

HTML5

Erek Göktürk



Nedir? Yenir mi?

- Web içerik dili HTML'in yeni sürümü
- Daha iyi belirlenmiş işletim semantiği
- Yeni elemanlar (tags) ve özellikler (attributes), bazıları da çöpe
- Ümit: Tarayıcılar arası farklılıklar azalacak

Ne yenilikler var?

- Yeni yapısal elemanlar -

| Tag | Description |
|--------------|--|
| <article> | Specifies independent, self-contained content, could be a news-article, blog post, forum post, or other articles which can be distributed independently from the rest of the site. |
| <bdi> | For text that should not be bound to the text-direction of its parent elements |
| <command> | A button, or a radiobutton, or a checkbox |
| <details> | For describing details about a document, or parts of a document |
| <summary> | A caption, or summary, inside the details element |
| <figure> | For grouping a section of stand-alone content, could be a video |
| <figcaption> | The caption of the figure section |

Ne yenilikler var?

- Yeni yapısal elemanlar -

| | |
|------------|--|
| <footer> | For a footer of a document or section, could include the name of the author, the date of the document, contact information, or copyright information |
| <header> | For an introduction of a document or section, could include navigation |
| <mark> | For text that should be highlighted |
| <meter> | For a measurement, used only if the maximum and minimum values are known |
| <nav> | For a section of navigation |
| <progress> | The state of a work in progress |
| <section> | For a section in a document. Such as chapters, headers, footers, or any other sections of the document |
| <time> | For defining a time or a date, or both |
| <wbr> | Word break. For defining a line-break opportunity. |

Ne yenilikler var?

- Yeni form elemanları -

| Tag | Description |
|------------|---|
| <datalist> | A list of options for input values |
| <keygen> | Generate keys to authenticate users |
| <output> | For different types of output, such as output written by a script |

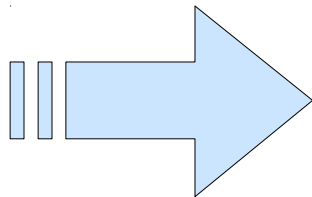
Ne yenilikler var?

- Yeni input türleri -

| Type | Description |
|----------------|--|
| tel | The input value is of type telephone number |
| search | The input field is a search field |
| url | The input value is a URL |
| email | The input value is one or more email addresses |
| datetime | The input value is a date and/or time |
| date | The input value is a date |
| month | The input value is a month |
| week | The input value is a week |
| time | The input value is of type time |
| datetime-local | The input value is a local date/time |
| number | The input value is a number |
| range | The input value is a number in a given range |
| color | The input value is a hexadecimal color, like #FF8800 |
| placeholder | Specifies a short hint that describes the expected value of an input field |

Metaveri için yeni bir yöntem: Microdata

```
<section itemscope itemtype="http://data-vocabulary.org/Person">
  Hello, my name is
  <span itemprop="name">John Doe</span>, I am a
  <span itemprop="title">graduate research assistant</span> at the
  <span itemprop="affiliation">University of Dreams</span>.
  My friends call me
  <span itemprop="nickname">Johnny</span>. You can visit my homepage at
  <a href="http://www.JohnnyD.com" itemprop="url">www.JohnnyD.com</a>.
  <section itemprop="address" itemscope
    itemtype="http://data-vocabulary.org/Address">
    I live at <span itemprop="street-address">1234 Peach Drive</span>
    <span itemprop="locality">Warner Robins</span>,
    <span itemprop="region">Georgia</span>.
  </section>
</section>
```



```
Item
Type: http://data-vocabulary.org/Person
name = John Doe
title = graduate research assistant
affiliation = University of Dreams
nickname = Johnny
url = http://www.johnnyd.com/
address = Item(1)
Item 1
Type: http://data-vocabulary.org/Address
street-address = 1234 Peach Drive
locality = Warner Robins
region = Georgia
```

Canvas

- Sonunda: Vektörel grafik çizebileceğiz
- `<canvas id="myCanvas" width="200" height="100"></canvas>`
- Javascript ile programlıyoruz
 - <http://www.whatwg.org/specs/web-apps/current-work/m>
 - Örnek:
http://www.w3schools.com/html5/html5_canvas.asp

Medya Oynatma

- **Video** (http://www.w3schools.com/html5/tryit.asp?filename=tryhtml5_video_all)

```
<video width="320" height="240" controls="controls">  
  <source src="movie.mp4" type="video/mp4" />  
  <source src="movie.ogg" type="video/ogg" />  
  Your browser does not support the video tag.  
</video>
```

| Format | IE | Firefox | Opera | Chrome | Safari |
|--------|------|---------|-------|--------|--------|
| Ogg | No | 3.5+ | 10.5+ | 5.0+ | No |
| MPEG 4 | 9.0+ | No | No | 5.0+ | 3.0+ |
| WebM | No | 4.0+ | 10.6+ | 6.0+ | No |

- **Ses** (http://www.w3schools.com/html5/tryit.asp?filename=tryhtml5_audio_all)

```
<audio controls="controls">  
  <source src="song.ogg" type="audio/ogg" />  
  <source src="song.mp3" type="audio/mpeg" />  
  Your browser does not support the audio element.  
</audio>
```

| Format | IE 9 | Firefox 3.5 | Opera 10.5 | Chrome 3.0 | Safari 3.0 |
|------------|------|-------------|------------|------------|------------|
| Ogg Vorbis | No | Yes | Yes | Yes | No |
| MP3 | Yes | No | No | Yes | Yes |
| Wav | No | Yes | Yes | Yes | Yes |

Sürükle-Bırak

- Neler sürüklenebilir? - Draggable özelliği

```
<div id="columns">  
  <div class="column" draggable="true"><header>A</header></div>  
  <div class="column" draggable="true"><header>B</header></div>  
  <div class="column" draggable="true"><header>C</header></div>  
</div>
```

- Kalanı için javascript olayları:
dragstart, drag, dragenter, dragleave,
dragover, drop, dragend

Web Deposu (storage)

- Kurabiye gibi elden ele dolaşmayan bir depo!
- Yerel depo (local storage)

```
<script type="text/javascript">  
    localStorage.adinedir="Hayrullah";  
    document.write(localStorage.lastname);  
</script>
```

- Oturum deposu (session storage)

- **Tarayıcı kapatıldığında siliniyor!**

```
<script type="text/javascript">  
    sessionStorage.adinedir="Hayrullah";  
    document.write(sessionStorage.lastname);  
</script>
```

Dahası da var

- Geolocation
- Indexed Database API
- Dosyalara ulaşım
- Tarayıcı tarihçesine ulaşım



Nede ne kadar bulunur?

- <http://html5readiness.com/>



Soru, sohbet, muhabbet...

