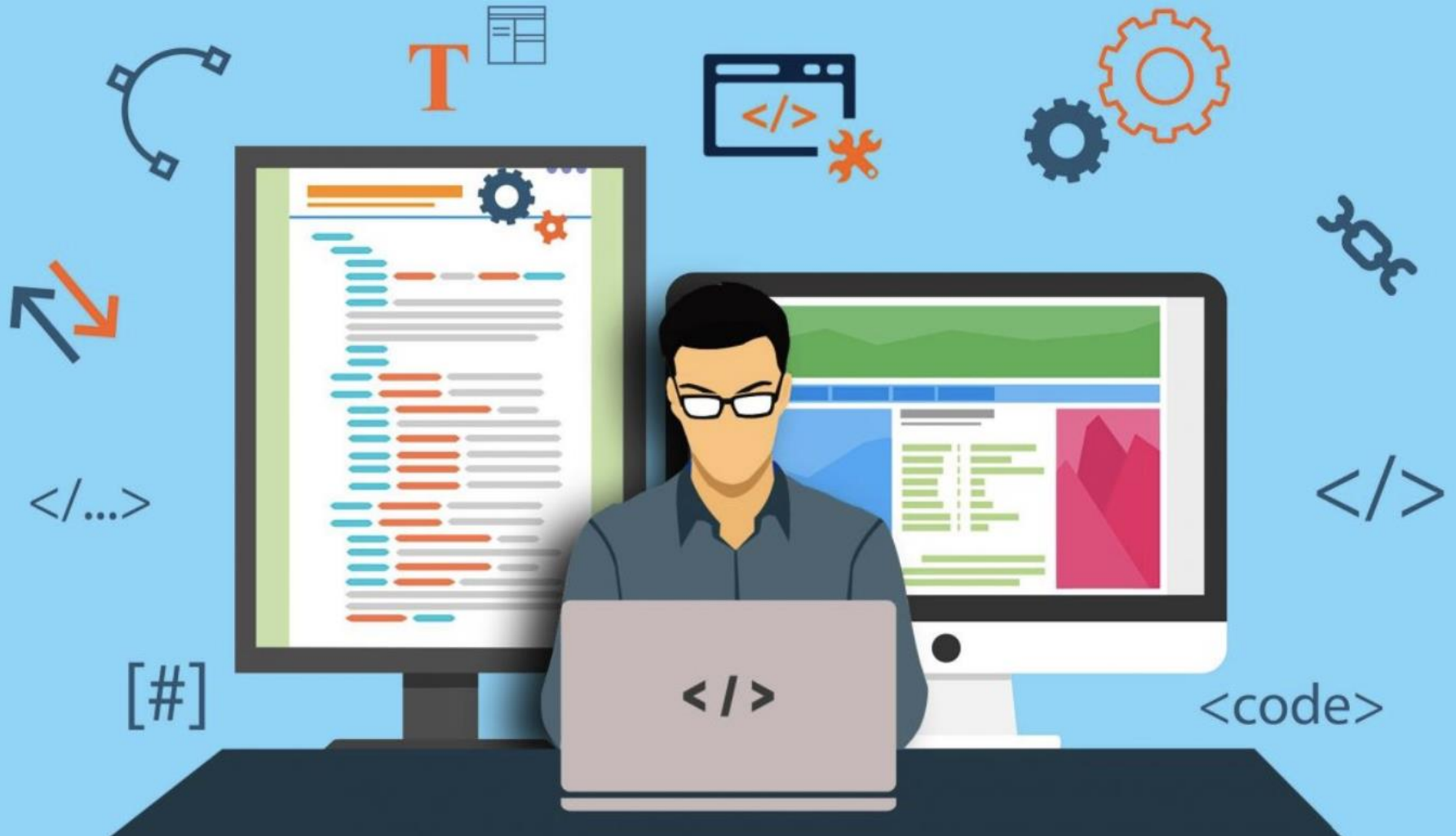


# What is a Media Query?



---

# How do I make my website responsive?

- We have coded a simple webpage suitable for laptop/desktop. In order to make this web path responsive, we need to do the following:
    1. Decide how the mobile screen will look. Sketch it..
    2. CSS required to address the mobile web page needs to be added. Remember, we are coding mobile-first so this size is considered first on the CSS stylesheet.
-

# How do we want the mobile web page to look?

## Fish Creek Animal Hospital

[Home](#)

[Services](#)

[Ask the Vet](#)

[Contact](#)

### Full Services Facility

Veterinarians and staff are on duty 24 hours a day, 7 days a week.

