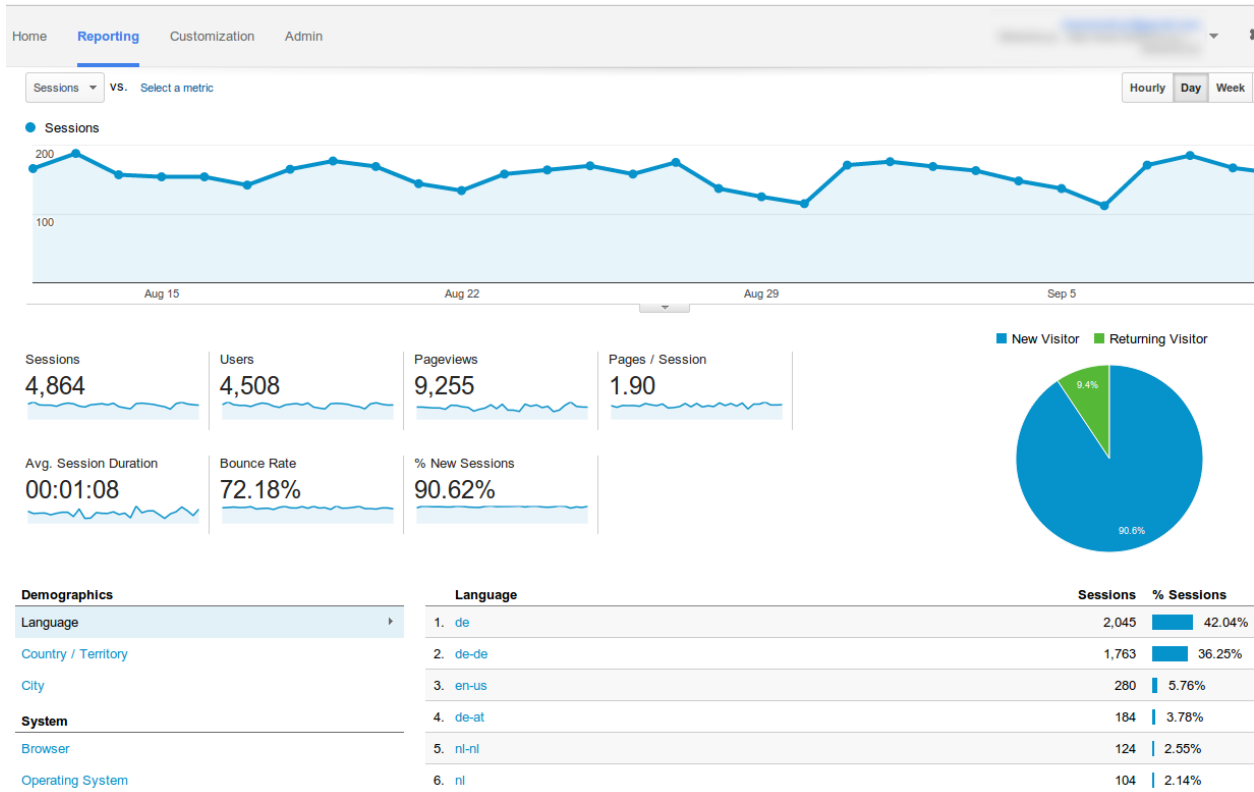


# Chapter 1: The Magic of SVG, D3.js, and AngularJS

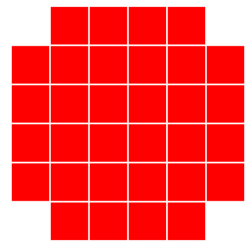
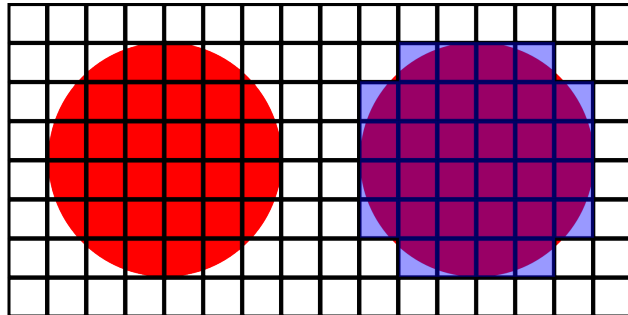
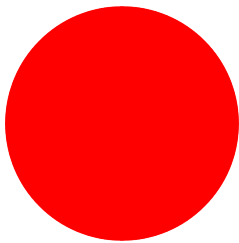
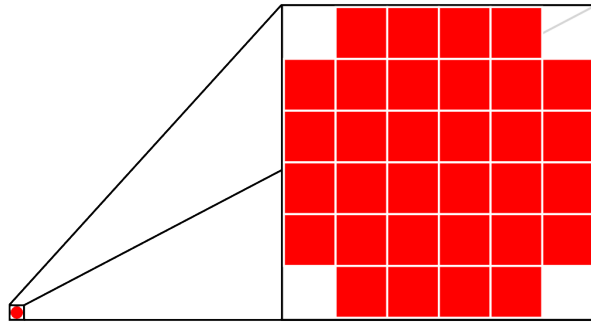
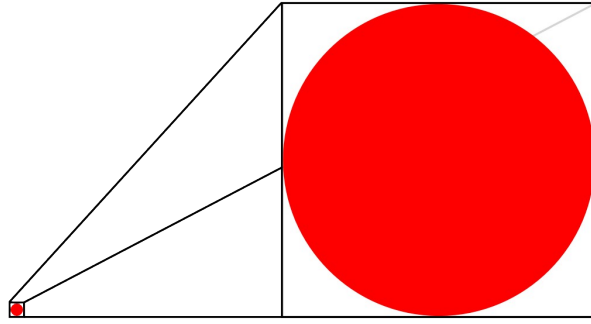


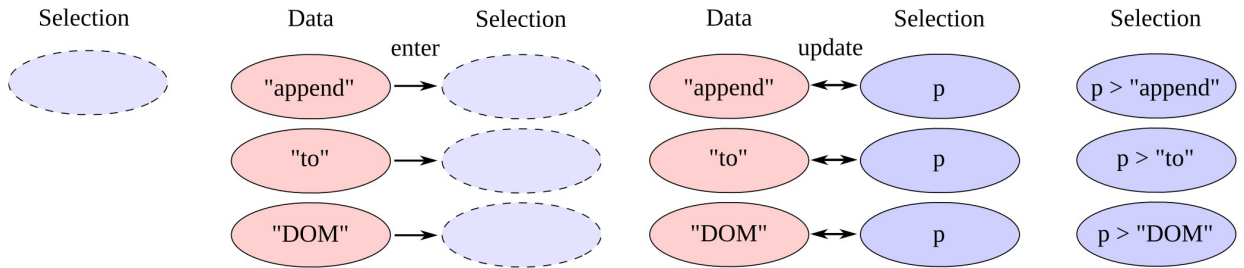
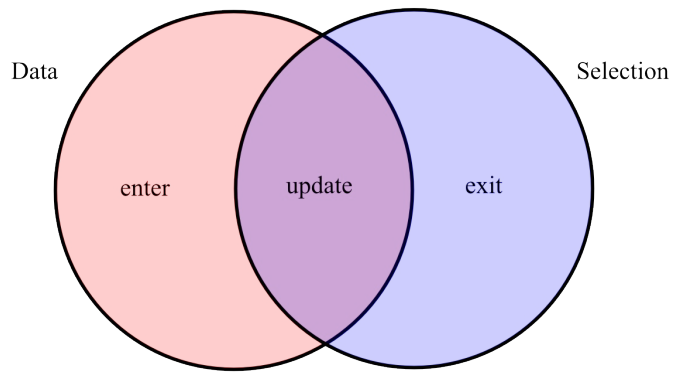
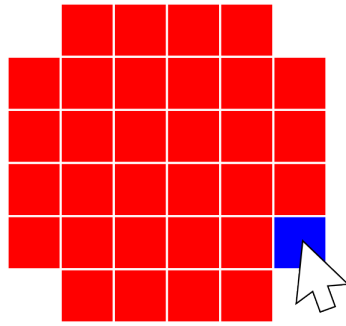
The screenshot shows the browser's developer tools with the 'Elements' tab selected. The HTML structure is as follows:

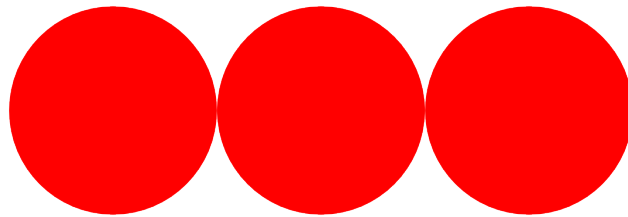
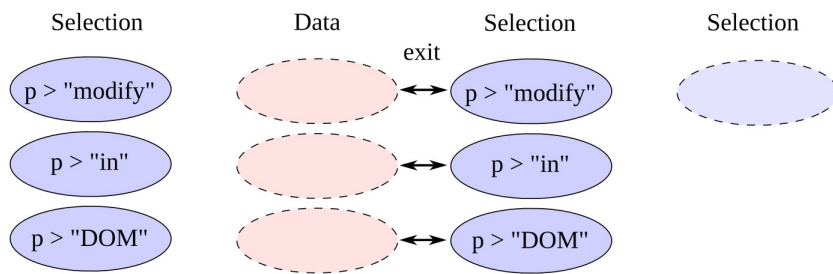
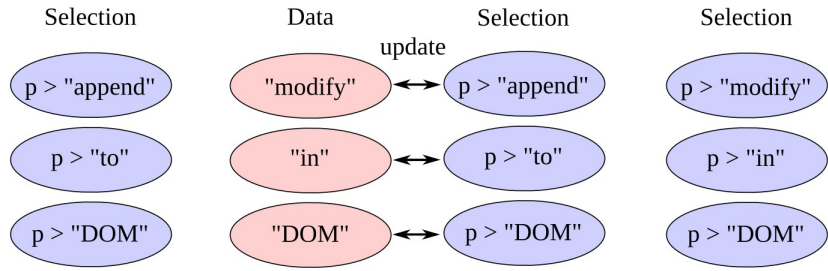
```
<!DOCTYPE html>
<html>
  <head></head>
  <body>
    <h1 class="header" ">My Application</h1>
    <p class="content">...</p>
  </body>
</html>
```

The 'Styles' panel on the right shows the default user agent styles for the `html` element:

```
html {
  user agent stylesheet
  display: block;
}
```

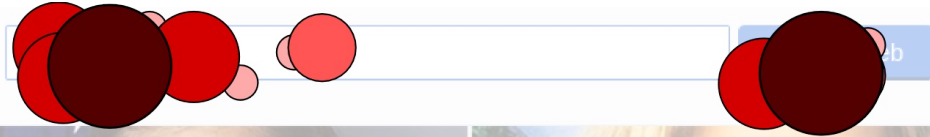




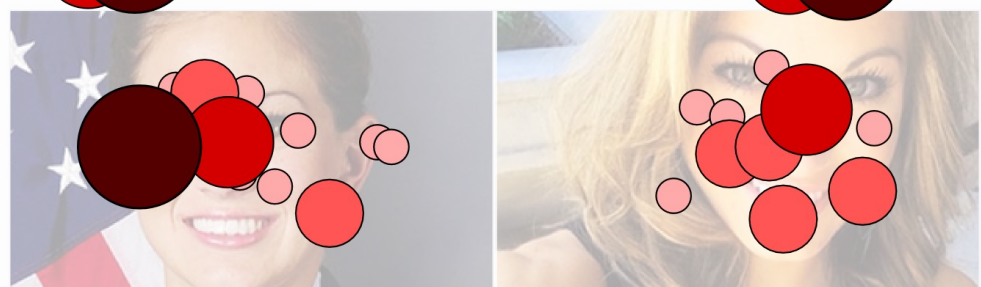


## Chapter 2: Getting Started with D3.js

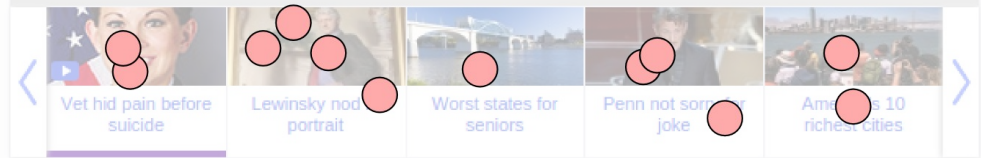
YAHOO!



- Email
- Sports
- Finance
- Weather
- Autos
- Homes
- Dating
- Shopping
- Makers
- Parenting



**She was beautiful, accomplished, loved, and in pain**  
 It wasn't until Air Force vet Jamie Brunette's suicide that her friends realized the extent of her PTSD. [▶ 'The biggest message' »](#) 1 - 5 of 60



Some fruits:

- Apple
- Banana
- Orange

Some fruits:

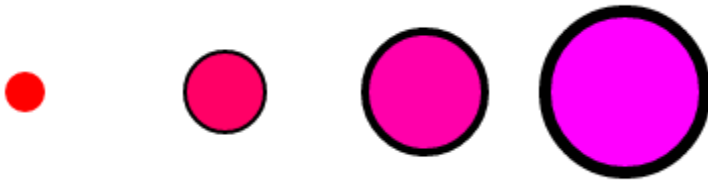
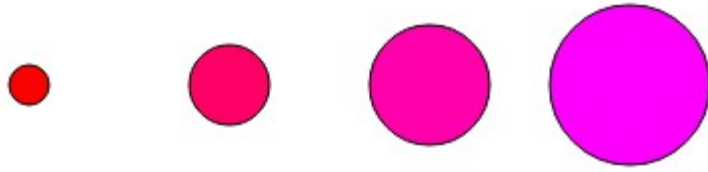


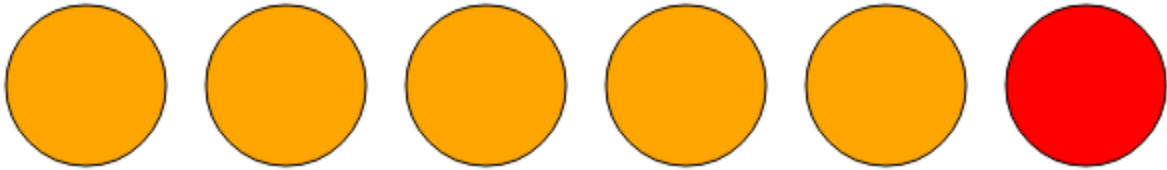
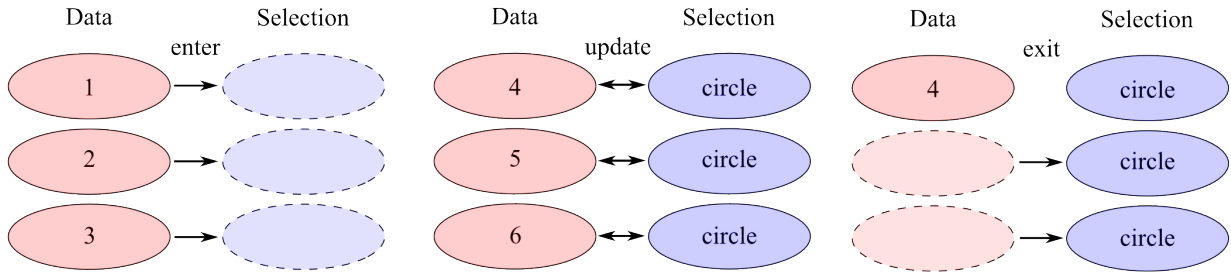
Some shapes:



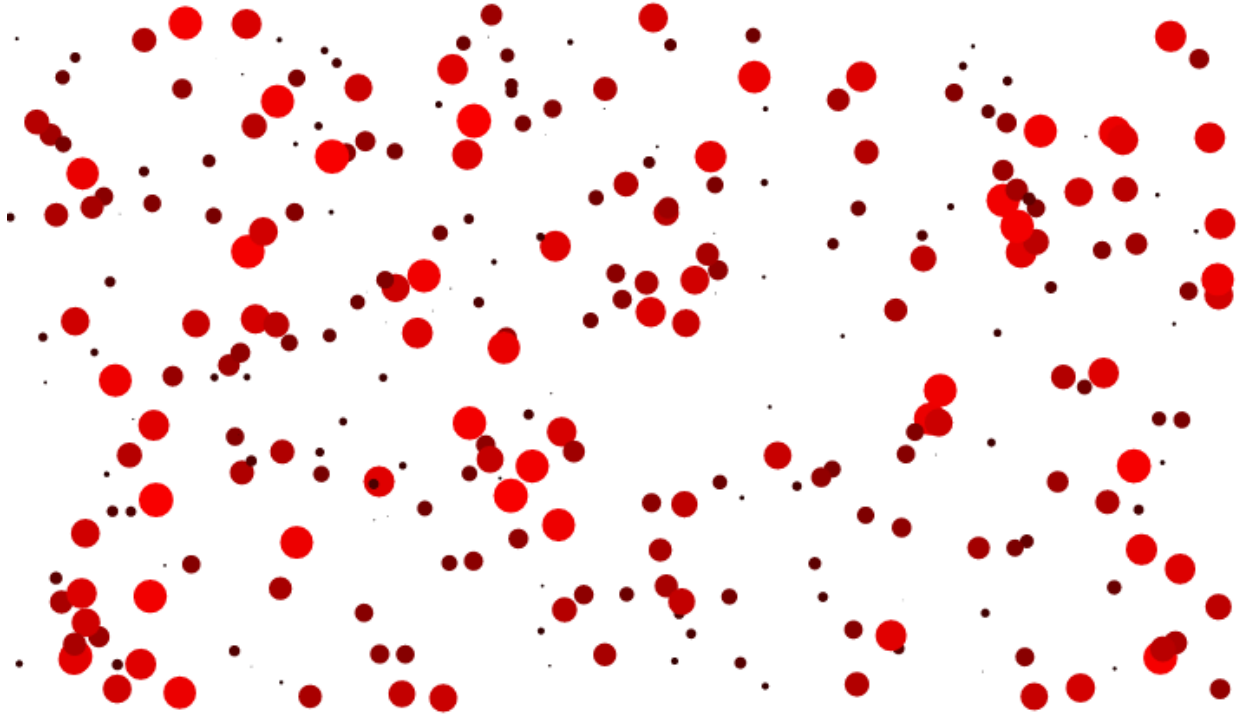
Some shapes:











## Chapter 3: Manipulating Data

svg

[0, 2, 4, 6, 8, 10]

0 2 4 6 8 10

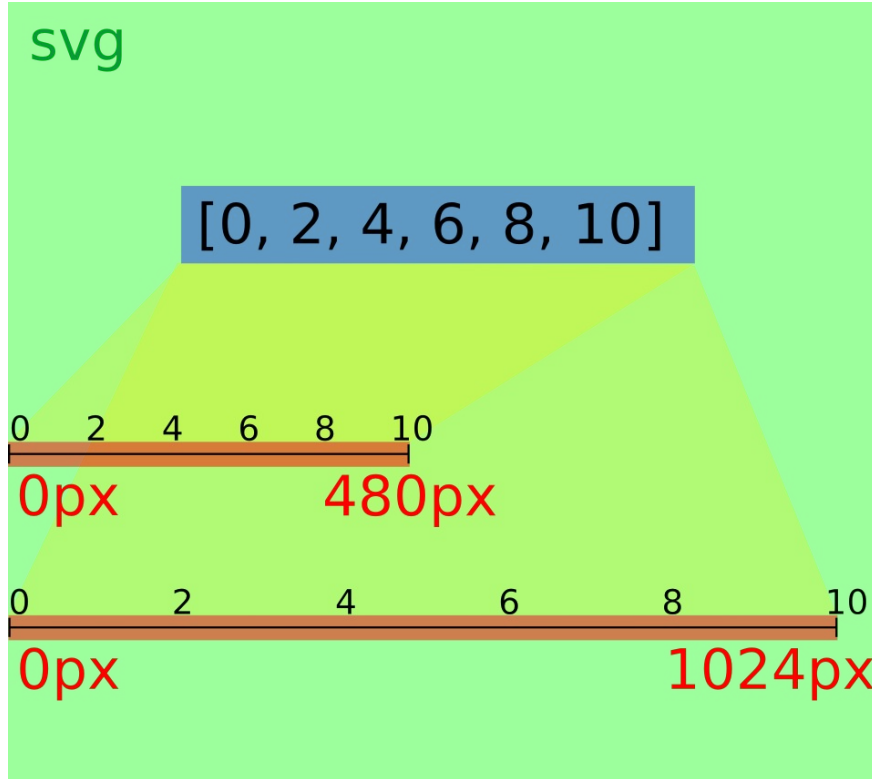
0px

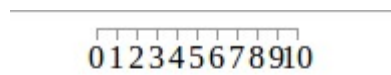
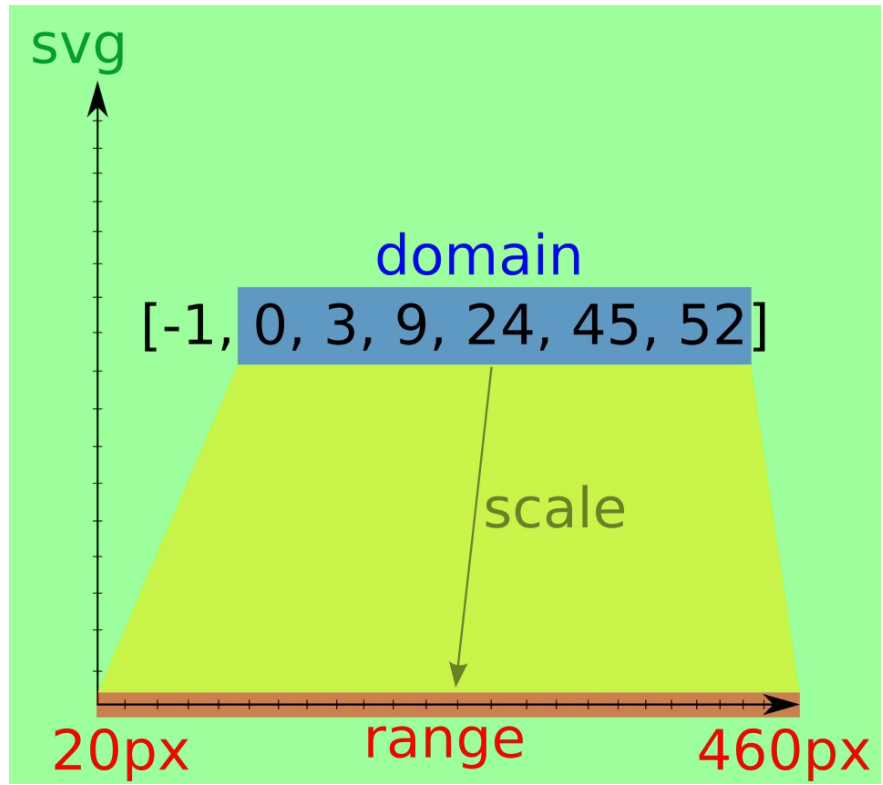
480px

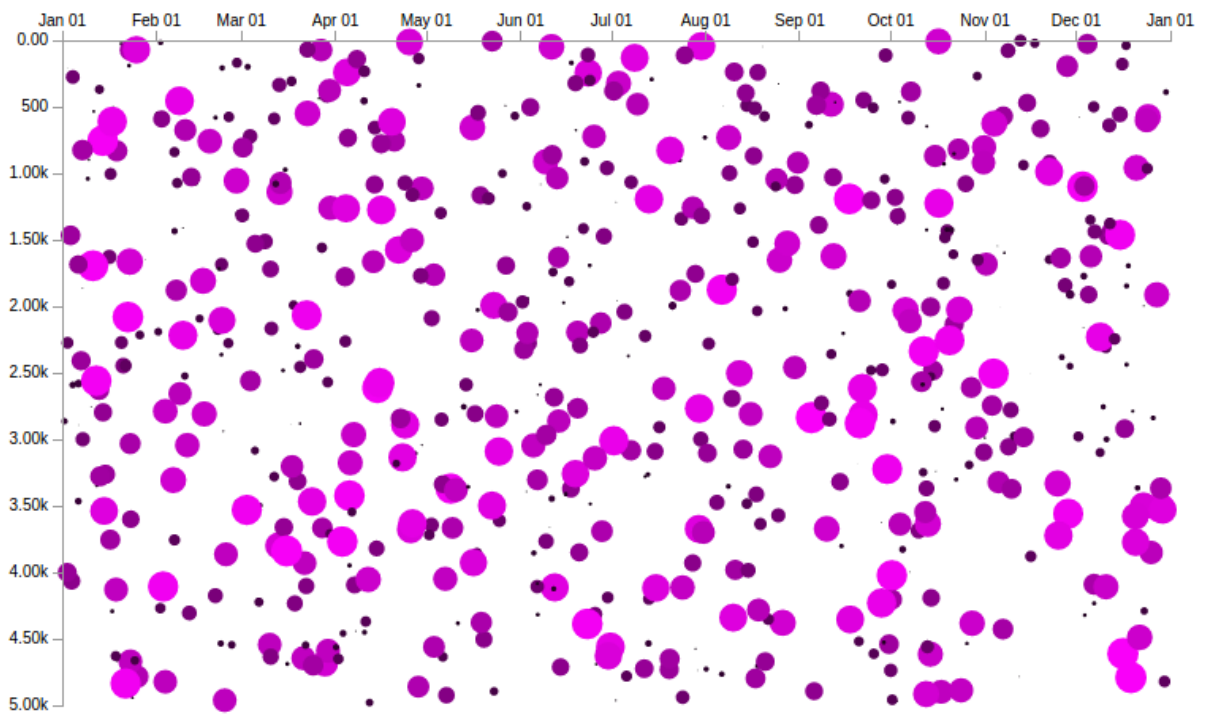
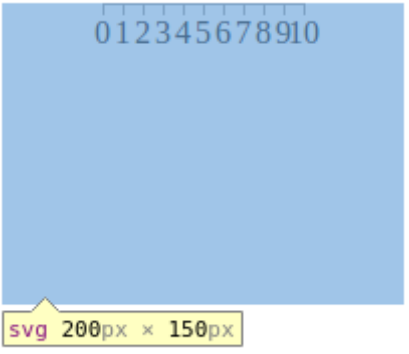
0 2 4 6 8 10

0px

1024px



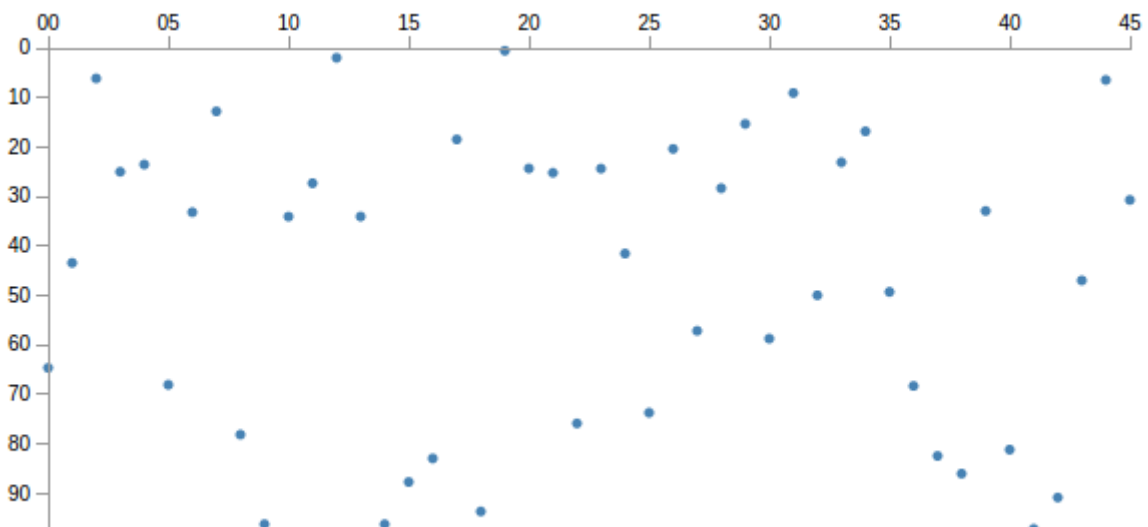


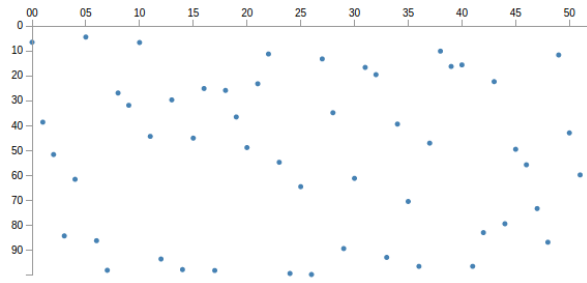
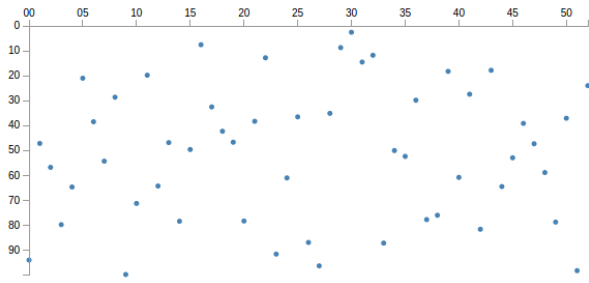
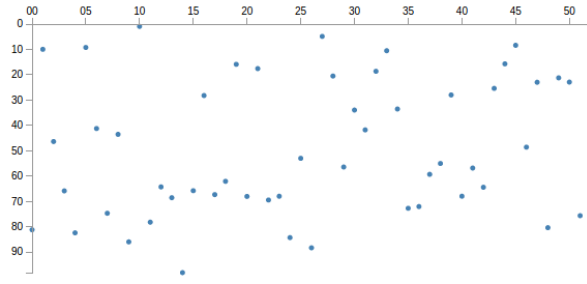
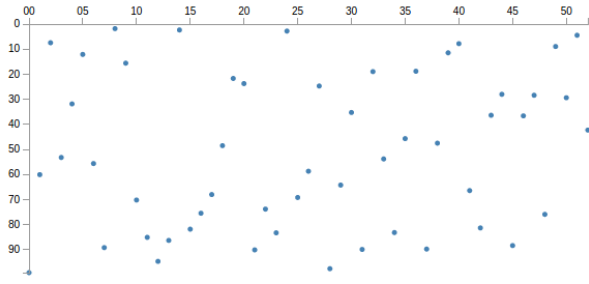


