## 1.1 HTML5 2.1 CSS3 2.2 JS 2.3 ES6 2.4 Python 2.5 Linux 2.6 2.7 C git 3.1 adb 3.2 3.3

3.4

3.5

Termux

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- 2. 0000000

- HTML5
  - o [[[[[
    - 0000000000
    - 000000000
  - - **-** 000000
  - API

    - 000000
  - Canvas

    - **-** 00000

    - **-**

# HTML5

## HTML5 [][[]

<header></header>

<footer></footer>

<article></article>

<aside></aside>

<nav></nav>

<section></section>

### HTML 🛮 🔻

- <video></video> □□
  - ∘ □□□controls □□□□□
  - || autoplay || || |
- <audio></audio> [[
  - Decontrols
  - Dautoplay
  - ||\_|loop ||\_|

# 

# 

- form[][]
  - autocomplete=on | off □□□□
  - novalidate=true | false □□□□□□
- input□□□
  - \*autofocus [] [][][][]

ПП

- form□
- list

### API

## 

- data-00000000data-00000
  - [[[[[[]]]]] Dom.dataset [[[[[]]]]
  - Dom.dataset.□□□ □□ Dom.dataset[□□□]

    □□ Dom.dataset[□□□]

    □□ Dom.dataset[□□□□]

    □□ Dom.dataset[□□□]

    □□ Dom.dataset[□□]

    □□ Dom.dataset[□]

    □□ Dom.datas



FileReader FileReader  readAsBinaryString  readAsText  readAsDataURL  FileReader
FileReader DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
• 0000000
window.navigator.onLine □□□□□□□
• 00000
<ol> <li>window.ononline</li> <li>window.onoffline</li> </ol>
1. 0000000
<pre>window.navigator.geolocation.getCurrentPosition(success 1. coords.latitude</pre>
2. 0000000
window.navigator.geolocation.watchPosition(success,err
• localStorage  • DDD

- **|**|||||
- □□□□□20M

- sessionStorage

  - 000000000
  - 00005M00

```
window.sessionStorage.setItem(key,value)
window.sessionStorage.getItem(key)
window.sessionStorage.removeItem(key)
window.sessionStorage.clear()
```

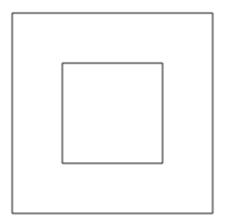
### **Canvas**

- [[] strokeStyle="[]"
- [][][] lineJoin: round | bevel | miter ([][])
- \_\_\_\_\_ | round | square

```
ctx.closePath(); //DDD
```

ПППП

```
var grd=ctx.createLinearGradient(x0,y0,x1,y1);
 • x0-->
 • y0-->0000y00
 • x1-->\|\|\|\|\|\|\|\|
 • y1-->0000y00
 grd.addColorStop(0.1, "yellow"); //_____
 grd.addColorStop(1,"red");
                    //00000000
 ctx.strokeStyle=grd;
 ctx.stroke();
 ctx.createradialGradient(x0,y0,r0,x1,y1,r1);
 • (x0,y0)
 • r0
 • (x1,y1)
 • r1000000
ctx.fill();
                //000000
  ctx.fillstyle="[]"; //[[[]][[]]
```



- 000000

  - **||||||**

# 

### 1.

[10,5] [10px [5px ]5px

□□□ [10,5,20] □□□□10px □□5px □□20px □□□□10px □□5px □□ 20px....

