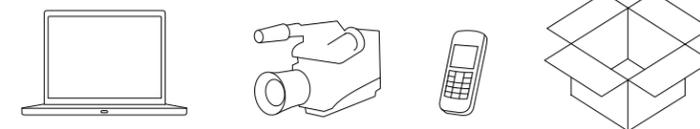


Was ist Processing?

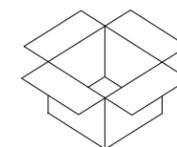
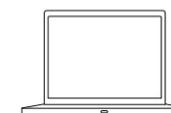


<http://processing.org>

->Downloads

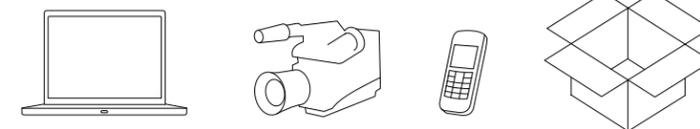
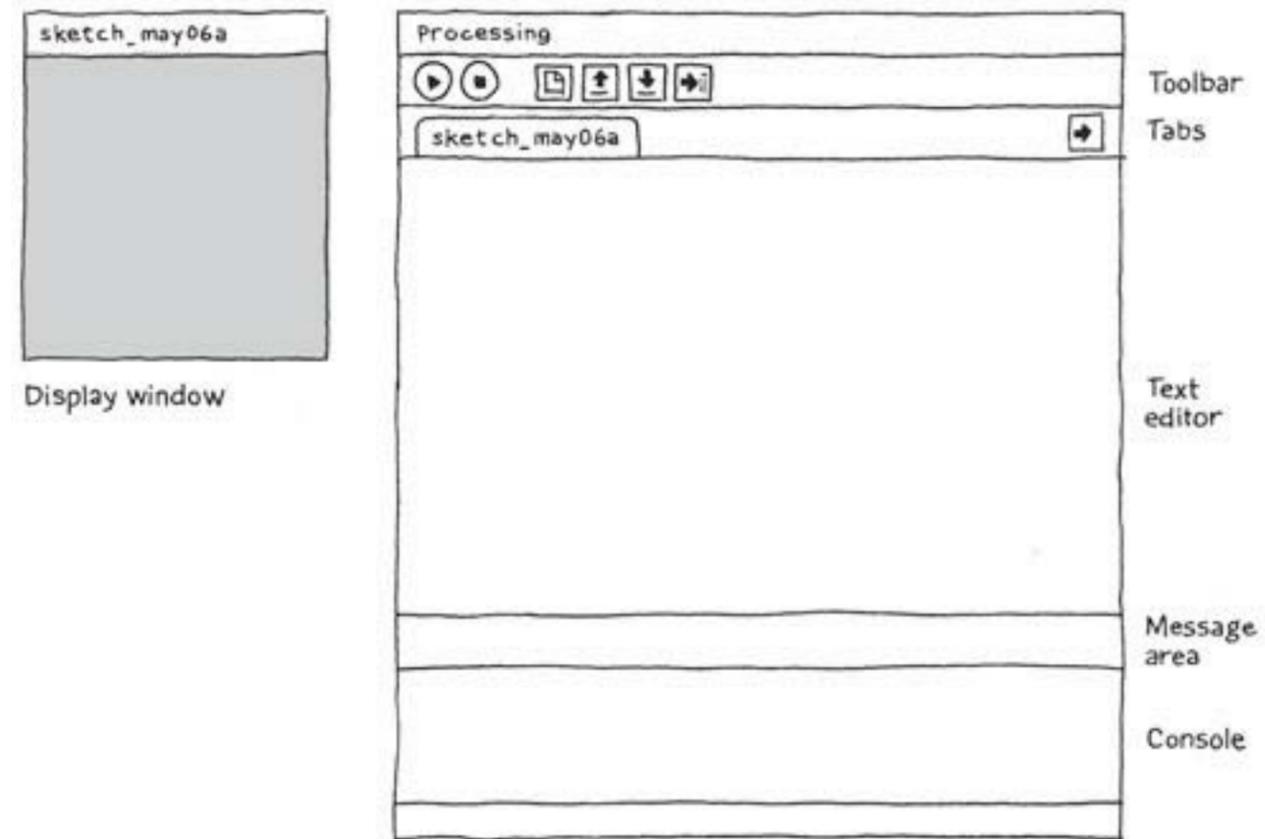
->Stable Releases