## Chapter 4: Building a Chart Directive

```
Q Elements Network Sources Timeline Profiles Resources Audits Console
▼ <html ng-app="myApp" class="ng-scope">
  ▶ <head>...</head>
  ▼ <body>
    <!-- index.html -->
    ▼ <div ng-controller="MainCtrl" class="ng-scope">
      <!-- We can use the visualization directives here -->
      <!-- The first chart -->
      ▼ <my-scatter-chart class="chart ng-isolate-scope">
        ▶ <svg>...</svg>
      </my-scatter-chart>
      <!-- A second chart -->
      ▼ <my-scatter-chart class="chart ng-isolate-scope">
        ▶ <svg>...</svg>
      </my-scatter-chart>
      <!-- Another chart -->
      ▼ <my-scatter-chart class="chart ng-isolate-scope">
        ▶ <svg>...</svg>
      </my-scatter-chart>
    </div>
  </body>
</html>
```

html.ng-scope body div.ng-scope





```
ckoerner@ckoerner-ThinkPad-T430: ~/Dropbox/not-private/Projekte/Interactive Data Visualizations with AngularJS and D3.js/chapter_4/code$ karma init test/config/karma.conf.js

Which testing framework do you want to use ?
Press tab to list possible options. Enter to move to the next question.
> jasmine

Do you want to use Require.js ?
This will add Require.js plugin.
Press tab to list possible options. Enter to move to the next question.
> no

Do you want to capture any browsers automatically ?
Press tab to list possible options. Enter empty string to move to the next question.
> Chrome
>

What is the location of your source and test files ?
You can use glob patterns, eg. "js/*.js" or "test/**/*.spec.js".
Enter empty string to move to the next question.
> test/spec/**/*.spec.js
>

Should any of the files included by the previous patterns be excluded ?
You can use glob patterns, eg. "**/*.swp".
Enter empty string to move to the next question.
>

Do you want Karma to watch all the files and run the tests on change ?
Press tab to list possible options.
> yes

Config file generated at "/home/ckoerner/Dropbox/not-private/Projekte/Interactive Data Visualizations with AngularJS and D3.js/chapter_4/code/test/config/karma.conf.js".

ckoerner@ckoerner-ThinkPad-T430:~/Dropbox/not-private/Projekte/Interactive Data
```

```
ckoerner@ckoerner-ThinkPad-T430: ~/Dropbox/not-private/Projekte/Interactive Data Visualizations with AngularJS and D3.js/chapter_4/code$ karma start test/config/karma.conf.js
INFO [karma]: Karma v0.12.24 server started at http://localhost:9876/
INFO [launcher]: Starting browser Chrome
INFO [Chromium 34.0.1847 (Ubuntu)]: Connected on socket ytUb6pkQhsVqBzp1-J9a with id 96583138
Chromium 34.0.1847 (Ubuntu): Executed 0 of 0 ERROR (0.011 secs / 0 secs)
```

```
ckoerner@ckoerner-ThinkPad-T430: ~/Dropbox/not-private/Projekte/Interactive Data Visualizations with AngularJS and D3.js/chapter_4/code$ karma start test/config/karma.conf.js
INFO [karma]: Karma v0.12.24 server started at http://localhost:9876/
INFO [launcher]: Starting browser Chrome
INFO [Chromium 34.0.1847 (Ubuntu)]: Connected on socket ytUb6pkQhsVqBzp1-J9a with id 96583138
Chromium 34.0.1847 (Ubuntu): Executed 0 of 0 ERROR (0.011 secs / 0 secs)
INFO [watcher]: Changed file "/home/ckoerner/Dropbox/not-private/Projekte/Interactive Data Visualizations with AngularJS and D3.js/chapter_4/code/test/spec/chart.spec.js".
Chromium 34.0.1847 (Ubuntu): Executed 3 of 3 SUCCESS (0.115 secs / 0.112 secs)
INFO [watcher]: Changed file "/home/ckoerner/Dropbox/not-private/Projekte/Interactive Data Visualizations with AngularJS and D3.js/chapter_4/code/test/spec/chart.spec.js".
Chromium 34.0.1847 (Ubuntu): Executed 3 of 3 SUCCESS (0.135 secs / 0.127 secs)
INFO [watcher]: Changed file "/home/ckoerner/Dropbox/not-private/Projekte/Interactive Data Visualizations with AngularJS and D3.js/chapter_4/code/test/spec/chart.spec.js".
Chromium 34.0.1847 (Ubuntu): Executed 3 of 3 SUCCESS (0.094 secs / 0.083 secs)
```

```
ckoerner@ckoerner-ThinkPad-T430: ~/Dropbox/not-private/Projekte/Interactive Data Visualizations with AngularJS and D3.js/chapter_4/code$ protractor test/config/protractor.conf.js
Using the selenium server at http://localhost:4444/wd/hub

Finished in 0.007 seconds
0 tests, 0 assertions, 0 failures

ckoerner@ckoerner-ThinkPad-T430:~/Dropbox/not-private/Projekte/Interactive Data Visualizations with AngularJS and D3.js/chapter_4/code$
```

## Chapter 5: Loading and Parsing Data





Time	IP	Method	URL	Status	Message
66.249.64.121	-	GET	/robots.txt HTTP/1.1	302 507	"Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)"
66.249.64.129	-	GET	/ HTTP/1.1	302 487	"Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)"
66.249.64.125	-	GET	/plan.php/werfenweng HTTP/1.1	302 525	"Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)"
66.249.64.121	-	GET	/orte.php/rohrmoos/hotelkritik?hid=2275 HTTP/1.1	302 563	"Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)"
207.46.13.8	-	GET	/robots.txt HTTP/1.1	302 507	"Mozilla/5.0 (compatible; bingbot/2.0; +http://www.bing.com/bingbot.htm)"
207.46.13.8	-	GET	/orte.php/lech_am_arlberg/beschreibung HTTP/1.1	302 561	"Mozilla/5.0 (compatible; bingbot/2.0; +http://www.bing.com/bingbot.htm)"
109.173.98.23	-	GET	/ HTTP/1.0	302 483	"http://newworldmayfair.com/" "Mozilla/5.0 (Windows; U; Windows NT 5.1; rv:1.9.2.3) Gecko Firefox/3.6.3 (.NET CLR 3.5.30729)"
157.55.39.49	-	GET	/robots.txt HTTP/1.1	302 503	"Mozilla/5.0 (compatible; bingbot/2.0; +http://www.bing.com/bingbot.htm)"
157.55.39.50	-	GET	/ HTTP/1.1	302 483	"Mozilla/5.0 (compatible; bingbot/2.0; +http://www.bing.com/bingbot.htm)"
2001:41d0:1:91b1::1	-	GET	/ HTTP/1.1	302 483	"Mozilla/4.0 (compatible; MSIE 6.0; Windows NT)"
5.255.253.49	-	GET	/robots.txt HTTP/1.1	302 503	"Mozilla/5.0 (compatible; YandexBot/3.0; +http://yandex.com/bots)"
5.255.253.49	-	GET	/robots.txt HTTP/1.1	302 507	"Mozilla/5.0 (compatible; YandexBot/3.0; +http://yandex.com/bots)"
5.255.253.49	-	GET	/ HTTP/1.1	302 483	"Mozilla/5.0 (compatible; YandexBot/3.0; +http://yandex.com/bots)"
5.255.253.49	-	GET	/ HTTP/1.1	302 487	"Mozilla/5.0 (compatible; YandexBot/3.0; +http://yandex.com/bots)"

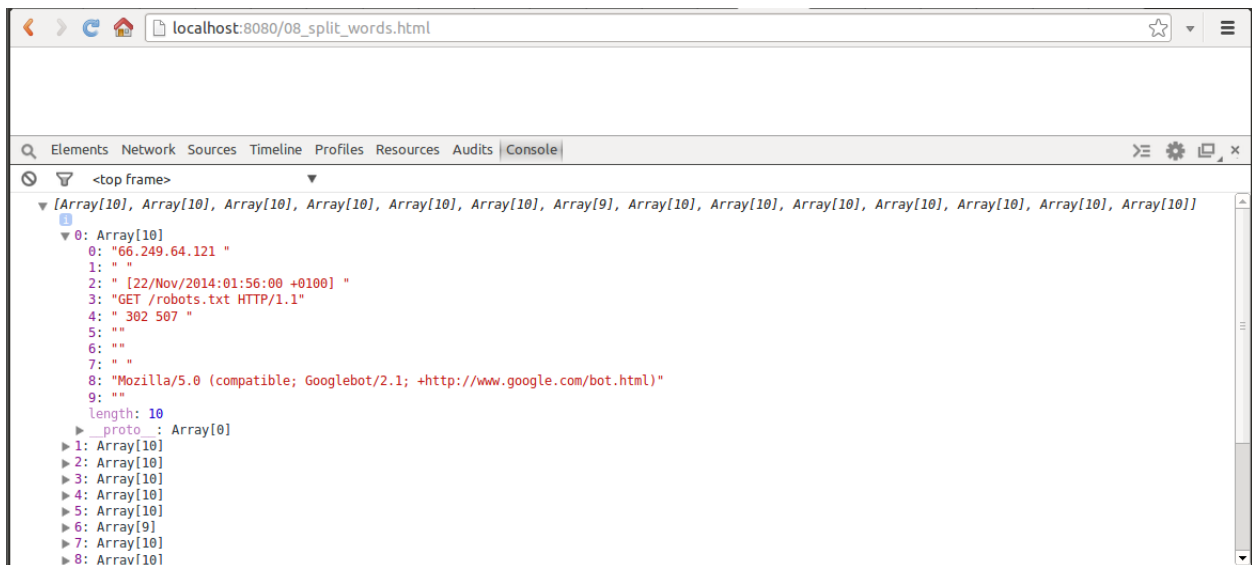
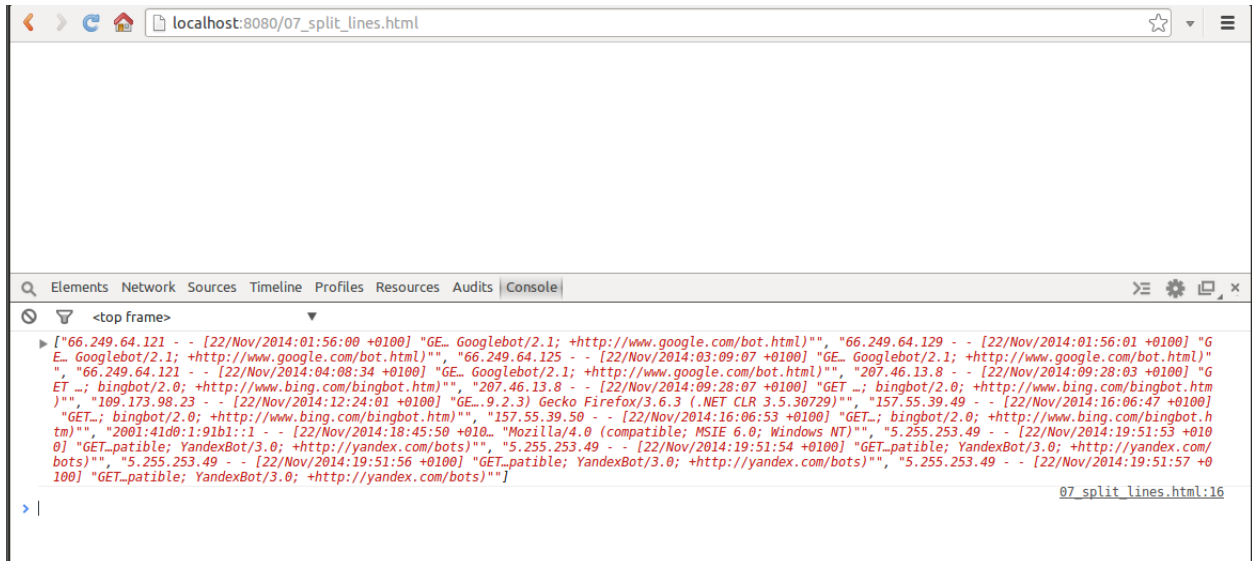
02\_xhr\_d3.html:11

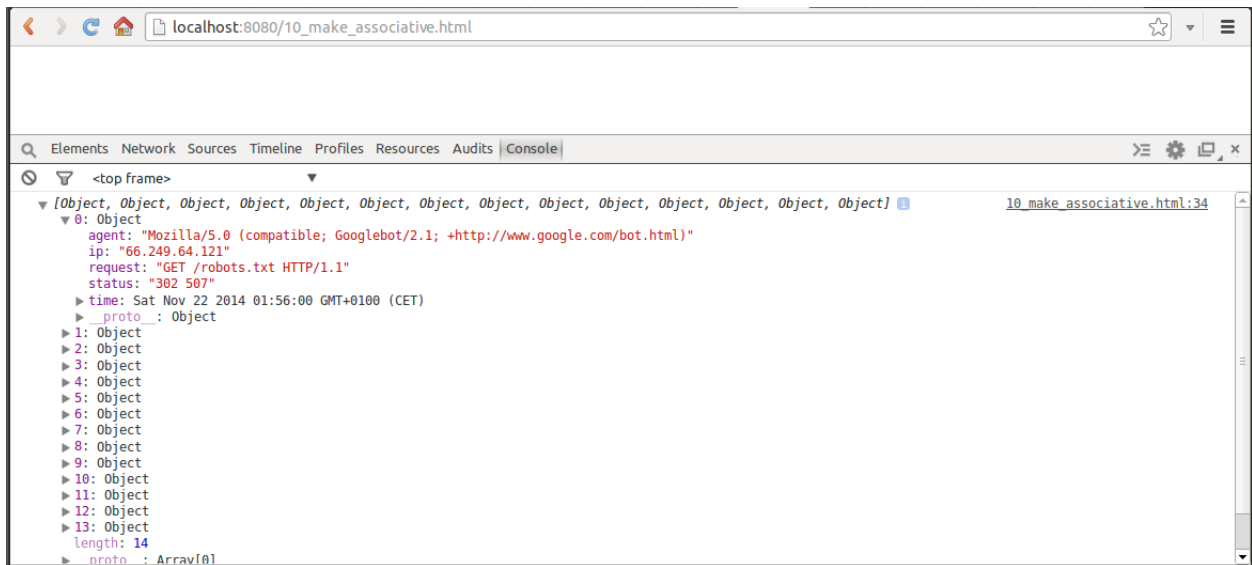
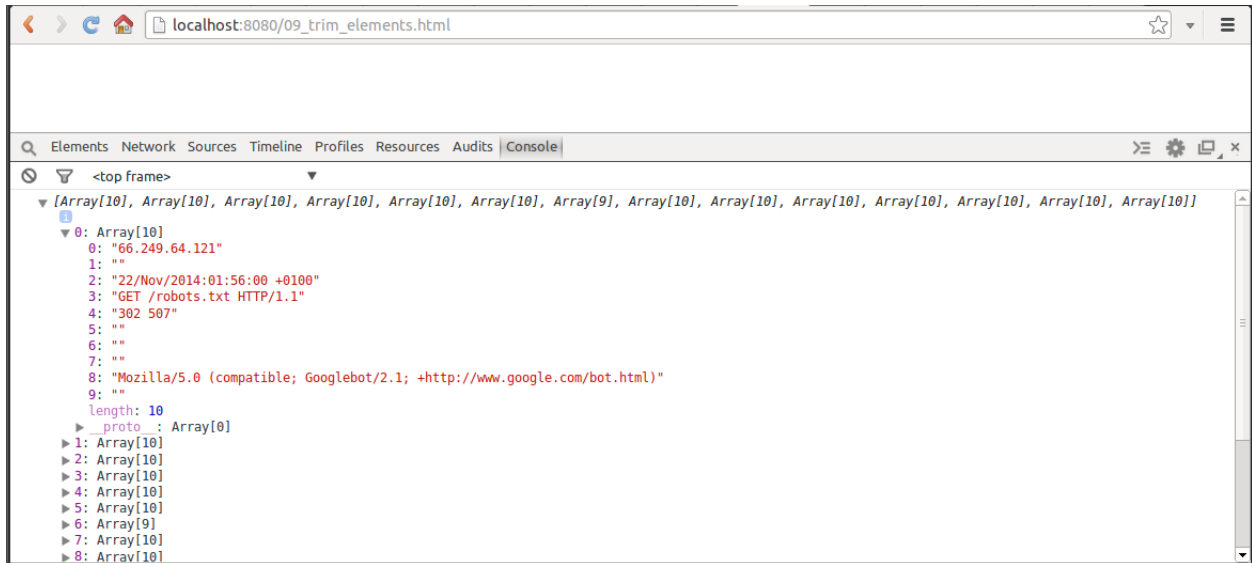
### files/access.log