## 2. 🔲

```
content.strokeRect(x,y,width,height)
content.fillRect(x,y,width,height)
□□□ content.clearRect(x,y,width,height)
1. □□□
 2.
 3.
content.fillText([[[[[[[]]]],x,y)
content.strokeText();
content.font="20px □□□□"
content.textalign="left | right | center"
content.textBaseline="top | middle | bottom | alphabetic(□[
 • 000000
    • ctx.shadowColor="red"; [][[][[][[][][]

    ctx.ShadowOffsetX=[]; [][][][][][][][]

    ctx.shadowOffsetY=[]; [][][][][][][]

    \circ ctx.shadowBlur=[]; [][][][][][][]
```

```
//00000000000000
     content.drawImage(\square\square\square,x,y);
    content.drawImage(\square\square\square,x,y,width,height);
     content.drawImage(\Box\Box\Box\Box, sx, sy, swidth, sheight, dx, dy, dwidth)

    swidth[]sheight [] [] [] [] [] []

 content.arc(x,y,radius,startradian,endradian[,direct]);
 1. x,y □□□□□
 2. radius □□
 3. startradian □□□□
 4. endradian □□□□
 5. direct [[[[[[]]]]] false[] true [[[[[]]]]]
__ _ _ _ _ _ _ _ _ _ _ 180:pi
 • 000: 000000000 0000000000
 • 🗆
     \Theta \square = \Theta \square \square
     30 \square = \pi/6
                 (18000000)
     45 \square = \pi/4
     60 \square = \pi/3
     90 \square = \pi/2
     180 \square = \pi
     360\square = 2\pi
```

• 000

 x=ox+rcos(□□) y=oy+r\*sin( □□ ) • ox: [[[[[[[ • oy: [[[[[[[[ ∘ r□ □□□□ ctx.translate(x,y); • ||moveTo(x,y) |||||| • moveTo(x,y) \_\_\_\_\_\_ • translate(x,y) [[[[[[]]]]][[[[]]][[[]]][[[]] ctx.rotate(□□) ctx.scale(x,y)

<sup>1</sup>. □□□□□□data-\*\* ↔

- CSS3
  - o [][
    - **-**
    - **-**
    - **-** []
  - o [[[
  - o [[[[
  - 2D[[
  - 3D[[
  - o [][
    - **-**
  - •

# CSS3

### 

background-origin□

## 

### 

background-clip□

### 

background-size[ cover

contain

- box-shadow 🛮 🖺 🖺 🖺
- border-radius 🛮 🗀 🗀 🖸
- border-image: □□□□

- - 1. 000000 [000=0] {} [000] {} 00000000 [000^=0] {} 0000 [000\*=0] {} 00 [000\$=0] {} 0000
  - 2. 0000000

:last-child {} \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[ \] \[

- **|**|||
  - n [[[[[[[]]]]]]]]0

  - even\_\_\_\_\_
  - n [][][][] an+b[][]



- 00000
  - 1. 00000000
  - 2. 00000
  - 3.

- 4. to + right | top | bottom | left
- 5. 00000000 0deg [00000] 90deg00000
- 00000

```
/* □□□□ */
background-image: radial-gradient(
    100px at center,
    red,
    blue
);
```

# **2D**□□

- [ transform: translate(100px,100px);
- [ transform: rotate(60deg);
  - **000 0000**
- [ transform: scale(0.5,1);
  - $\circ \ \, 0000000000000000000001$
- [ transform: skew(30deg,30deg);
  - **|**|||
    - 1. 0000000x00000
    - 2. 0000000y00000

# **3D**□□

- [ transform: translateX() translateY() translateZ()
- transform: rotateX(60deg) rotateY(60deg) rotateZ(60deg);
- [] transform: scaleX(0.5) scaleY(1) scaleZ(1);
- □□ transform: skewX(30deg) skewY();
- [[[]] transform-style: preserve-3d;

## 

```
/* 10000 */
@keyframes rotate {

    /* 00000 0%*/
    from {
        transform: rotateZ(0deg);
    }

    /* 00000 100%*/
    to {
        transform: rotateZ(360deg);
    }
}
```

# 

```
display∏ flex
```

#### 

- 2.
- 3. 000 000000000
- 4. 000 0000000
- DDDDDDDDDDflex-direction

```
flex-direction: row;
flex-direction: row-reverse;
flex-direction: column;
flex-direction: column-reverse;
```

• ||||||||||||( justify-content)

```
/* DDDDDDDDDDDD */
justify-content: flex-start;
justify-content: flex-end;
justify-content: center;
justify-content: space-between;
justify-content: space-around;
```

• [[[[]]] [] [align-items[]

```
align-items: flex-start;
align-items: flex-end;
align-items: center;
/* DDD */
align-items: stretch;
```

- - 2. DDDDD flex-wrap: wrap | nowrap;
- [][][][][] align-content[]

```
align-content: flex-start;
align-content: flex-end;
align-content: center;
align-content: space-around;
align-content: space-between;
/* □□□□□□ */
align-content: stretch;
```