->1.5.1



Prozedurale Mediengestaltung

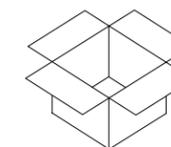
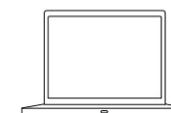
Einführung Processing



Prozedurale Mediengestaltung

Einführung Processing

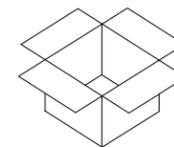
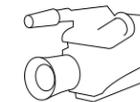
```
line (0, 0, 50, 80) ;
```



Prozedurale Mediengestaltung

Einführung Processing

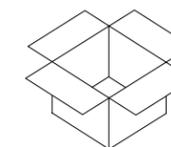
```
size(400,400);  
line(0,0,width*0.5,height*0.8);
```



Prozedurale Mediengestaltung

Einführung Processing

```
size(400,400);  
background(128,50,0);  
stroke(0);  
line(0,50,width,50);  
stroke(255);  
line(0,100,width,100);
```



Prozedurale Mediengestaltung

Einführung Processing



Language [API]. The Processing Language has been designed to facilitate the creation of sophisticated visual and conceptual structures.

Structure

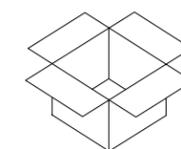
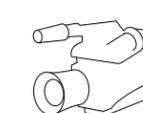
- [.\(dot\)](#)
- [super](#)
- [setup\(\)](#)
- [class](#)
- [exit\(\)](#)
- [void](#)
- [size\(\)](#)
- [try](#)
- [import](#)
- [/* */ \(multiline comment\)](#)
- [false](#)
- [noLoop\(\)](#)
- [this](#)
- [true](#)
- [new](#)
- [// \(comment\)](#)
- [_\(comma\)](#)
- [delay\(\)](#)
- [pushStyle\(\)](#)
- [{ } \(curly braces\)](#)
- [catch](#)
- [/** */ \(doc comment\)](#)
- [draw\(\)](#)
- [loop\(\)](#)
- [implements](#)
- [redraw\(\)](#)
- [static](#)
- [;\(semicolon\)](#)
- [final](#)
- [\[\] \(array access\)](#)
- [extends](#)
- [private](#)

Shape

- [PShape](#)
- 2D Primitives*
 - [triangle\(\)](#)
 - [line\(\)](#)
 - [arc\(\)](#)
 - [point\(\)](#)
 - [quad\(\)](#)
 - [ellipse\(\)](#)
 - [rect\(\)](#)
- Curves*
 - [bezierTangent\(\)](#)
 - [bezierDetail\(\)](#)
 - [curveTightness\(\)](#)
 - [bezierPoint\(\)](#)
 - [curveDetail\(\)](#)
 - [curvePoint\(\)](#)
 - [curveTangent\(\)](#)
 - [curve\(\)](#)
 - [bezier\(\)](#)
- 3D Primitives*
 - [box\(\)](#)
 - [sphere\(\)](#)
 - [sphereDetail\(\)](#)
- Attributes*
 - [strokeWeight\(\)](#)
 - [smooth\(\)](#)
 - [strokeJoin\(\)](#)