66.249.64.121 - - [22/Nov/2014:01:56:00 +0100] "GET /index.html HTTP/1.1" 200 2507 "-" "Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36" 66.249.64.129 - - [22/Nov/2014:01:56:01 +0100] "GET / HTTP/1.1" 200 2487 "-" "Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36" 66.249.64.125 - - [22/Nov/2014:03:09:07 +0100] "GET /about.html HTTP/1.1" 200 2525 "-" "Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36" 66.249.64.121 - - [22/Nov/2014:04:08:34 +0100] "GET /index.html HTTP/1.1" 200 563 "-" "Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36" 207.46.13.8 - - [22/Nov/2014:09:28:03 +0100] "GET /index.html HTTP/1.1" 200 2507 "-" "Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36" 207.46.13.8 - - [22/Nov/2014:09:28:07 +0100] "GET /about.html HTTP/1.1" 200 2561 "-" "Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36" 109.173.98.23 - - [22/Nov/2014:12:24:01 +0100] "GET /index.html HTTP/1.0" 200 2483 "-" "Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36" 157.55.39.49 - - [22/Nov/2014:16:06:47 +0100] "GET /index.html HTTP/1.1" 200 2503 "-" "Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36" 157.55.39.50 - - [22/Nov/2014:16:06:53 +0100] "GET / HTTP/1.1" 200 2483 "-" "Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36" 2001:41d0:1:91b1::1 - - [22/Nov/2014:18:45:50 +0100] "GET / HTTP/1.1" 200 2483 "-" "Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36" 5.255.253.49 - - [22/Nov/2014:19:51:53 +0100] "GET /index.html HTTP/1.1" 200 2503 "-" "Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36" 5.255.253.49 - - [22/Nov/2014:19:51:54 +0100] "GET /index.html HTTP/1.1" 200 2507 "-" "Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36" 5.255.253.49 - - [22/Nov/2014:19:51:56 +0100] "GET /about.html HTTP/1.1" 200 2483 "-" "Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36" 5.255.253.49 - - [22/Nov/2014:19:51:57 +0100] "GET /about.html HTTP/1.1" 200 2487 "-" "Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36"

```
ckoerner@ckoerner-ThinkPad-T430: ~/Dropbox/not-private/Projekte/Interactive Data Visualizations with AngularJS and D3.js/chapter_5/code$ karma start test/config/karma.conf.js
INFO [karma]: Karma v0.12.24 server started at http://localhost:9876/
INFO [launcher]: Starting browser Chrome
INFO [Chromium 34.0.1847 (Ubuntu)]: Connected on socket BCLz2Yzs4AVAZYBGT7GN with id 3388502
Chromium 34.0.1847 (Ubuntu): Executed 1 of 4 (skipped 3) SUCCESS (0.04 secs / 0.035 secs)
```

```
ckoerner@ckoerner-ThinkPad-T430: ~/Dropbox/not-private/Projekte/Interactive Data Visualizations with AngularJS and D3.js/chapter_5/code$ karma start test/config/karma.conf.js
INFO [karma]: Karma v0.12.24 server started at http://localhost:9876/
INFO [launcher]: Starting browser Chrome
INFO [Chromium 34.0.1847 (Ubuntu)]: Connected on socket sezM6qTnhjo-hh3k3qZs with id 2838904
Chromium 34.0.1847 (Ubuntu): Executed 1 of 5 (skipped 4) SUCCESS (0.033 secs / 0.03 secs)
```





localhost:8000/11\_string\_parser.html

Apps Discrete Event Mobile Work Embedded Web Uni Programming Design SVG Crowbar EPFL Français - D Englisch - Deut

files/access.log

Date: "2014-11-22T00:56:00.000Z" IP: 66.249.64.121 Request: GET /index.html HTTP/1.1

---

Date: "2014-11-22T00:56:01.000Z" IP: 66.249.64.129 Request: GET / HTTP/1.1

---

Date: "2014-11-22T02:09:07.000Z" IP: 66.249.64.125 Request: GET /about.html HTTP/1.1

---

Date: "2014-11-22T03:08:34.000Z" IP: 66.249.64.121 Request: GET /index.html HTTP/1.1

---

Date: "2014-11-22T08:28:03.000Z" IP: 207.46.13.8 Request: GET /index.html HTTP/1.1

---

Date: "2014-11-22T08:28:07.000Z" IP: 207.46.13.8 Request: GET /about.html HTTP/1.1

---

Date: "2014-11-22T11:24:01.000Z" IP: 109.173.98.23 Request: GET /index.html HTTP/1.0

---

Date: "2014-11-22T15:06:47.000Z" IP: 157.55.39.49 Request: GET /index.html HTTP/1.1

---

Date: "2014-11-22T15:06:53.000Z" IP: 157.55.39.50 Request: GET / HTTP/1.1

---

Date: "2014-11-22T17:45:50.000Z" IP: 2001:41d0:1:91b1::1 Request: GET / HTTP/1.1

---

Date: "2014-11-22T18:51:53.000Z" IP: 5.255.253.49 Request: GET /index.html HTTP/1.1

---

Date: "2014-11-22T18:51:54.000Z" IP: 5.255.253.49 Request: GET /index.html HTTP/1.1

---

Date: "2014-11-22T18:51:56.000Z" IP: 5.255.253.49 Request: GET /about.html HTTP/1.1

---

Date: "2014-11-22T18:51:57.000Z" IP: 5.255.253.49 Request: GET /about.html HTTP/1.1

```
ckoerner@ckoerner-ThinkPad-T430: ~/Dropbox/not-private/Projekte/Interactive Data Visualizations with AngularJS and D3.js$ karma start test/config/karma.conf.js
INFO [karma]: Karma v0.12.24 server started at http://localhost:9876/
INFO [launcher]: Starting browser Chrome
INFO [Chromium 34.0.1847 (Ubuntu)]: Connected on socket Gtw3ZPpeVpUOY2RacVK0 with id 86937106
Chromium 34.0.1847 (Ubuntu): Executed 1 of 6 (skipped 5) SUCCESS (0.03 secs / 0.027 secs)
```

files/access.log

Key: Nov 22, 2014 1:55:00 AM Elements: [{"time":1416617760000,"ip":"66.249.64.121","request":"GET /index.html HTTP/1.1","status":"200 2507","agent":"Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36"}, {"time":1416617761000,"ip":"66.249.64.129","request":"GET / HTTP/1.1","status":"200 2487","agent":"Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36"}]

Key: Nov 22, 2014 3:10:00 AM Elements: [{"time":1416622147000,"ip":"66.249.64.125","request":"GET /about.html HTTP/1.1","status":"200 2525","agent":"Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36"}]

Key: Nov 22, 2014 4:10:00 AM Elements: [{"time":1416625714000,"ip":"66.249.64.121","request":"GET /index.html HTTP/1.1","status":"200 563","agent":"Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36"}]

Key: Nov 22, 2014 9:30:00 AM Elements: [{"time":1416644883000,"ip":"207.46.13.8","request":"GET /index.html HTTP/1.1","status":"200 2507","agent":"Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36"}, {"time":1416644887000,"ip":"207.46.13.8","request":"GET /about.html HTTP/1.1","status":"200 2561","agent":"Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36"}]

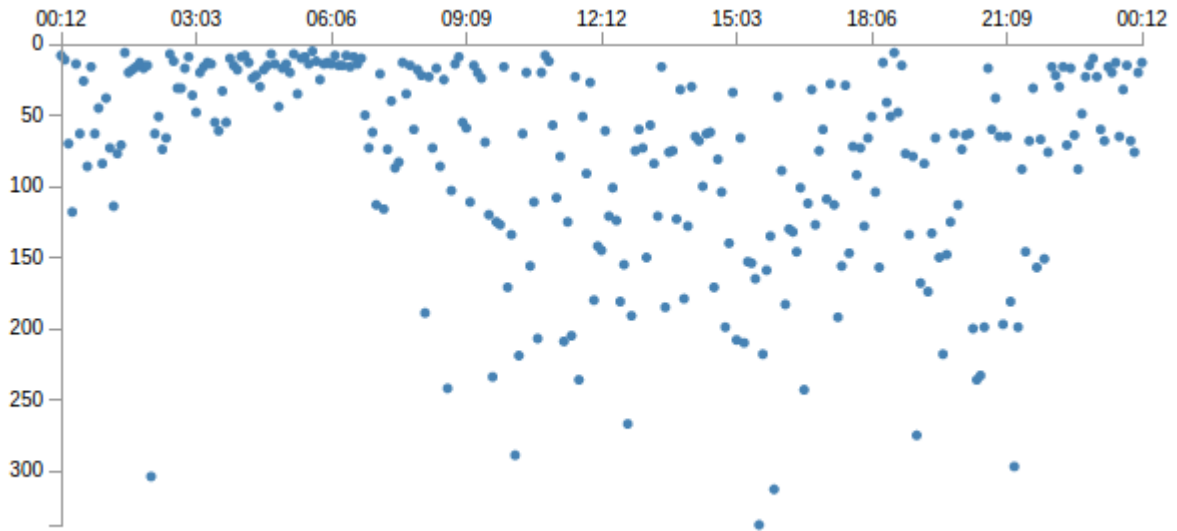
Key: Nov 22, 2014 12:25:00 PM Elements: [{"time":1416655441000,"ip":"109.173.98.23","request":"GET /index.html HTTP/1.0","status":"200 2483","agent":"Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36"}]

Key: Nov 22, 2014 4:05:00 PM Elements: [{"time":1416668807000,"ip":"157.55.39.49","request":"GET /index.html HTTP/1.1","status":"200 2503","agent":"Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36"}, {"time":1416668813000,"ip":"157.55.39.50","request":"GET / HTTP/1.1","status":"200 2483","agent":"Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36"}]

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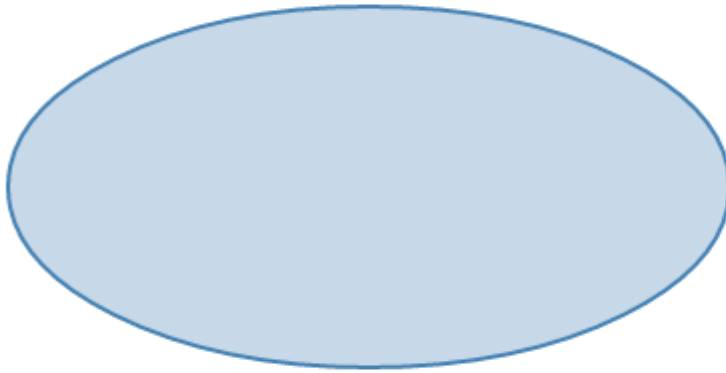
Key: Nov 22, 2014 7:50:00 PM Elements: [{"time":1416682313000,"ip":"5.255.253.49","request":"GET /index.html HTTP/1.1","status":"200 2503","agent":"Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36"}, {"time":1416682316000,"ip":"5.255.253.49","request":"GET /about.html HTTP/1.1","status":"200 2483","agent":"Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36"}, {"time":1416682317000,"ip":"5.255.253.49","request":"GET /about.html HTTP/1.1","status":"200 2487","agent":"Mozilla/5.0 (X11; Linux x86\_64) AppleWebKit/537.36 (KHTML, like Gecko) Ubuntu Chromium/41.0.2272.76 Chrome/41.0.2272.76 Safari/537.36"}]

```
ckoerner@ckoerner-ThinkPad-T430: ~/Dropbox/not-private/Projekte/Interactive Data Visualizations with AngularJS and D3.js/chapter_5/code$ karma start test/config/karma.conf.js
INFO [karma]: Karma v0.12.31 server started at http://localhost:9876/
INFO [launcher]: Starting browser Chrome
INFO [Chromium 41.0.2272 (Ubuntu)]: Connected on socket vQ_oWTH8A1X48FXDUxt9 with id 50372043
Chromium 41.0.2272 (Ubuntu): Executed 8 of 8 SUCCESS (0.225 secs / 0.22 secs)
```