### Years of Experience

Fish Creek Veterinarians have provided quality, dependable care for your beloved animals since 1984.

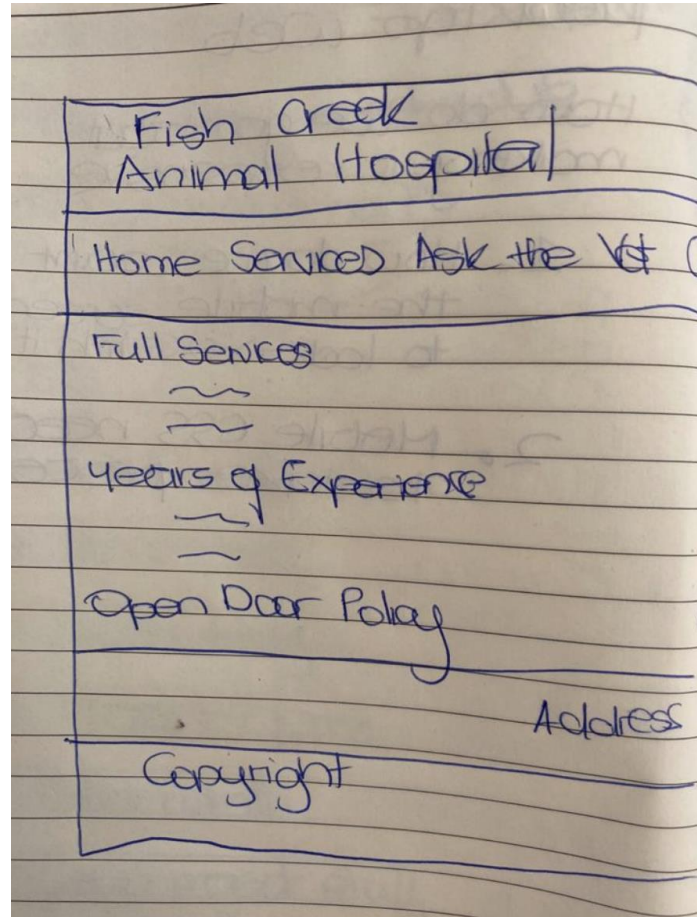
### Open Door Policy.

Our professional welcome owners to stay with their pets during any medical procedure.

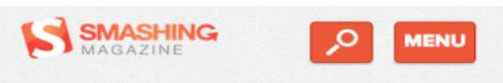
1-800-555-5555  
1242 Grassy Lane  
Fish Creek, WI 55534

*Copyright © 2013 Fish Creek Animal Hospital*

# How do we want the mobile web page to look?



# How does the screen adjust?



## OPINION COLUMN

### Hey Designers: Stop Being An Afterthought

By [Robert Hoekman Jr](#)

