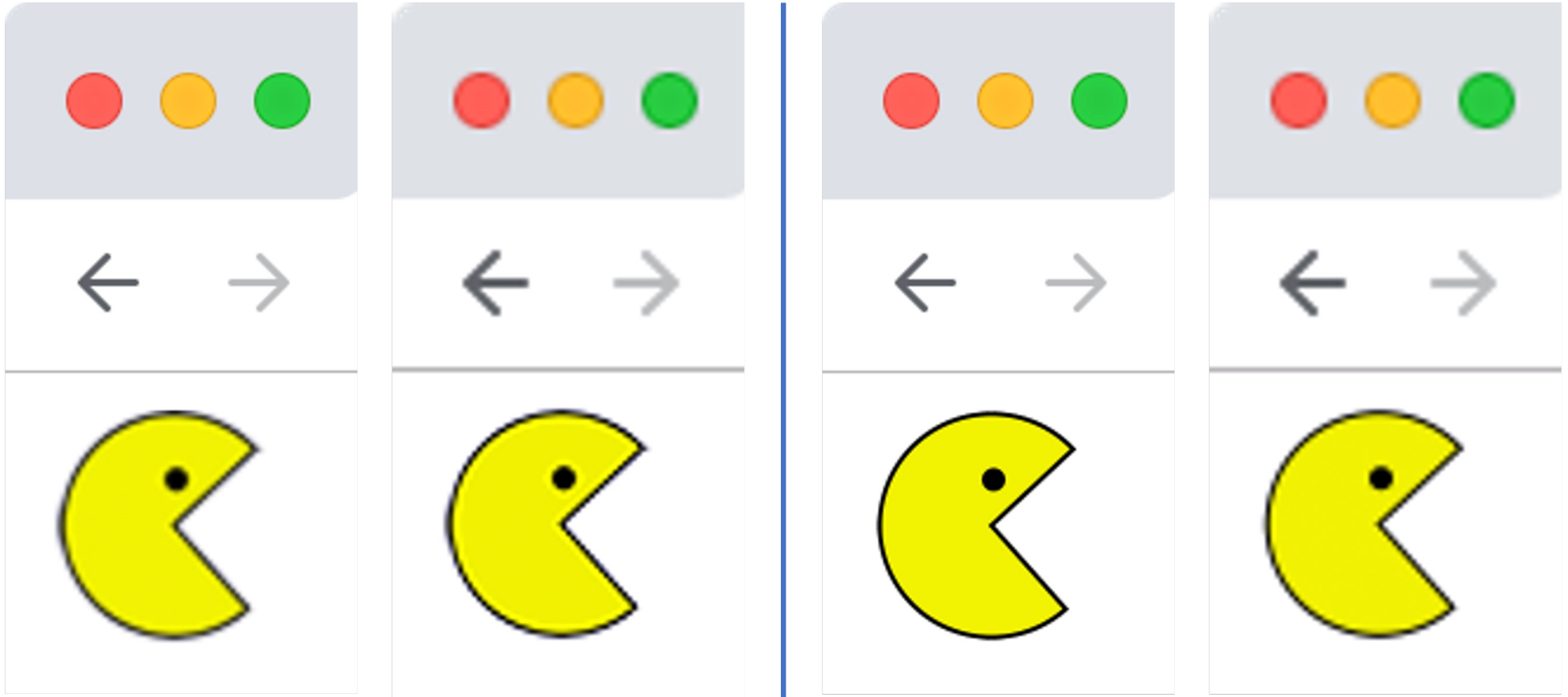
/* Desktop styles */
@media (width >= 1201px) {
  body {
    /* blue */
    background-color: #b2d6ff;
  }
}
```

CSS - Media Queries

Pixel CSS

| iPhone 16 Pro Dimensions | iPhone 16 Pro Resolution | iPhone 16 Pro Viewport | iPhone 16 Pro Density |
|---------------------------|--------------------------|-------------------------|-----------------------|
| ○ 6.3 INCH | ○ 1206 x 2622 PX | ○ 402 x 874 PX | ○ 3 XXHDPI |
| ○ 5.89 x 2.81 x 0.33 INCH | ○ ~ 460 PIXELS PER INCH | ○ ~ 153 PIXELS PER INCH | ○ 3x RETINA DISPLAY |

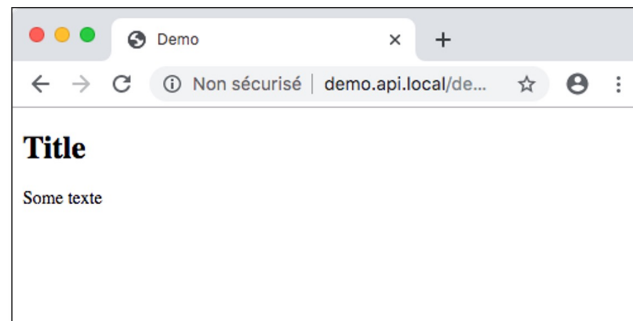
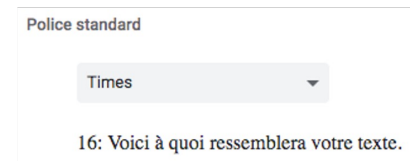
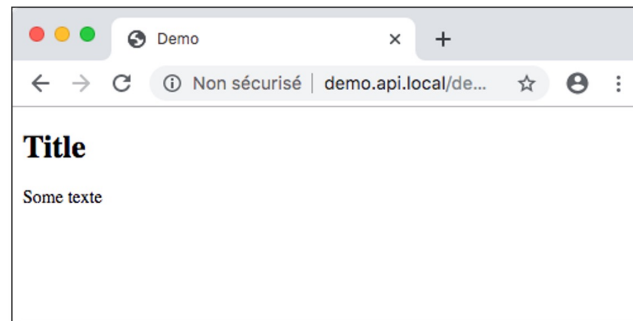




Font size

Unité px

```
h1 {  
  font-size: 25px;  
}  
  
p {  
  font-size: 14px;  
}
```





Font size

Unité rem

```
h1 {  
  font-size: 2.5rem;  
}  
  
p {  
  font-size: 1.4rem;  
}
```

```
html {  
  font-size: 62.5%;  
}  
  
body {  
  font-size: 1.6rem;  
}
```