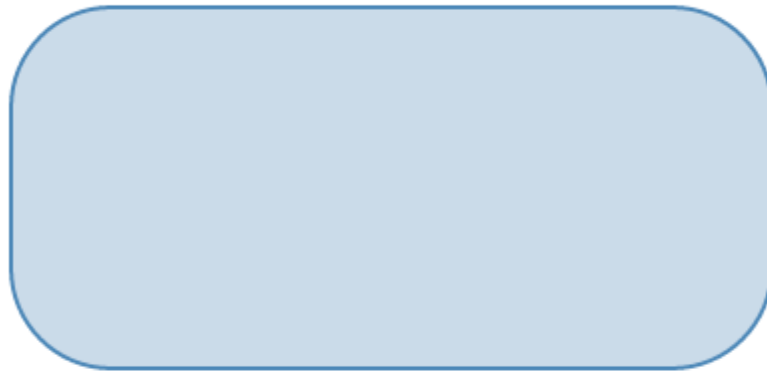


## Chapter 6: Drawing Curves and Shapes





```
Q Elements Network Sources Timeline Profiles Resources Audits
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  ▼ <body>
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  </body>
</html>
```



```
Q Elements Network Sources Timeline Profiles Resources Audits
▼ <html>
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  ▼ <body>
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    ▼ <svg width="400" height="400">
      <rect x="10" y="110" width="380" height="180" rx="50"></rect>
    </svg>
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</html>
```



```
Q Elements | Network Sources Timeline Profiles Resources Audits Console
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    </svg>
  </body>
</html>
```



```
Q Elements Network Sources Timeline Profiles Resources Audits Console
▼ <html>
  ▶ <head>...</head>
  ▼ <body>
    ▶ <script type="text/javascript">...</script>
    ▼ <svg width="800" height="400">
      <path d="M350,75 L379,161 469,161 397,215 423,301 350,250 277,301 303,215 231,161 321,161 z"></path>
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```



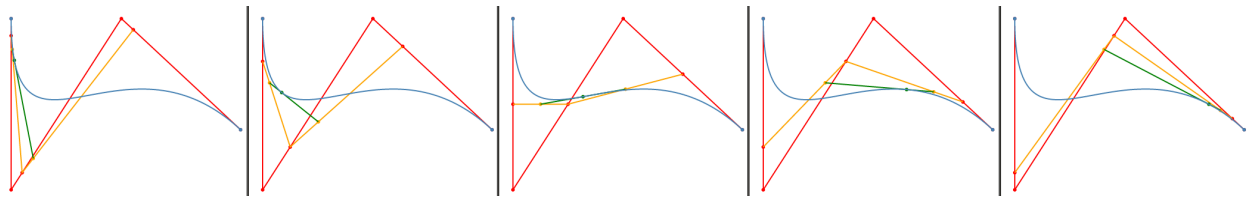
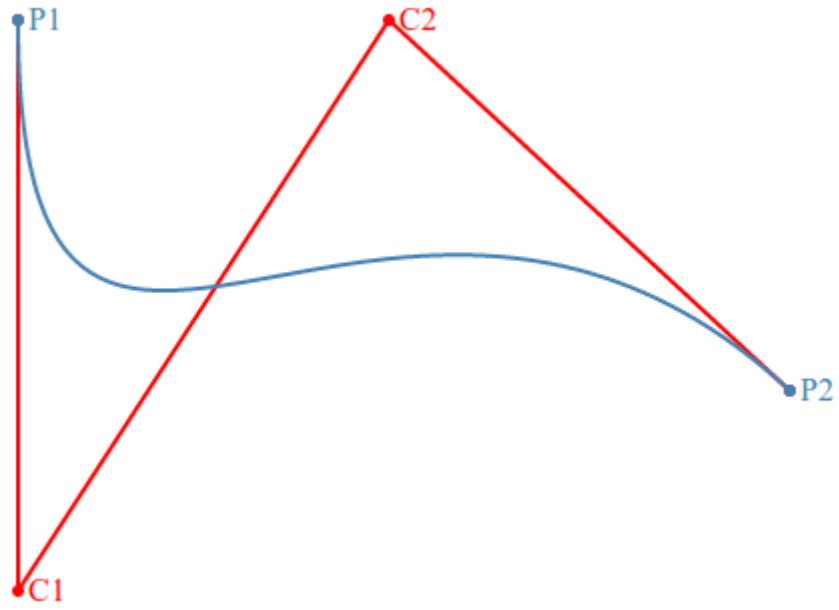


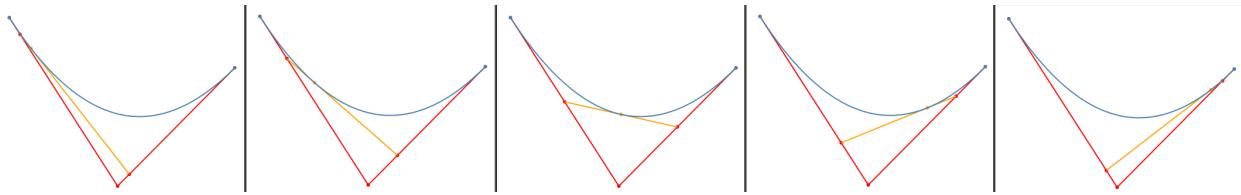
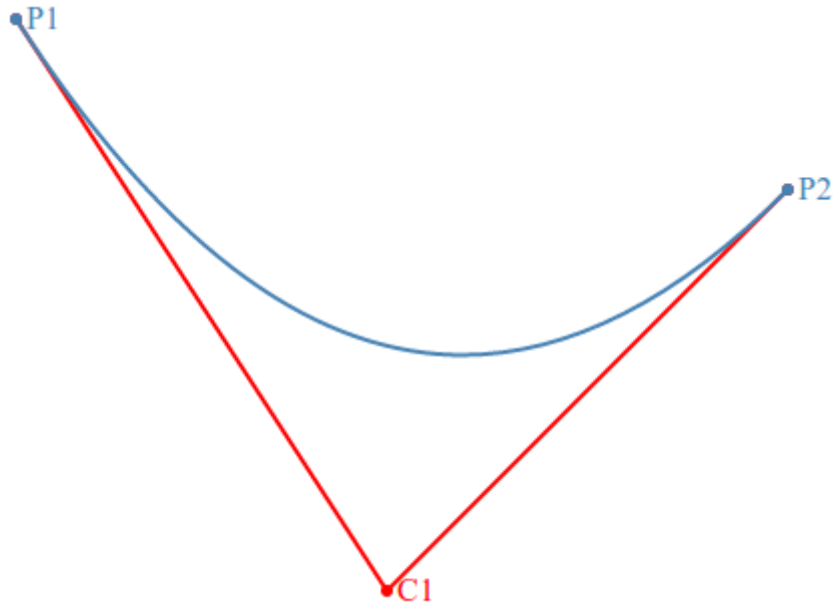
$$f(x) = a \cdot x^3 + b \cdot x^2 + c \cdot x + d$$

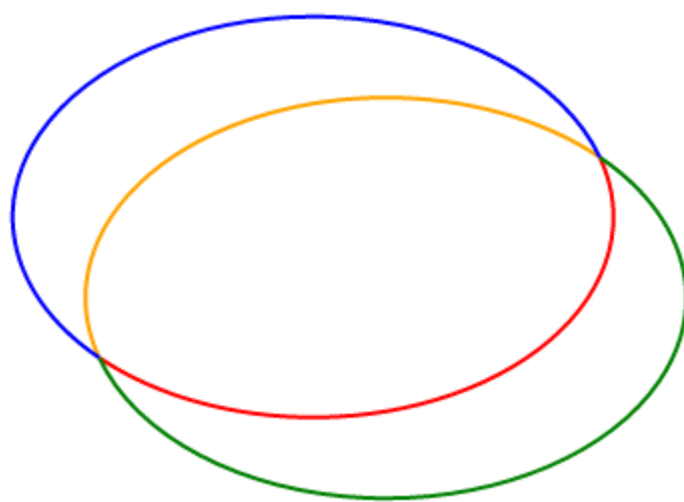
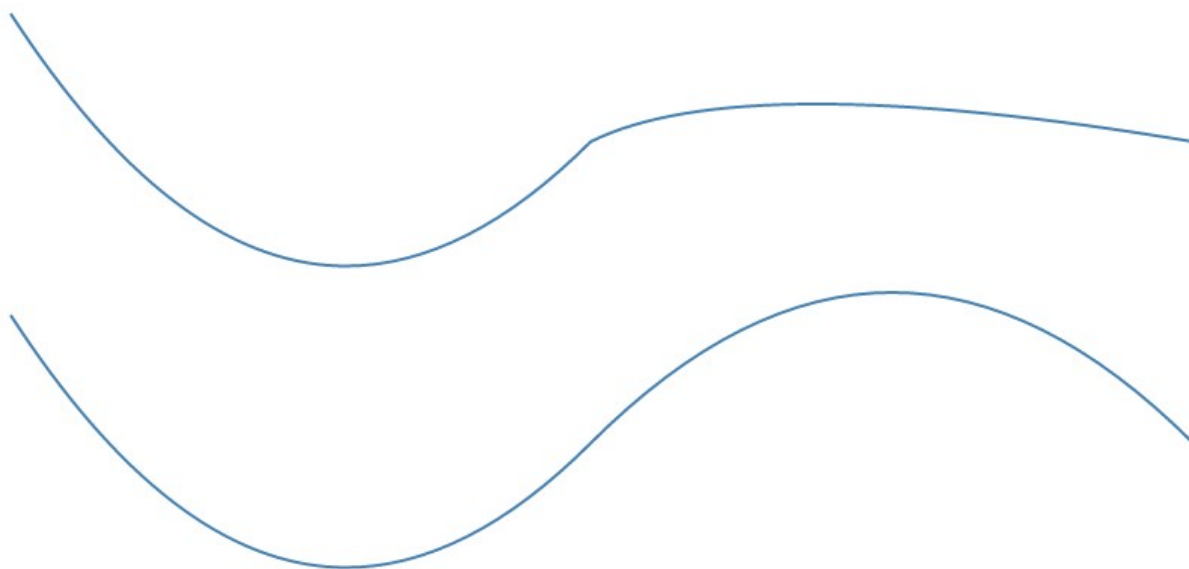
$$f(t) = \sum_{i=0}^n B_{i,n}(t) \cdot P_i$$