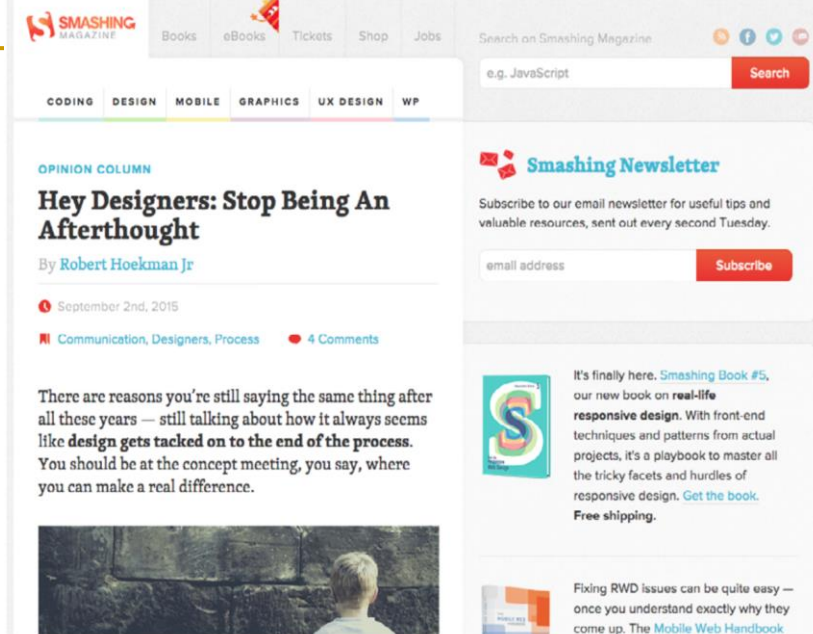
September 2nd, 2015

Communication, Designers, Process

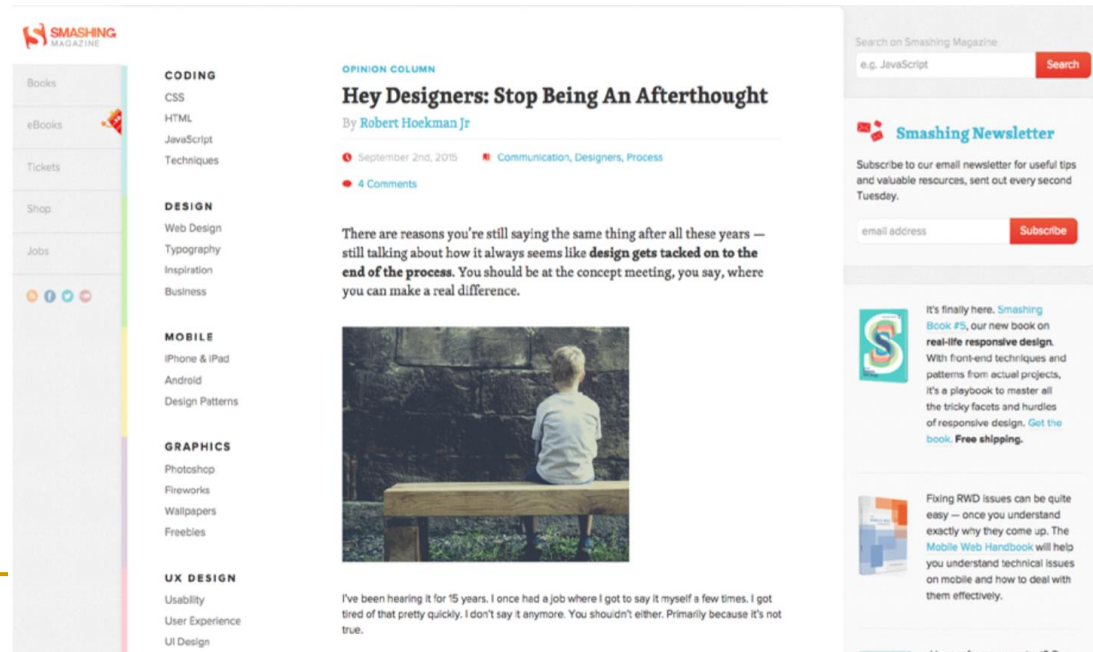
4 Comments

There are reasons you're still saying the same thing after all these years — still talking about how it always seems like **design gets tacked on to the end**

*Photo credit: Smashing Magazine*



*Photo credit: Smashing Magazine*



*Photo credit: Smashing Magazine*

# Media Queries

- A **media query** lets you question the browser to determine if certain expressions are true. If they are, you can load a specific block of styles intended for that situation and tailor the display.

*i.e. it allows the browser to check what size device is being used and will load CSS rules based on that.*

# Media Expressions

- Test against a feature and evaluate if true or false – **“Is the screen 320px or more. If true, load the set of CSS rules”**

@media only screen and (min-width: 320px) {

}

# Media Expressions

- Test against a feature and evaluate if true or false – **“Is the screen 320px or more. If true, load the set of CSS rules”**

```
@media only screen and (min-width: 320px) {  
    header: 50%;  
}
```

- “header” is 50% ONLY if the screen is 320px or bigger.



---

# Sizing fonts

- Pixels
  - Ems
  - Percentages
-

---

# An example ... - pixels

```
body{  
    font-size: 16px; /* base font size set in pixels */  
}
```

```
h1{  
    font-size: 24px;    }
```

---

# An example ... - ems

```
body{  
    font-size: 16px;  
}
```

```
h1{  
    font-size: 1.5em;  
}
```

# An example ... - percentages

```
body{  
    font-size: 100%;  
}
```

```
h1{  
    font-size: 150%;  
}
```

# Other means of font-sizing

- Rem
- Viewport sizing:
  - Viewport width(vw)
  - Viewport height (vh)
  - Viewport minimum (vmin)
  - Viewport maximum (vmax)

