

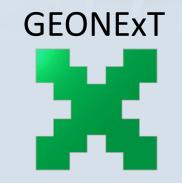
Geometrie-Labor

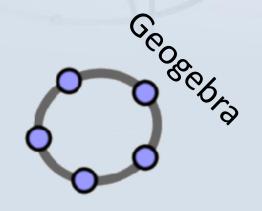
Dynamische Geometrie mit JSXGraph

```
Michael Gerhäuser, Bianca Valentin lement ('slider', [[1,3], [5])

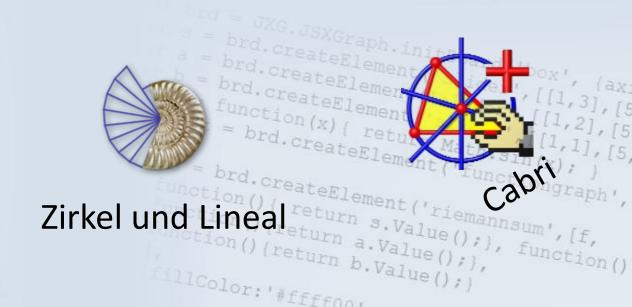
function(x) { return Math.sin(x); } brd.createElement ('functiongraph', sunction() { return s.Value(); }, function() { return b.Value(); }, function() { return b.Value(); }
```









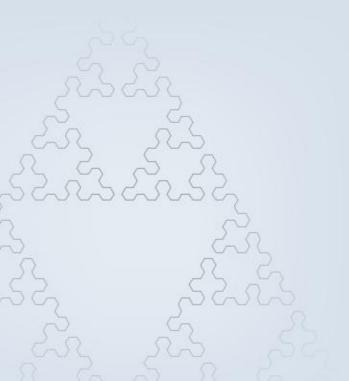


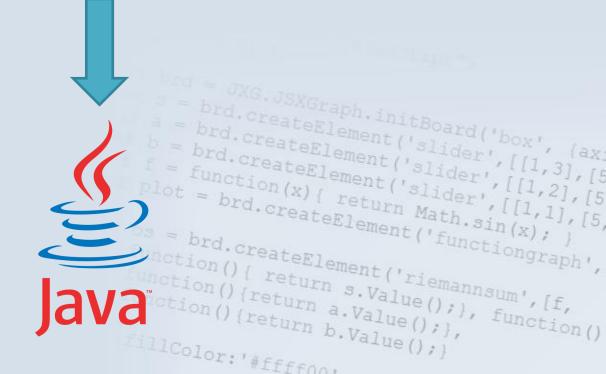


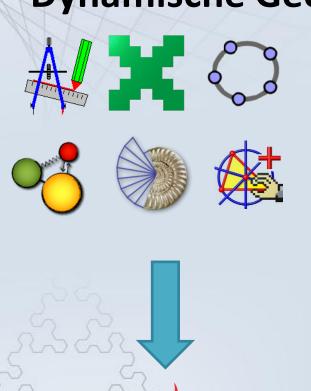










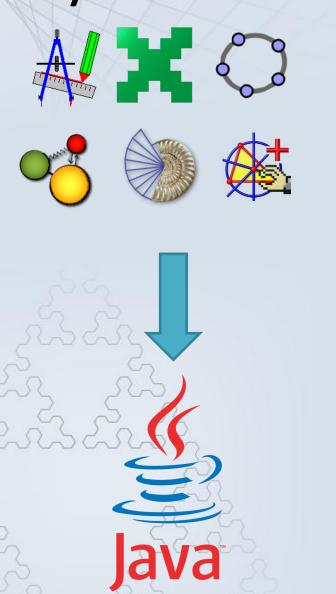






ction() [return s. Value(); }, function() nction() {return a. Value();}, anotion()(return b.Value();)

FillColor: '#fffffoo.





illColor: '#fffffoo.