$$B_{i,n}(t) = \binom{n}{i} t^i (1-t)^{n-i}$$

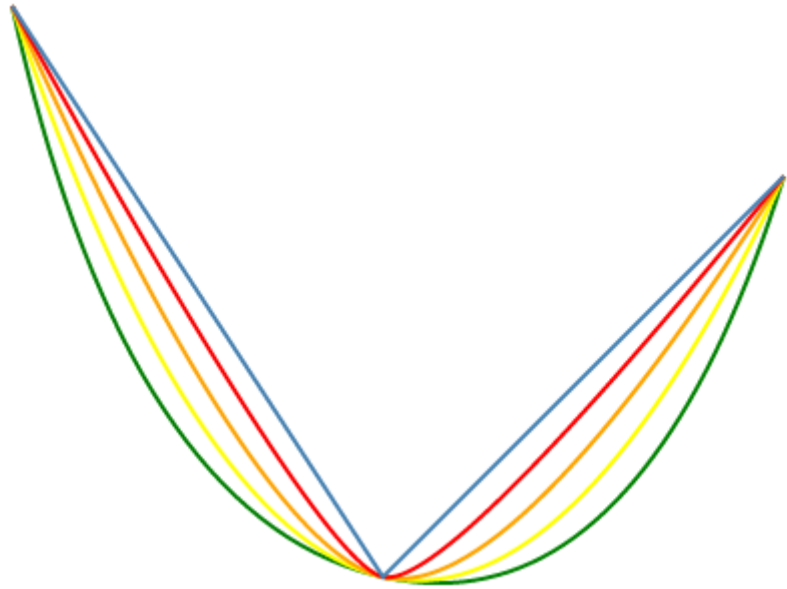
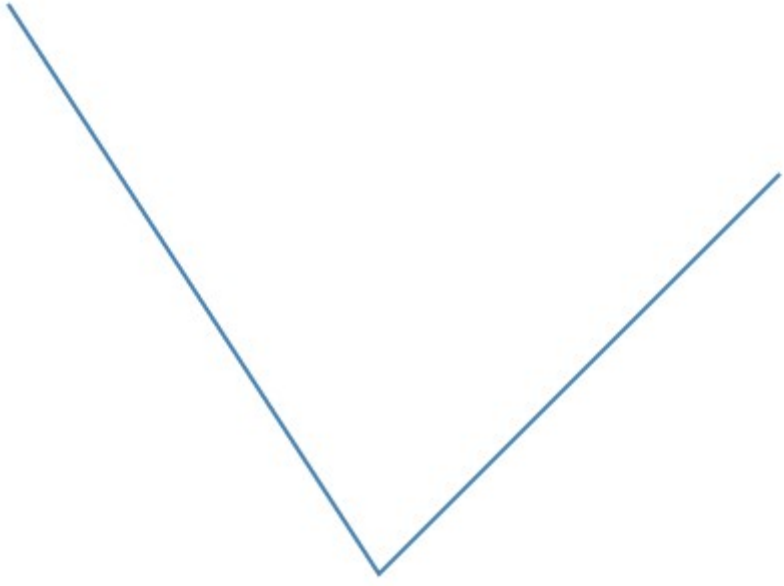
$$f(t) = (1-t)^3 \cdot P_0 + 3t(1-t)^2 \cdot P_1 + 3t^2(1-t) \cdot P_2 + t^3 \cdot P_3$$

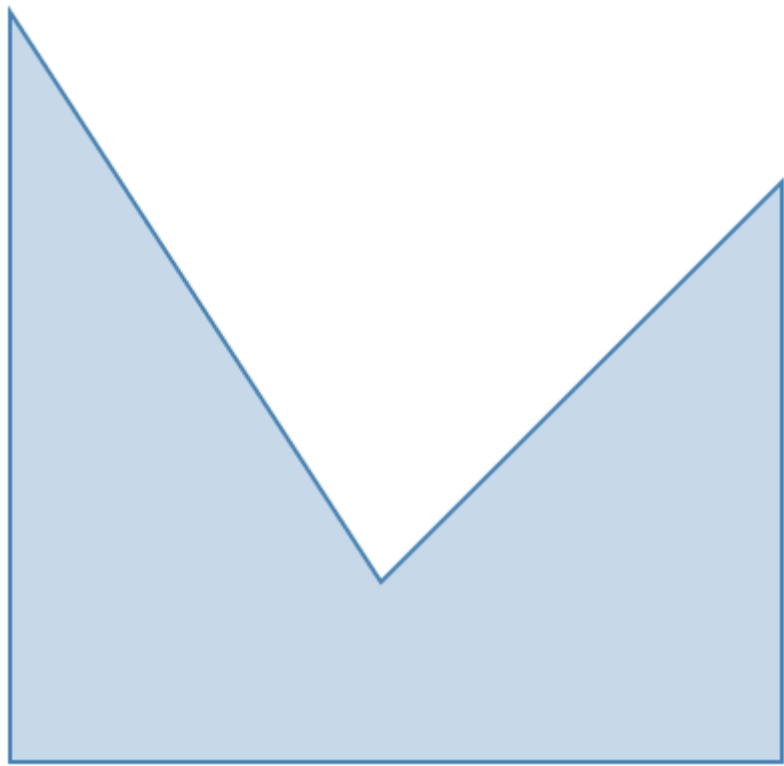


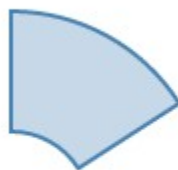
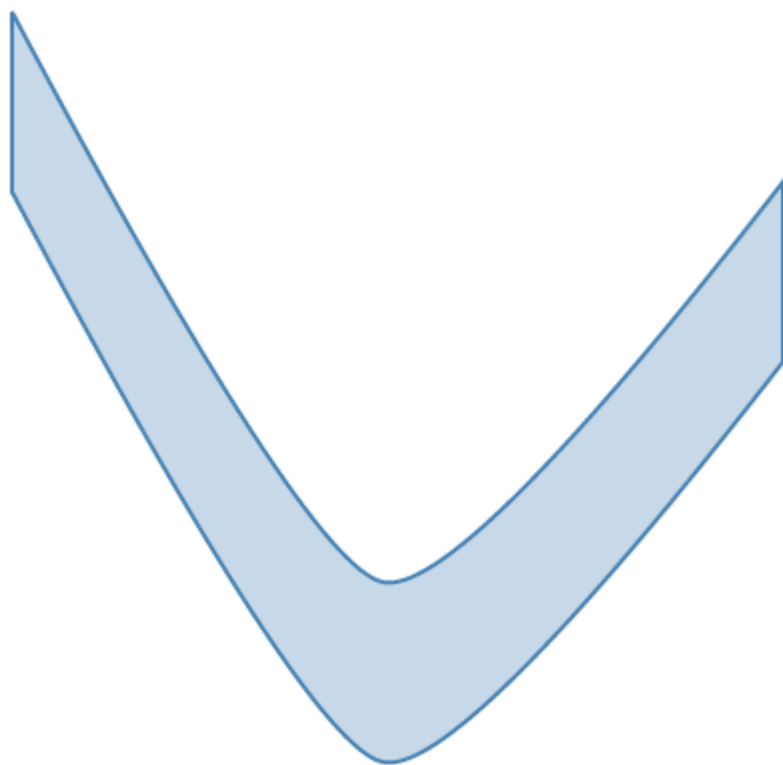


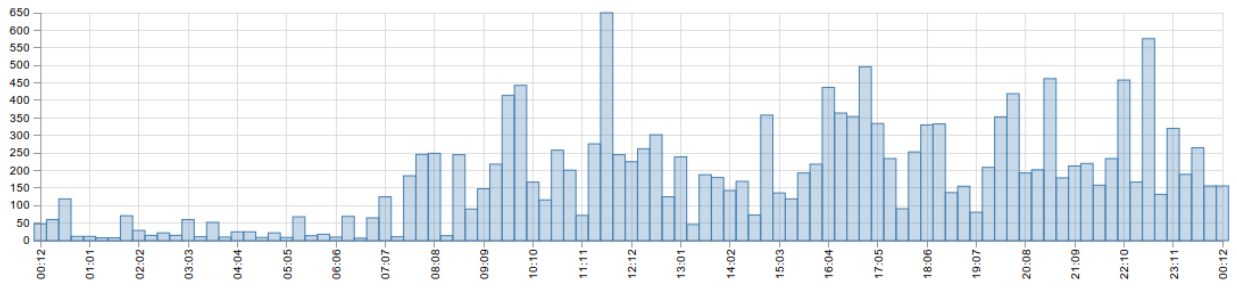
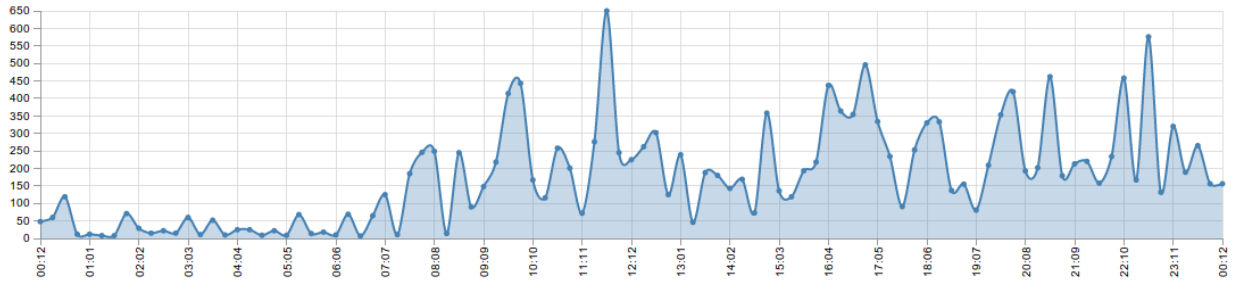




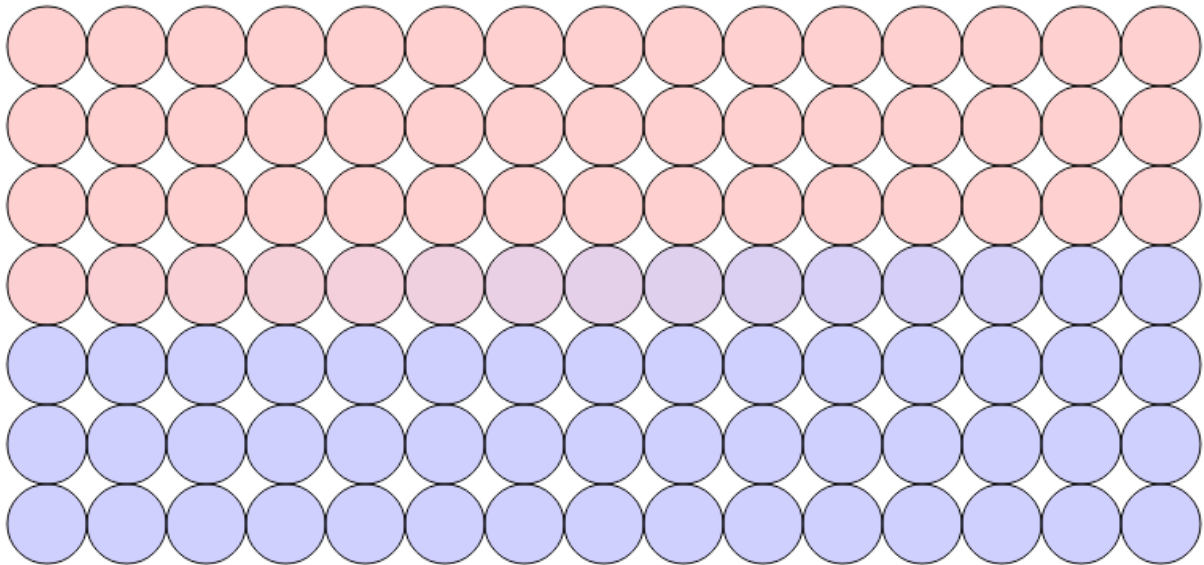
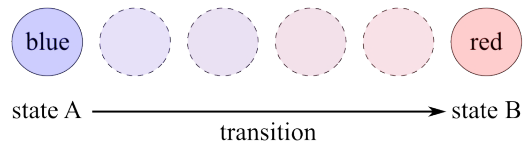
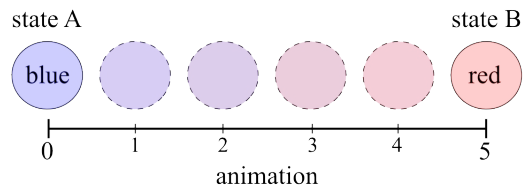


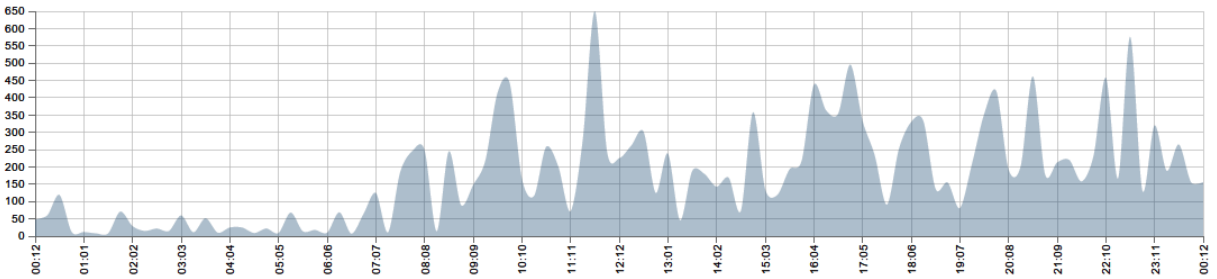
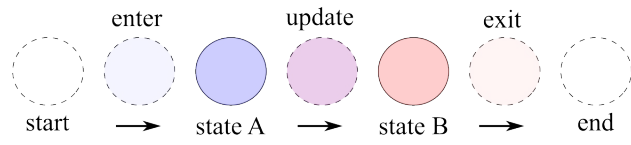
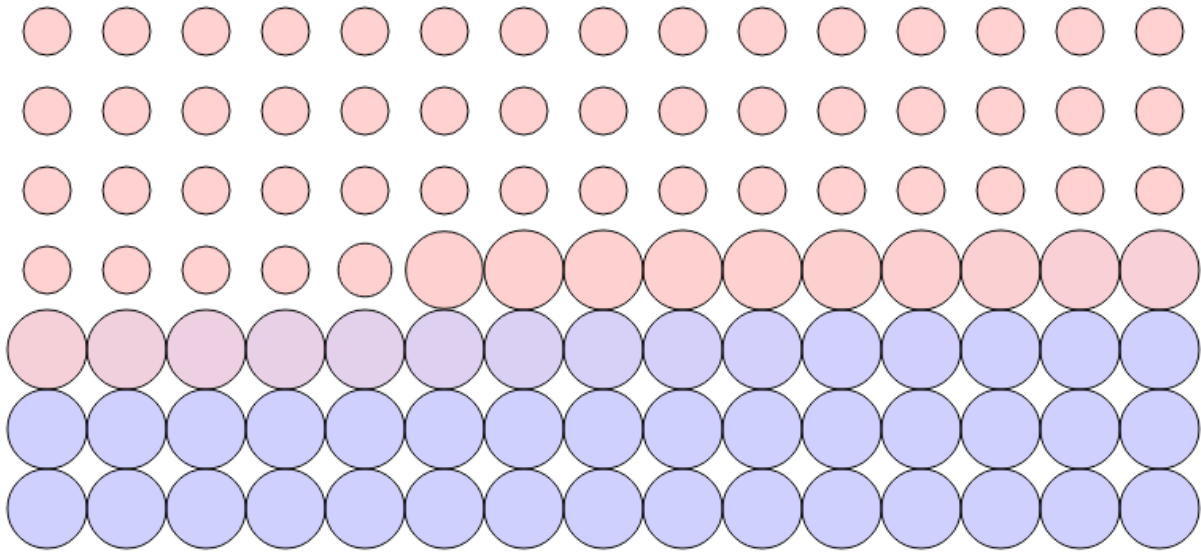


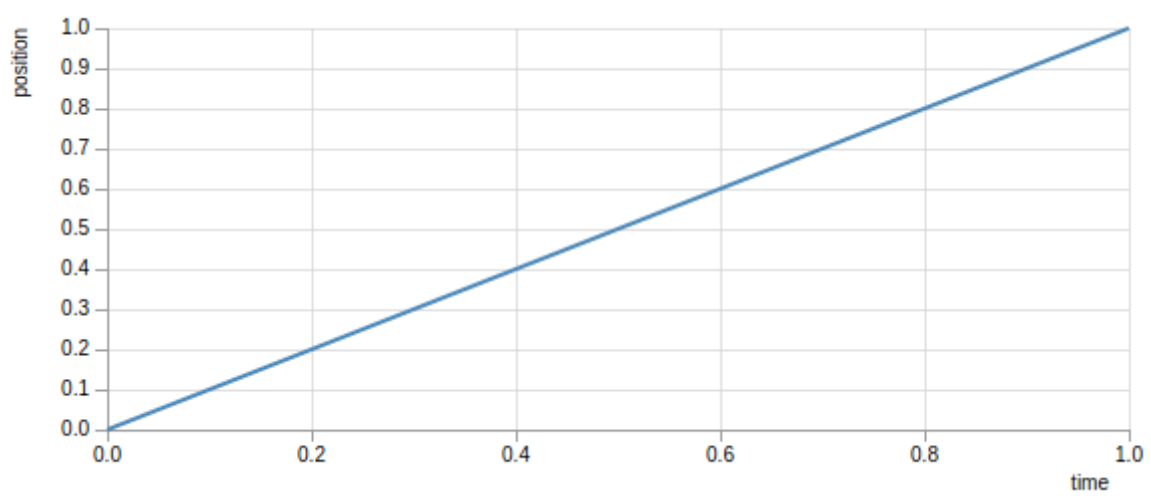
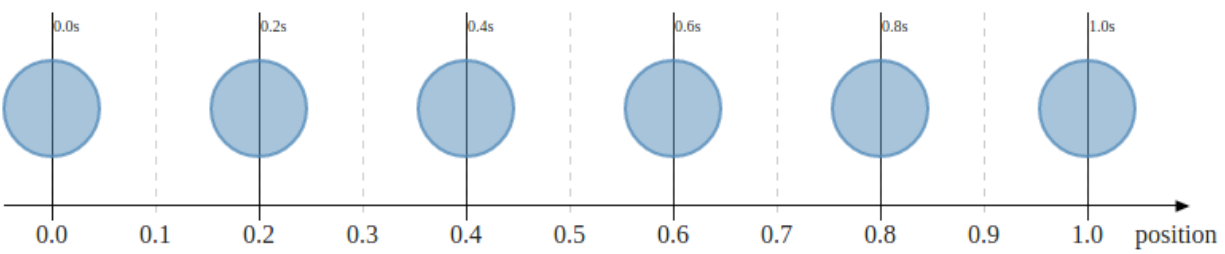
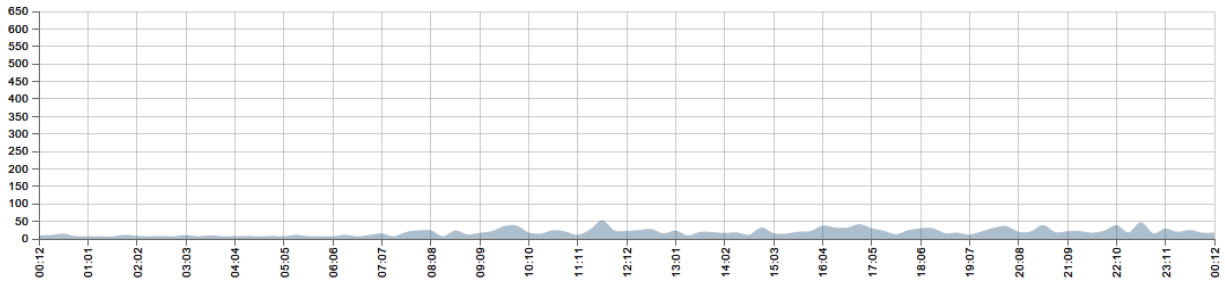


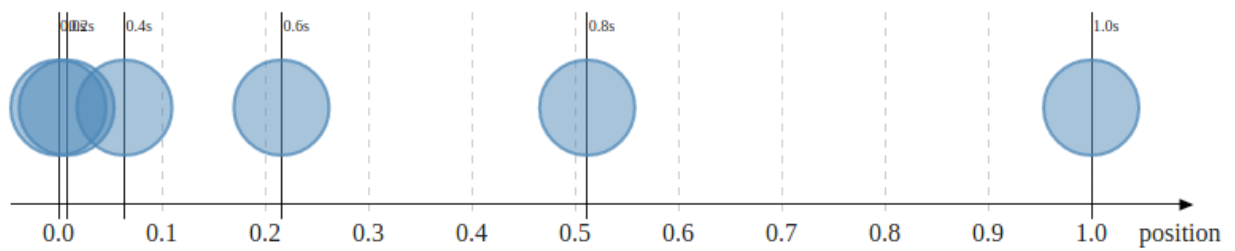
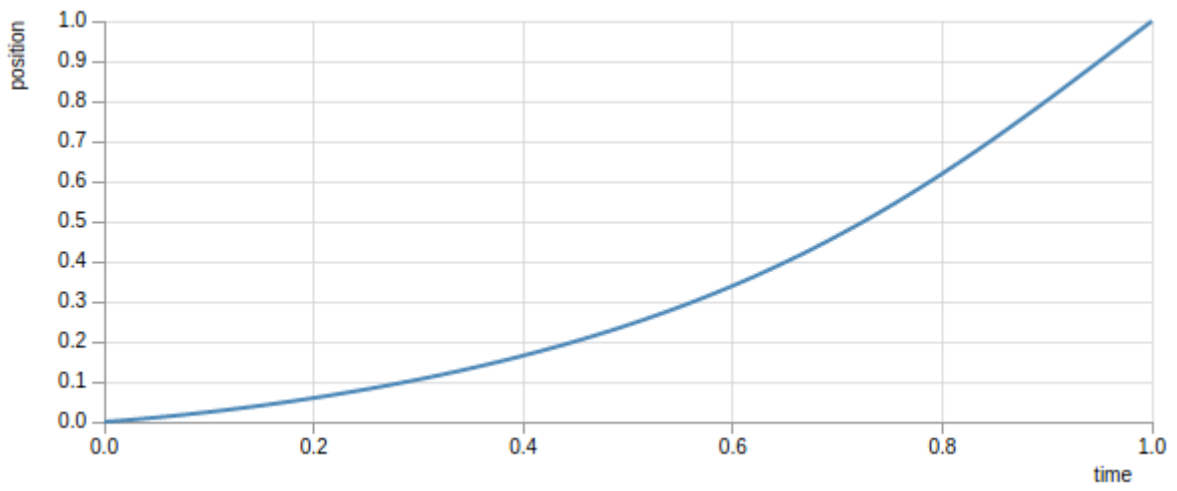
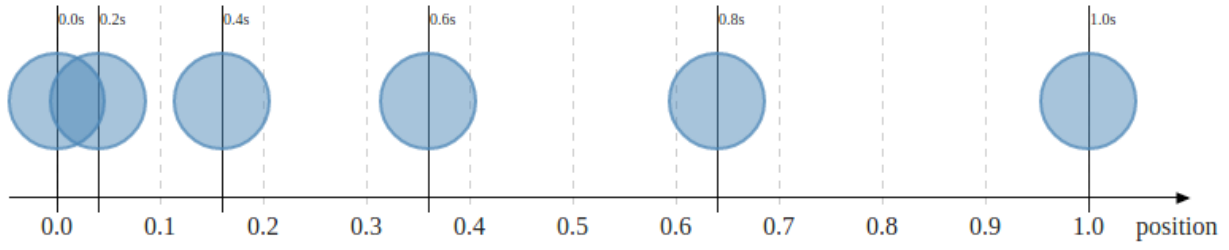


# Chapter 7: Controlling Transitions and Animations

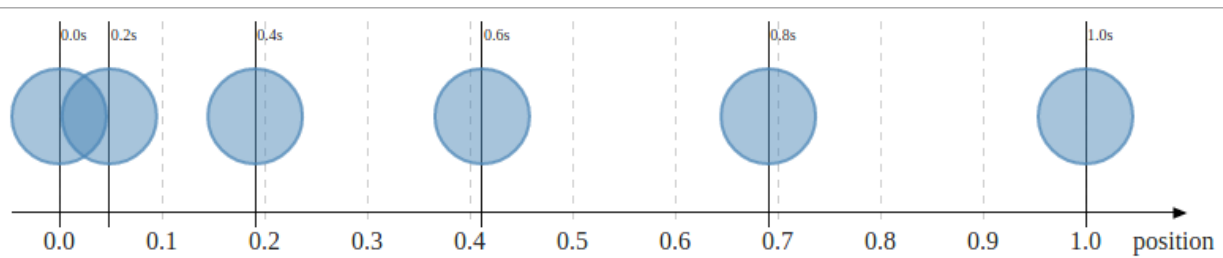
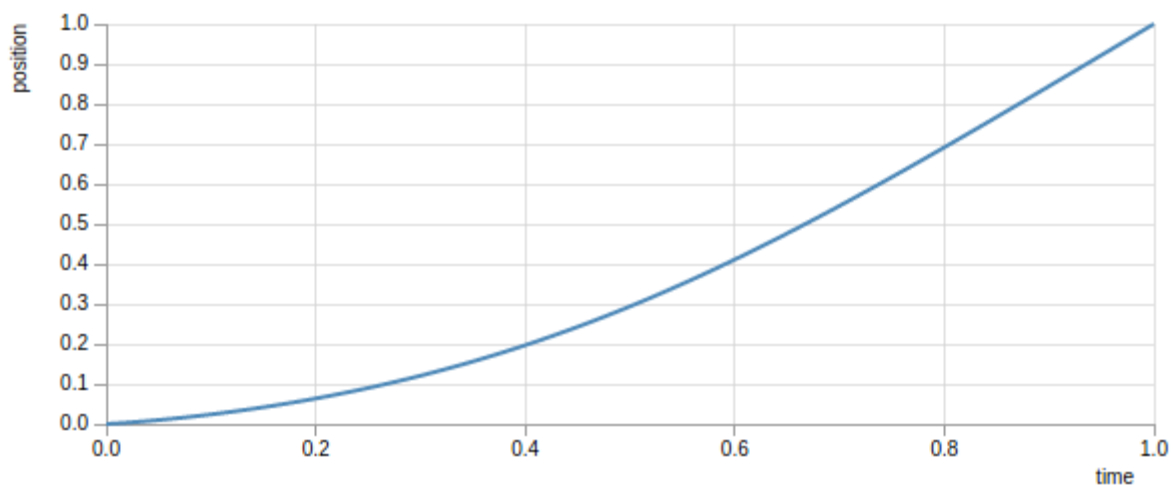
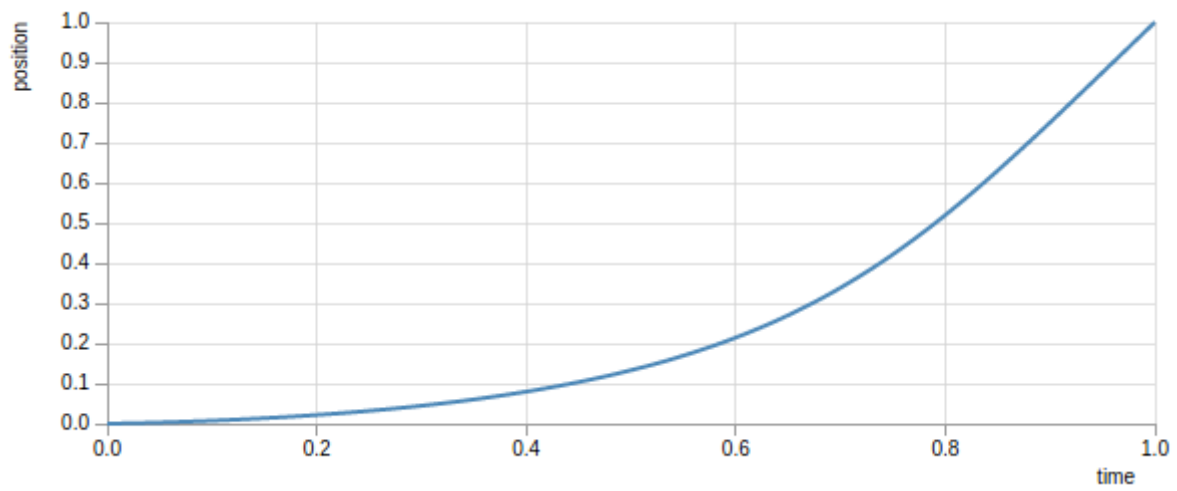


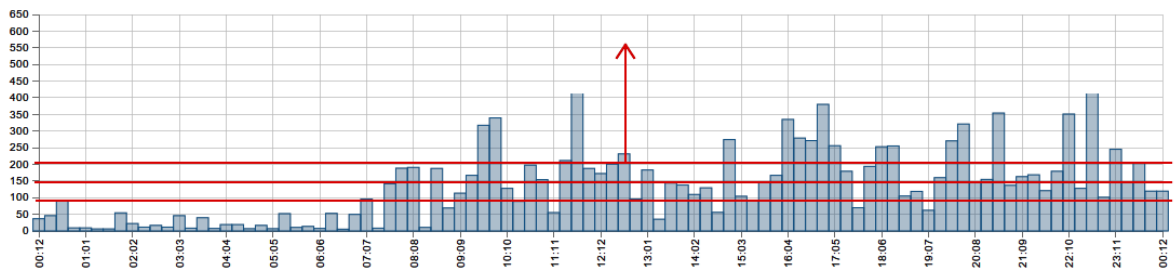
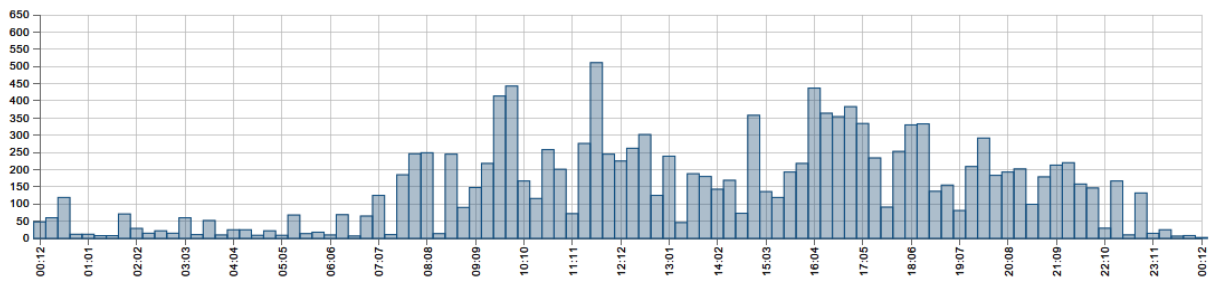
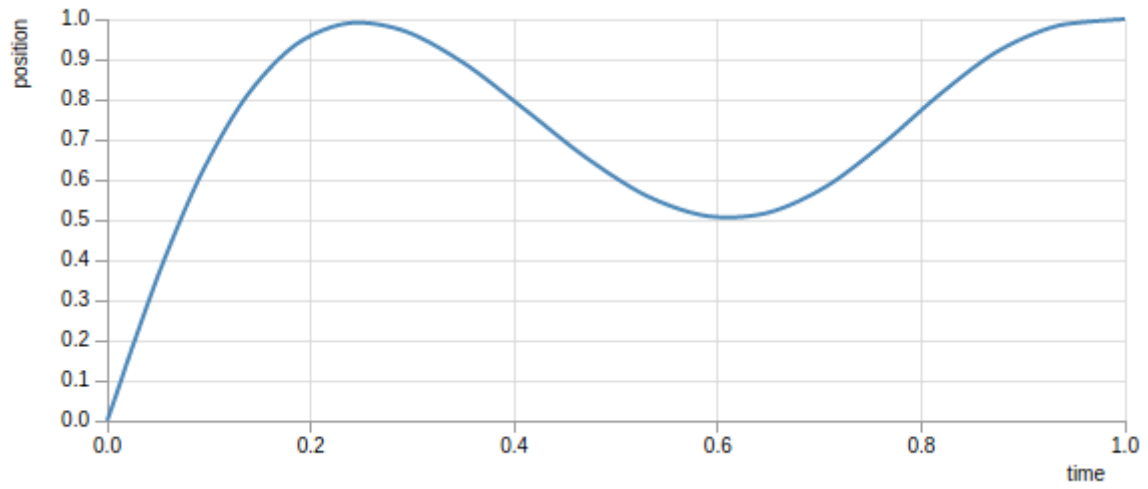


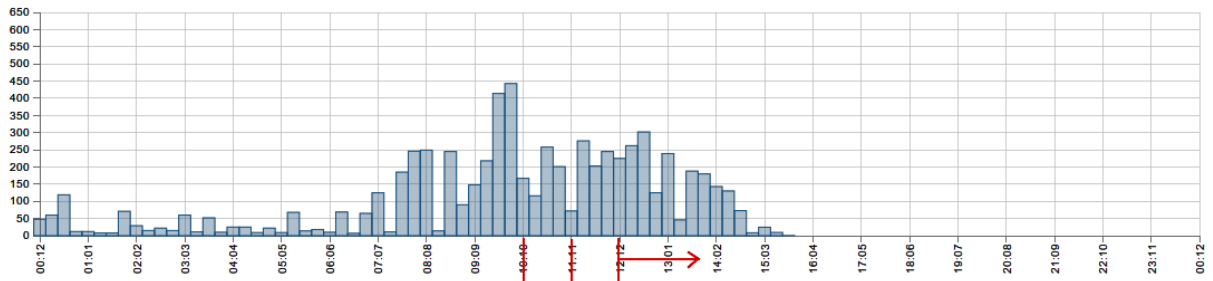
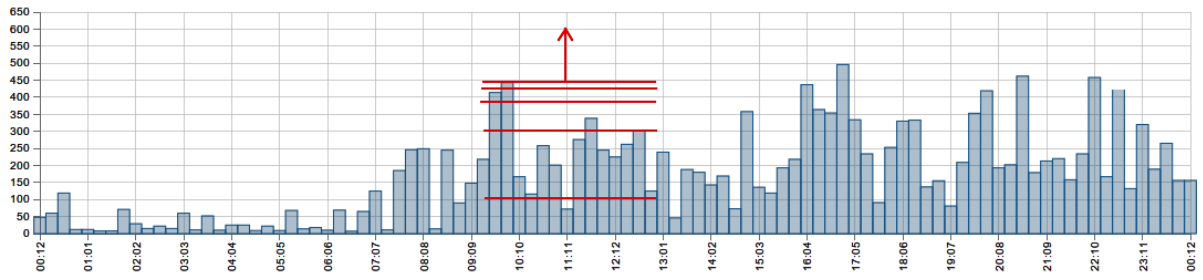
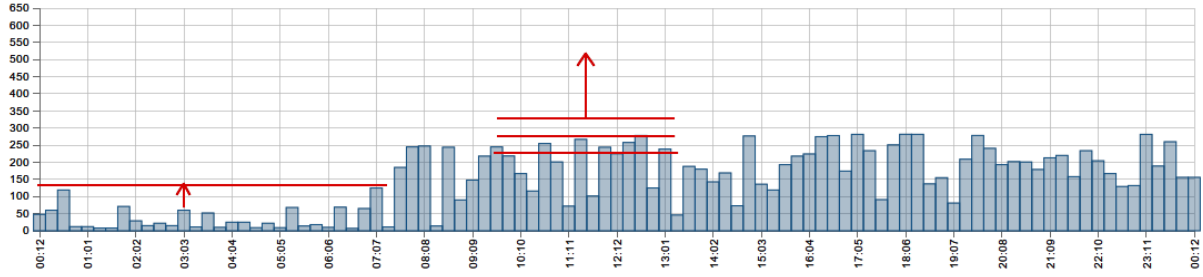


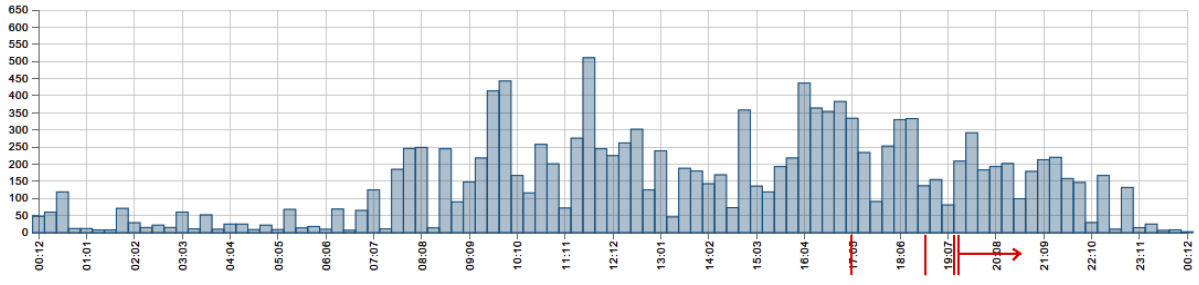




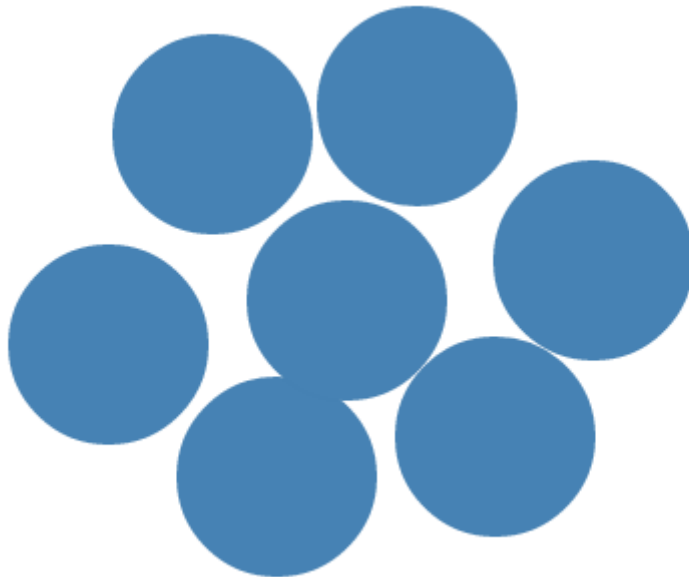


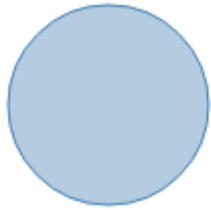






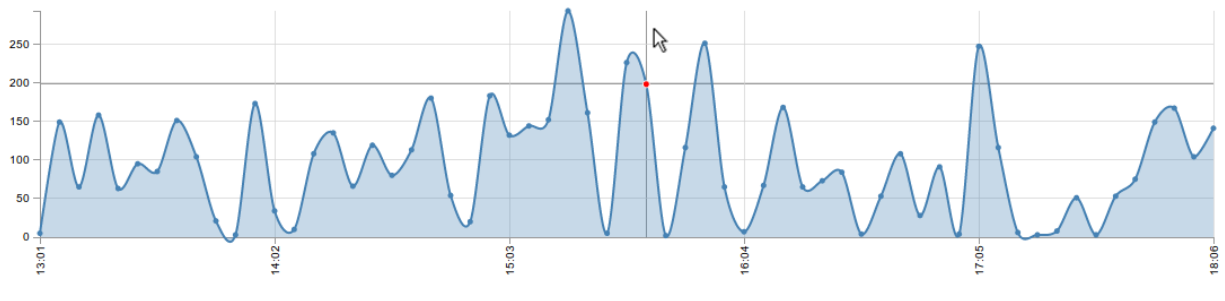