---

# So how can we apply this to Fish Creek?

- We have coded a simple webpage suitable for laptop/desktop. In order to make this web path responsive, we need to do the following:
    1. How do we want the mobile screen to look?  
Sketch it..
    2. CSS required to address the mobile web page needs to be added. Remember, we are coding mobile-first so this size is considered first on the CSS stylesheet.
-

# Which of these current rules need to be adjusted for mobile?

```
1 {  
  .grid-container{  
    display: grid;  
    grid-template-columns: 1fr 3fr 1fr;  
    grid-template-rows: 100px 400px 100px;  
  }  
  
2  header{grid-column:1/span 3; grid-row:1; background:green;}  
   nav{background:yellow;}  
   section{background:blue;padding:20px;}  
3  footer{grid-column:1/span 3; grid-row:3;background:lightblue; text-align:center;}  
   dl{color:white;}  
   dd{padding-bottom:5%;}  
   nav ul{list-style-type:none;}  
   li{padding:10px;}  
   .flexbox-nav{display: flex; align-items:center; }  
   .flexbox-center{display: flex; justify-content:center; }  
   .left{display:flex; align-items:flex-end; justify-content:flex-end; background:orange;}
```

---

# 1. Change the setup, the grid-container

At the moment, the grid set up is:

```
.grid-container{  
    display: grid;  
    grid-template-columns: 1fr 3fr 1fr;  
    grid-template-rows: 100px 400px 100px;  
}
```



---

# So how can we apply this to Fish Creek?

For the mobile screen, it is only one column which suggests that we are better off using **flex**:

```
.grid-container{  
    display: flex; //remember – 1 dimensional  
    flex-direction: column; // aligned in a column rather than row  
    min-height: 100vh; //the height of the web page is 100%  
}
```

# Which of these current rules need to be adjusted for mobile?

```
1 {  
  .grid-container{  
    display: grid;  
    grid-template-columns: 1fr 3fr 1fr;  
    grid-template-rows: 100px 400px 100px;  
  }  
  
2  header{grid-column:1/span 3; grid-row:1; background:green;}  
   nav{background:yellow;}  
   section{background:blue;padding:20px;}  
3  footer{grid-column:1/span 3; grid-row:3;background:lightblue; text-align:center;}  
   dl{color:white;}  
   dd{padding-bottom:5%;}  
   nav ul{list-style-type:none;}  
   li{padding:10px;}  
   .flexbox-nav{display: flex; align-items:center; }  
   .flexbox-center{display: flex; justify-content:center; }  
   .left{display:flex; align-items:flex-end; justify-content:flex-end; background:orange;}
```

# 2 & 3 Header and footer need to be adjusted

## **Desktop:**

```
header{grid-column:1/span 3; grid-row:1;}
```

```
footer{grid-column:1/span 3; grid-row:3;}
```

## **Mobile:**

```
header{background:green;}
```

```
footer{background:lightblue; text-align:center;}
```

---

---

# How does the browser know which rules apply

Use the @media query

```
@media (min-width: 768px){
```

```
//Everything in here is for the laptop+. 768px and above..
```

```
}
```

---

# So what does CSS style sheet look like now?

```
.grid-container {
  display: flex;
  flex-direction: column;
  min-height: 100vh;
}

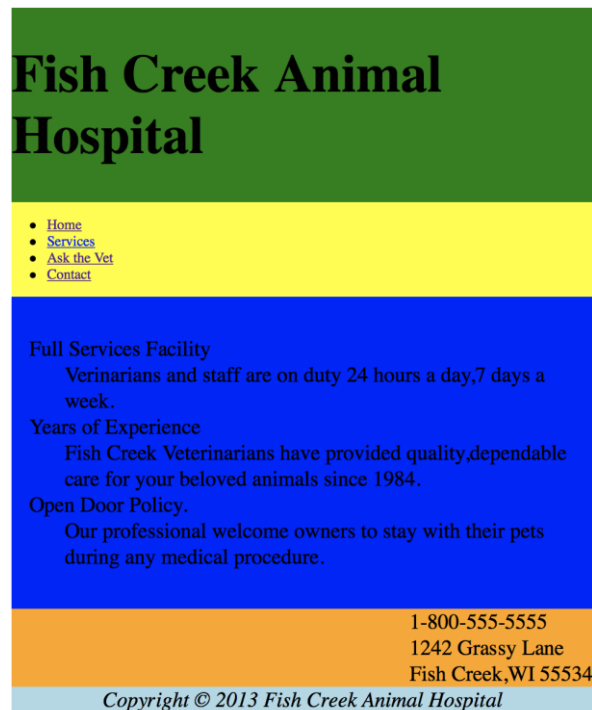
header{background:green; font-size: 30px;}
nav{background:yellow;}
section{background:blue;padding:20px;font-size: 24px;}
footer{background:lightblue; text-align:center;font-size: 24px;}
.left{display:flex; align-items:flex-end; justify-content:flex-end; background:orange; font-size: 24px;}
.flexbox-nav{display: flex; align-items:center; }
.flexbox-center{display: flex; justify-content:center; }

@media (min-width: 768px) {
  .grid-container{
    display: grid;
    grid-template-columns: 1fr 3fr 1fr;
    grid-template-rows: 100px 400px 100px;
  }

  header{grid-column:1/span 3; grid-row:1;}
  footer{grid-column:1/span 3; grid-row:3;}
  dl{color:white;}
  dd{padding-bottom:5%;}
  nav ul{list-style-type:none;font-size: 25px;}
  li{padding:10px;}
}
```