Color

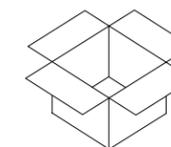
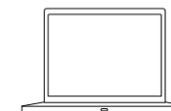
- Setting*
 - [background\(\)](#)
 - [colorMode\(\)](#)
 - [stroke\(\)](#)
 - [noFill\(\)](#)
 - [noStroke\(\)](#)
 - [fill\(\)](#)
- Creating & Reading*
 - [blendColor\(\)](#)
 - [red\(\)](#)
 - [brightness\(\)](#)
 - [blue\(\)](#)
 - [saturation\(\)](#)
 - [lerpColor\(\)](#)
 - [green\(\)](#)
 - [hue\(\)](#)
 - [alpha\(\)](#)
 - [color\(\)](#)
- Image*
 - [PImage](#)
 - [createImage\(\)](#)
- Loading & Displaying*
 - [requestImage\(\)](#)
 - [loadImage\(\)](#)
 - [image\(\)](#)
 - [noTint\(\)](#)



Prozedurale Mediengestaltung

Einführung Processing

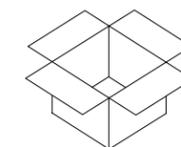
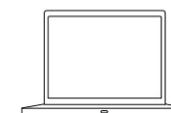
```
void setup() {  
  //wird einmal ausgeführt  
}  
void draw() {  
  //wird jeden frame ausgeführt  
}
```



Prozedurale Mediengestaltung

Einführung Processing

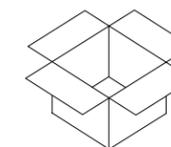
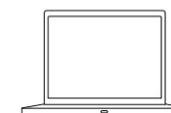
```
void setup() {  
  size(400, 400);  
  stroke(255);  
  background(192, 64, 0);  
}  
  
void draw() {  
  line(width/2,height/2, mouseX, mouseY);  
}
```



Prozedurale Mediengestaltung

Einführung Processing

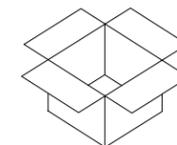
```
void setup() {  
  size(400, 400);  
  stroke(255);  
}  
  
void draw() {  
  background(192, 64, 0);  
  line(width/2,height/2, mouseX, mouseY);  
}
```



Prozedurale Mediengestaltung

Einführung Processing

```
void setup() {  
  size(400, 400);  
  stroke(255);  
  background(192, 64, 0);  
}  
void draw() {  
  line(width/2, height/2, mouseX, mouseY);  
}  
  
void mousePressed() {  
  background(192, 64, 0);  
}
```



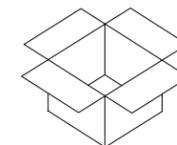
Prozedurale Mediengestaltung

Einführung Processing

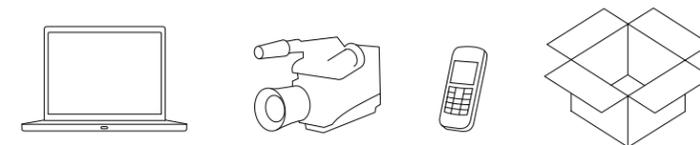
```
int startX = 130;
int startY = 50;

void setup() {
  size(400, 400);
  stroke(255);
  background(192, 64, 0);
}
void draw() {
  line(startX, startY, mouseX, mouseY);
}

void mousePressed() {
  background(192, 64, 0);
}
```



File
->Export Application

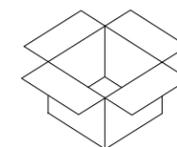
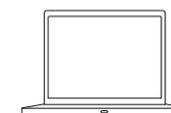


Buch:

Generative Gestaltung - Hartmut Bohnacker,
Benedikt Groß, Julia Laub, Claudius Lazzeroni

<http://www.creativeapplications.net>

<http://www.kinecthacks.net/>



Processing-Tutorials (1)

Arbeiten Sie folgende Tutorials auf jeden Fall durch:

- ▣ **Overview**
- ▣ **Coordinate Systems & Shape**
- ▣ **2D-Transformations**

Das Tutorial **P3D ist auch zentral, wir schauen uns Teile davon im Kurs an**

Schauen Sie sich einige Examples an ([File – Examples...](#))

Processing-Tutorials (2)

Folgende Tutorials können optional noch interessant sein:

- ▣ **Objects** (für Java-Programmierer selbsterklärend)
- ▣ **Color**
- ▣ **PVector**
- ▣ **Images**