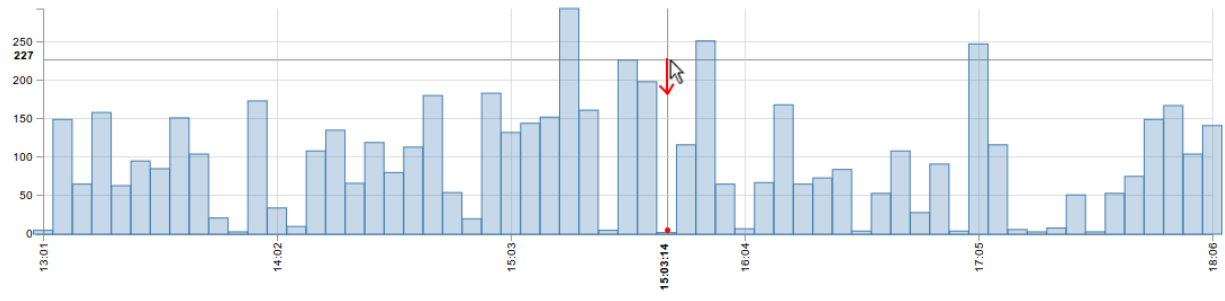
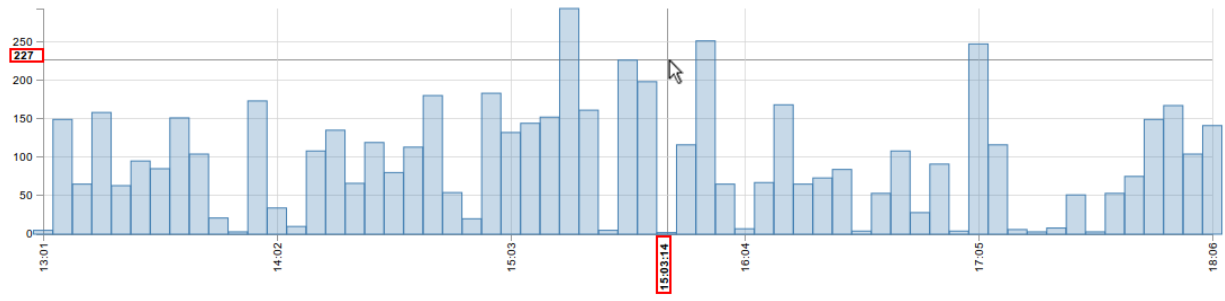
## Chapter 8: Bringing the Chart to Life with Interactions

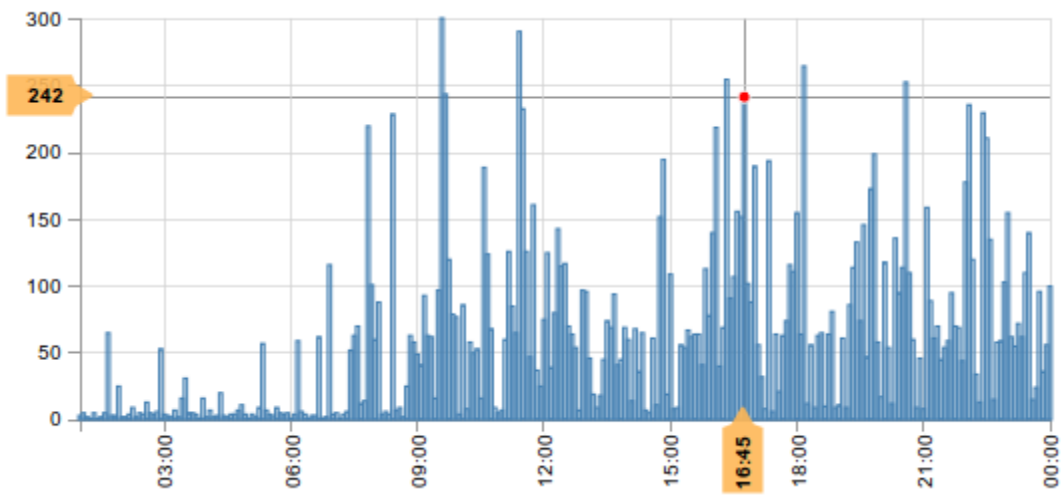




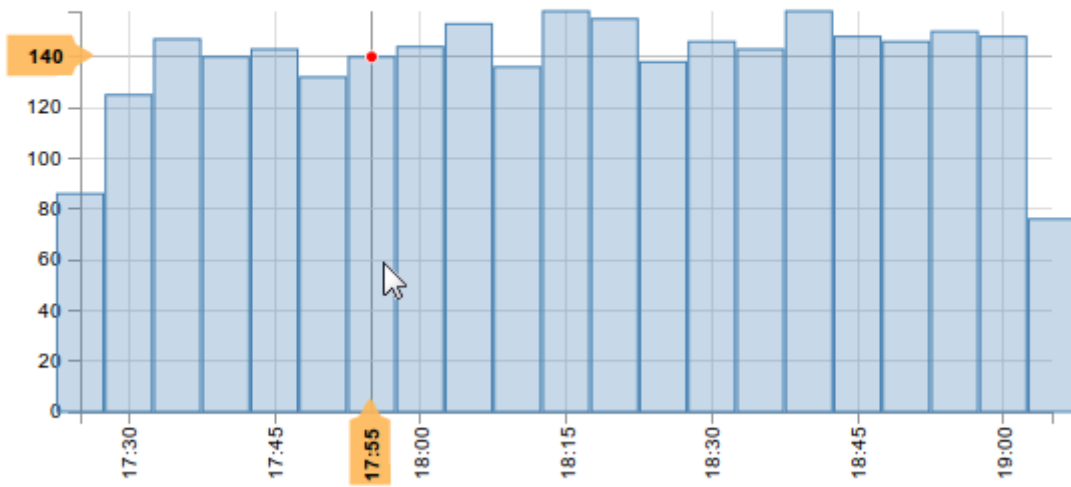
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	Triggered mouseover	<a href="#">01_event_listening.html:41</a>
14	Triggered mousemove	<a href="#">01_event_listening.html:41</a>
	Triggered mousedown	<a href="#">01_event_listening.html:41</a>
	Triggered mouseup	<a href="#">01_event_listening.html:41</a>
	Triggered click	<a href="#">01_event_listening.html:41</a>
	Triggered mousedown	<a href="#">01_event_listening.html:41</a>
	Triggered mouseup	<a href="#">01_event_listening.html:41</a>
	Triggered click	<a href="#">01_event_listening.html:41</a>
	Triggered dblclick	<a href="#">01_event_listening.html:41</a>
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	Triggered mouseleave	<a href="#">01_event_listening.html:41</a>

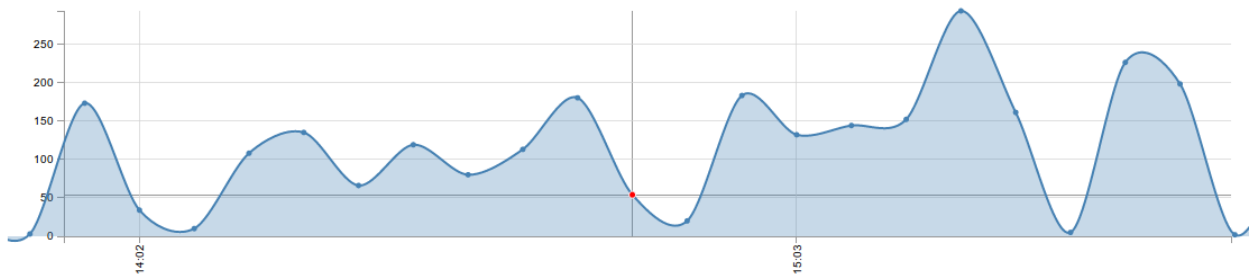
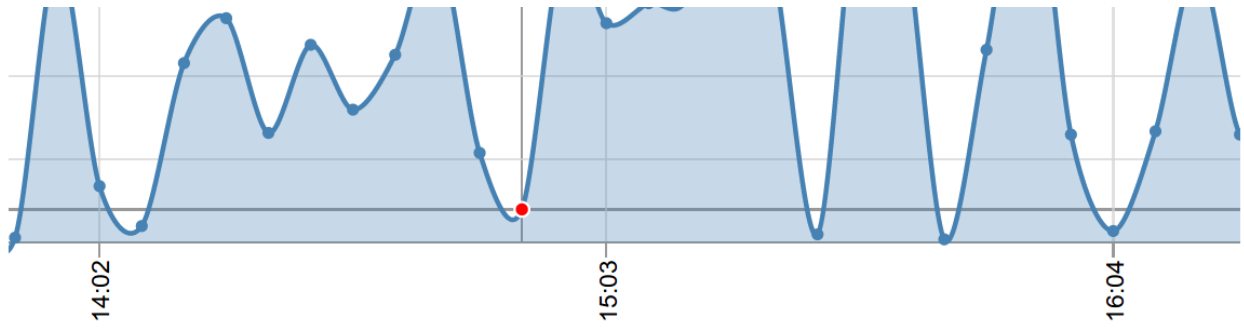
D3.js





Cursor: 29.11.2014 17:56, 58.46





Nov 2014						
Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

Dec 2014						
Su	Mo	Tu	We	Th	Fr	Sa
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

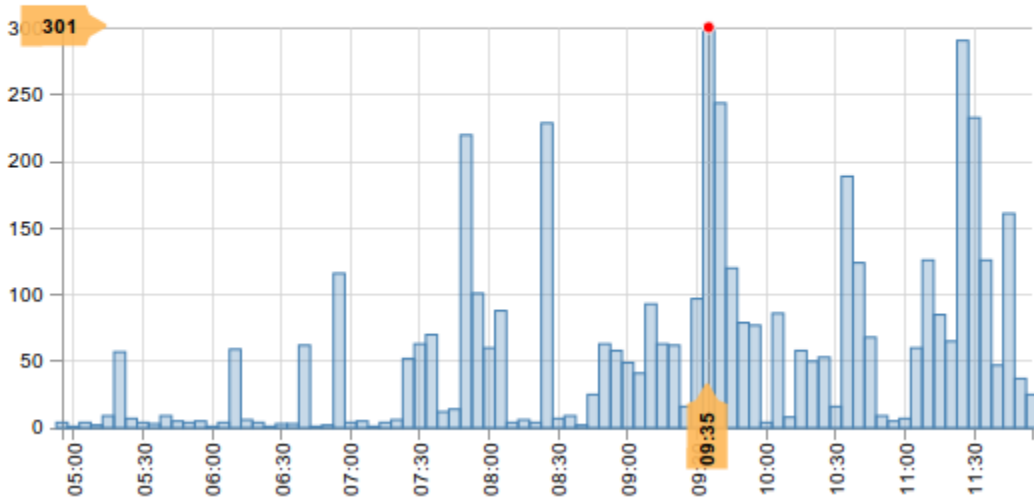
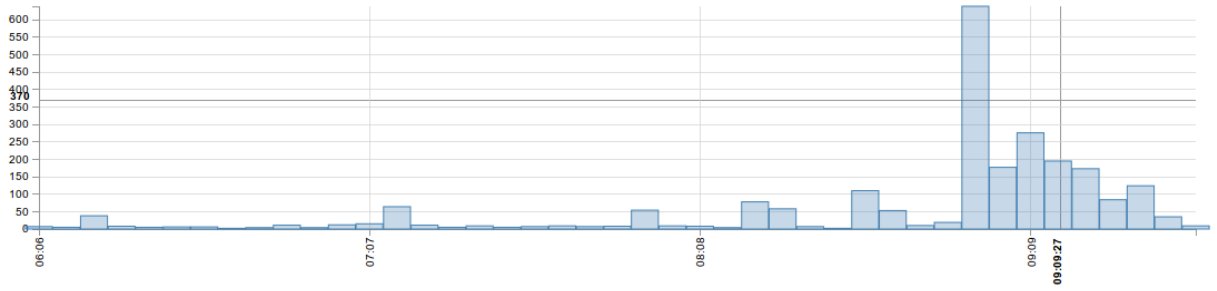
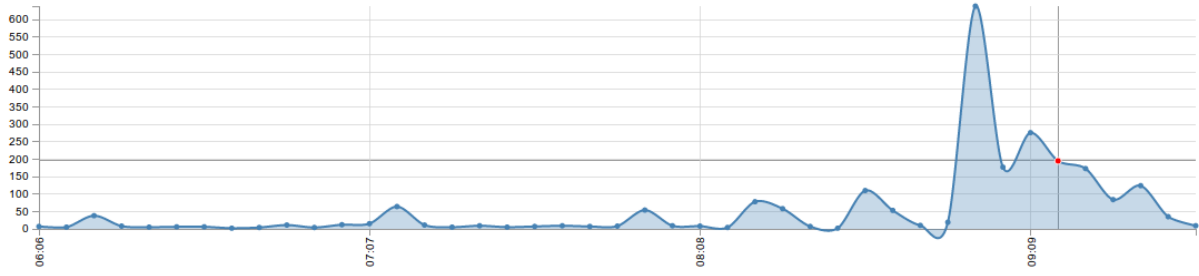


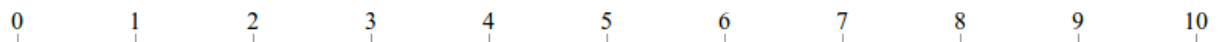
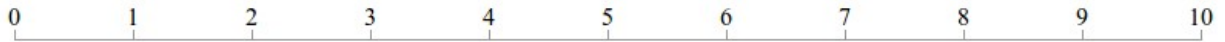
28.11.2014

06:00

- 28.11.2014

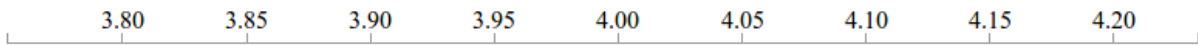
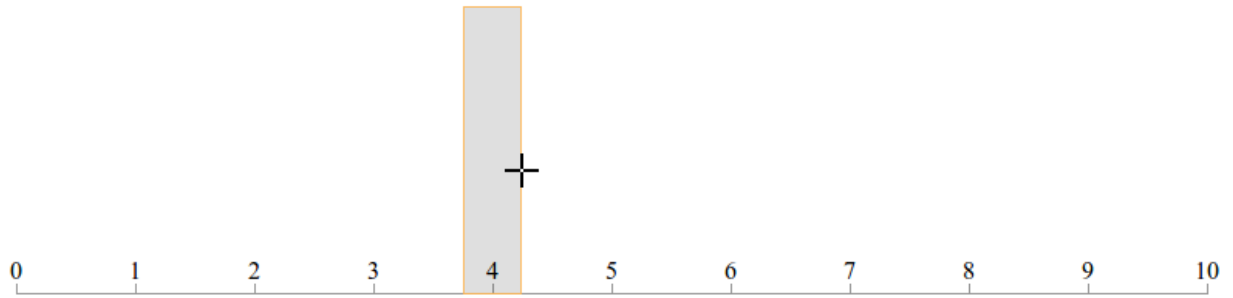