JSXGraph

- entwickelt an der Universität Bayreuth
- komplett in JavaScript implementiert
- kein Plugin nötig
- unterstützt alle gängigen Browser und das reateElement('slider',[[1 function(x) { return Math.sin(x) plot = brd.createElement('functiongraph',

ps = brd.createElement('riemannsum',[f,

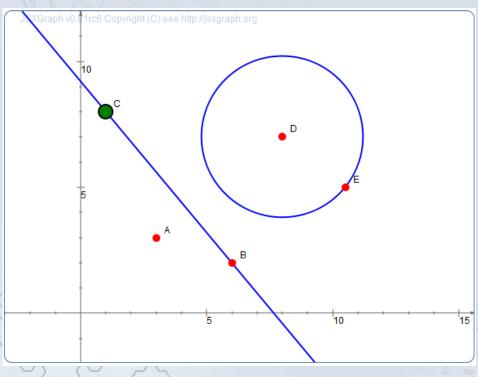
unction() {return a. Value();}, notion() (return b. Value();)

llColor: '#ffffoo!

unction() { return s. Value();}, function()

iPhone bzw. iPad

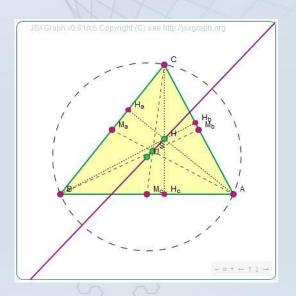
Erstes Beispiel

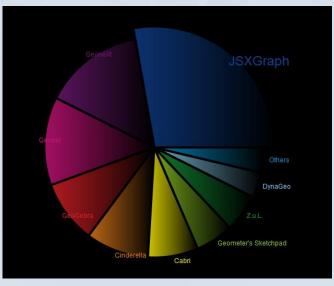


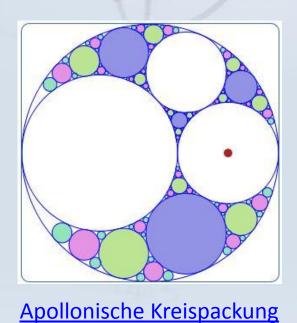
Live Version

```
var a = brd.create('point', [3,3],
      {name: 'A'});
      var b = brd.create('point', [6,2],
      {name: 'B'});
      var c = brd.create('point', [1,8],
          {name: 'C', strokeColor: 'black',
          fillColor:'green',size:8});
      var l = brd.create('line',[b, c]);
      var d = brd.create('point', [8,7],
      {name: 'D'});
      var e = brd.create('point',
      [10.5,5], {name: 'E'});
      var cr = brd.create('circle',
      [d, e], {name: 'k 1'});
      var i1 =
      brd.create('intersection',
      [cr, 1, 0], {face:'square'});
      var i2 =
      brd.create('intersection',
      brd.create( incel:
[cr, 1, 1], {face:'[]', size:7})
                   Element ('functiongraph',
ps = brd.createElement('riemannsum',[f,
function() { return s.Value();}, function()
unction() {return a. Value();},
unction() (return b. Value();)
FillColor: '#ffffoo!
```

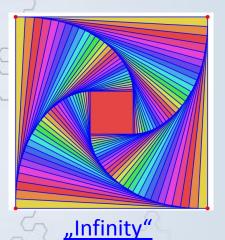
Weitere Beispiele



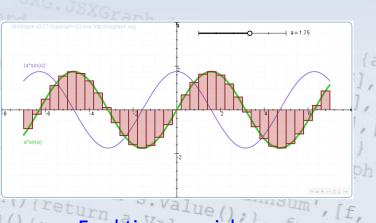




Geometrie: Eulergerade



Diagramme



<u>Funktionen zeichnen</u>

Konstruieren mit JessieScript

P(1,1) 1/2(A,B)

<(A,B,C)

Y[A,B,C,D]

Konstruieren mit JessieScript

Q(g,3,2)

S = brd.createElement('box', (ax: brd.createElement('slider', [[1,3], [5])))

f:x^2+2*x+5

X=g&k1

plot = brd.createElement('functiongraph',

k(A,[PQ])ateElement('riemannsum',[f,
return s.Value();), function()

motion() (return a.Value();),

illColor.

Ausprobieren!



plot = brd.createElement('functiongraph',

http://jsxgraph.uni-bayreuth.de/jessie

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http://jsxgraph.uni-bayreuth.de/jessie

http://jsxgraph.uni-bayreuth.de/jessie unction() (return b. Value();)