# What does the responsive website look like now?

## Mobile



The mobile website layout for Fish Creek Animal Hospital features a green header with the hospital's name. Below the header is a yellow navigation bar with a bulleted list of links: Home, Services, Ask the Vet, and Contact. The main content area has a blue background and contains four sections: Full Services Facility, Years of Experience, Open Door Policy, and contact information. The footer is orange and contains the same contact information and copyright notice.

**Fish Creek Animal Hospital**

- [Home](#)
- [Services](#)
- [Ask the Vet](#)
- [Contact](#)

**Full Services Facility**  
Verinarians and staff are on duty 24 hours a day,7 days a week.

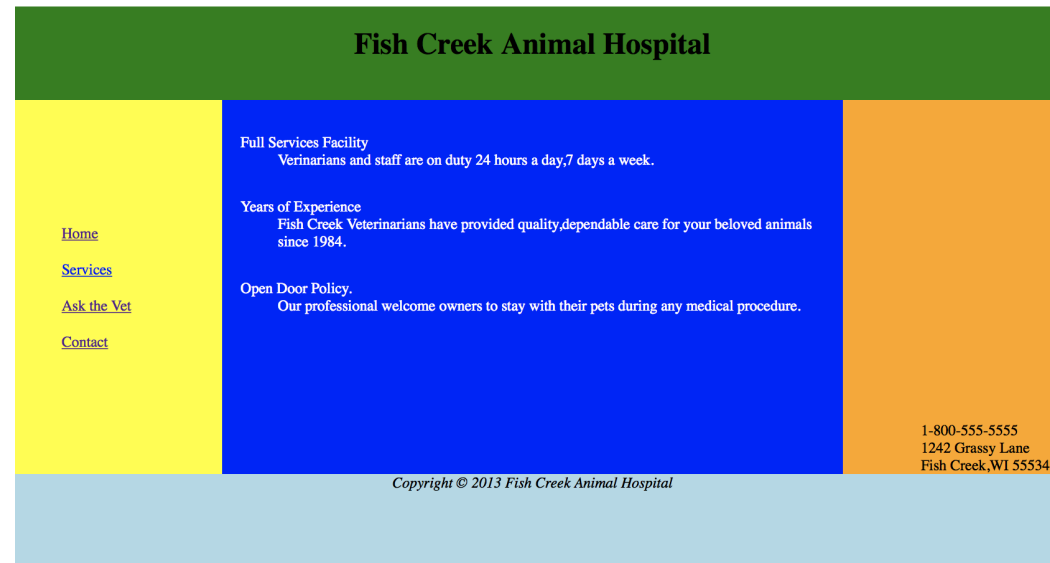
**Years of Experience**  
Fish Creek Veterinarians have provided quality,dependable care for your beloved animals since 1984.

**Open Door Policy.**  
Our professional welcome owners to stay with their pets during any medical procedure.

1-800-555-5555  
1242 Grassy Lane  
Fish Creek,WI 55534

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## Desktop



The desktop website layout for Fish Creek Animal Hospital features a green header with the hospital's name. Below the header is a blue navigation bar with a bulleted list of links: Home, Services, Ask the Vet, and Contact. The main content area has a blue background and contains four sections: Full Services Facility, Years of Experience, Open Door Policy, and contact information. The footer is orange and contains the same contact information and copyright notice.

**Fish Creek Animal Hospital**

- [Home](#)
- [Services](#)
- [Ask the Vet](#)
- [Contact](#)

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