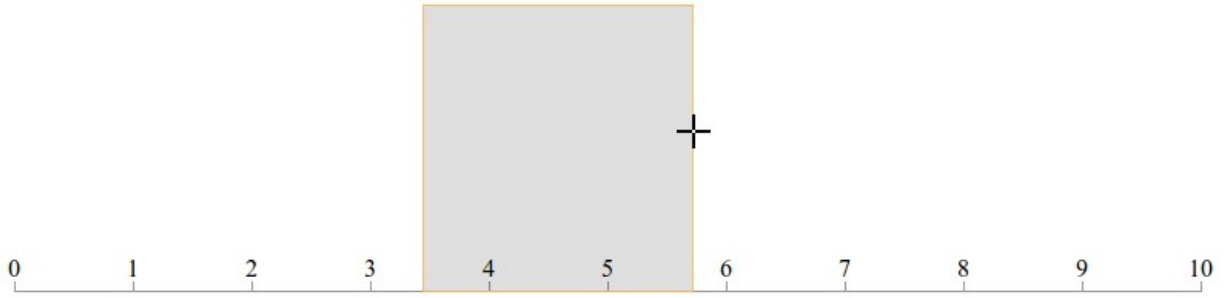
09:30

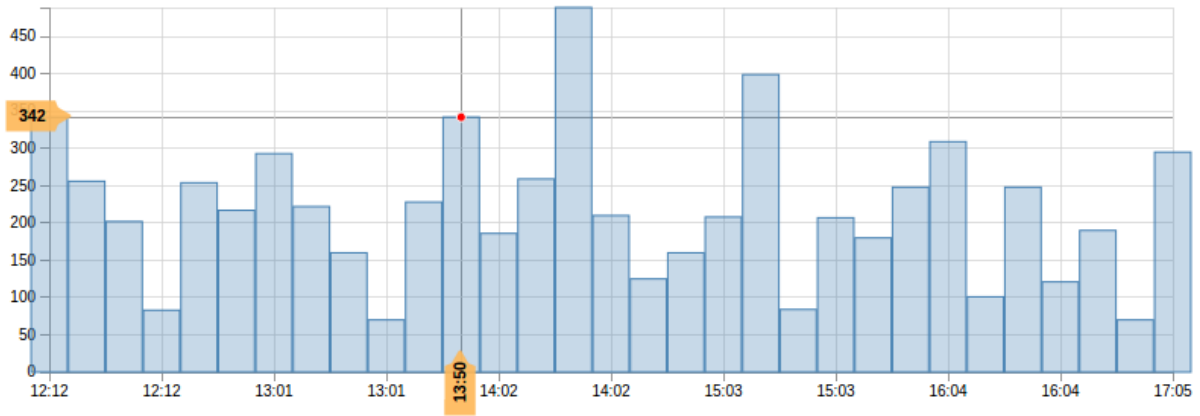




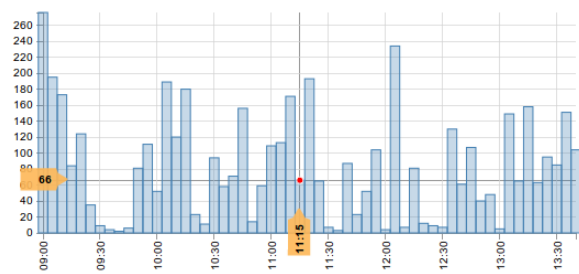
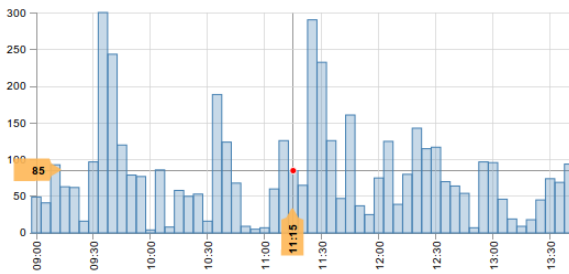
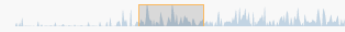
```
Q Elements Network Sources Timeline Profiles Resources Audits Console
▼ <html>
  ▶ <head>...</head>
  ▼ <body>
    ▶ <script type="text/javascript">...</script>
    ▼ <svg width="800" height="200">
      ▼ <g class="vis" transform="translate(15)">
        ▶ <g class="axis" transform="translate(0, 185)">...</g>
        ▼ <g class="brush" style="pointer-events: all; -webkit-tap-highlight-color: rgba(0, 0, 0, 0);">
          <rect class="background" x="0" width="770" y="0" height="185" style="visibility: hidden; cursor: crosshair;"></rect>
          <rect class="extent" x="0" width="0" y="0" height="185" style="cursor: move;"></rect>
          ▶ <g class="resize e" transform="translate(0,0)" style="cursor: ew-resize; display: none;">...</g>
          ▶ <g class="resize w" transform="translate(0,0)" style="cursor: ew-resize; display: none;">...</g>
        </g>
      </g>
    </svg>
  </body>
</html>
```

html body **svg**

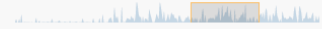




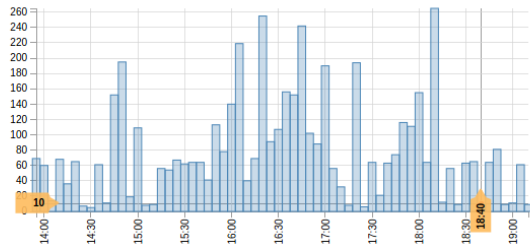
Date/Time Filter: 29.11.2014 09:00 - 29.11.2014 13:43



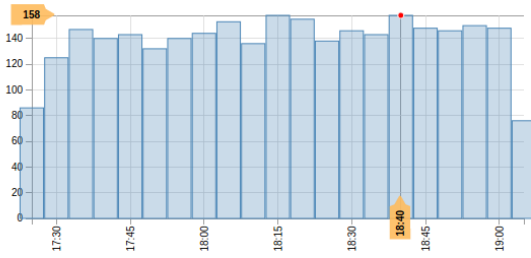
## Chapter 9: Building a Real-time Visualization to Monitor Server Logs



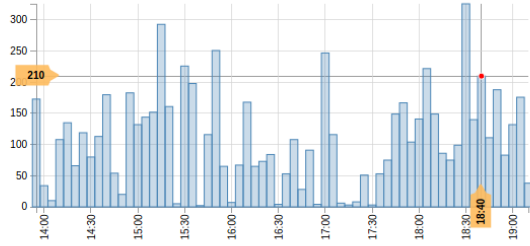
### apache.access



### mysql.slow-queries



### nginx.access



### nginx.error