- JS[[
  - o [[[[
  - - **-**
  - o | | | | | | | | | |

  - o 🔲
    - 0000000
    - **-** 00001
    - **-** 00002
    - **-** 0000(0000)
  - o [[[[]]]]
  - o [

    - **-** 00040000
- JS[[
- - 000000——00000(00)
    - 🔲
    - 🔲
    - **|**
    - Date

```
var student={
    name:"[]" , //student[]]name[]]"""
    grade:"[]" ,
    //a[student[]]say[]]
    say:function(){
        console.log("[]");
    },
    run:function(speed){
        console.log("[]]"+speed+"[]/[]][]]");
    }
}
```

- name[[[]] grade[[[[]]
- say[[[] run[[[]

## 

### 

#### 

- student.name [][] name [][]
- student.say [[[[[[[[

### 

- student["name"] [] student.name
- student["say"] [] student.say

- - · .

```
var obj={};
obj.this=5; //
obj.0=10; //
```

- []
  - o1[□□name]
  - ["class"][["this"][] obj["this"]=10
  - $\circ$  obj[3]=50 = obj["3"]=50
  - o ["[object Array]"] jquery□□□□□□□□
  - o ["{abc}"] □□□□□ {abc} □□

- student["gender"]="[]" [][] student.gender="[]"
- $\square \square 1 \square$  student.isFemale=true
- [2] student["children"]=[1,2,5]
- **00**30

```
student.toShanghai=function(){
    console.log("[][][][][][][][][][]]
}
```

### 

- delete student["gender"]
- · delete student.gender

## 

#### 

- var xiaoming = new Object() --> var xiaoming = {};
- var now = new Date()
- var rooms = new Array(1,3,5) --> var rooms = [1,3,5]
- var isMale=/123/; ==> var isMale=new RegExp("123")
  - isMale\_\_\_RegExp\_\_\_\_\_\_\_
  - isMale RegExp RegExp

# 

• 0000

```
function Person(name,age){
    this.name=name;
    this.age=age;
}
var p1=new Person("[[]",18)
```

• [][] p1[][][Person[][][][][][]

### 

• [[[]] function CreateFunc(){ }

- - new CreateFunc(); [] CreateFunc
  - CreateFunc(); [][][CreateFunc[][][][]
- new Object()

- 2. \_\_\_\_\_\_ this \_\_this\_\_\_\_\_(\_p1)
- 3. \_\_\_\_\_\_\_this\_\_\_\_\_(\_p1)
- 4. □□□□
  - a\_\_\_\_\_(\_\_return\_\_\_)\_\_\_\_\_(p1)
  - b\_\_\_\_\_(\_p1)

```
function fn(){
}
var f1=new fn();  //f100fn000

function fn2(){
   return "abc";
}
var f2=new fn2();  //f20fn2000000
```

#### 

String[][][][][a[String() b[]new String()

\_\_\_new\_\_\_new\_\_\_new\_\_\_\_new\_\_\_\_

var isTrue=xxx instanceof Person

8. 0000xxx0000000000000

xxx.**proto** 

9. typeof



```
function Person(){
    this.say=function(){
        console.log("""")
    }
}
var pl=new Person();
var p2=new Person();
console.log(p1.say === p2.say); //false
```

## 

```
Person.prototype.say=function(){
    console.log("[]]")
}
```



```
Person.prototype={
    constructor:Person,
    say:function(){
        console.log("""");
    },
    run:function(){
        console.log("""");
    }
}
```

- a
- b\_\_\_\_\_\_constructor\_\_\_\_\_\_

## 

### 

```
var o1 = {age:2};
var o2 = o1;
o2.age = 18;
```

- 1. □□□o2□□□age
- 2. o20001000000
- 3. o1[[[[]]age[[[[]][[]][]]

```
var o3 = {gender:"[",grade="[]",group:"[][",name:"[]["];
var o4 = {gender:"[]",grade="[][",group:"[][]",name:"[]["];
```

- 1. [[[[]]]][03[[]]
- 2. □□o3□□□□□for...in□□

```
//a. 00300000
for(var key in o3){
    //key0o30000
    //b. 0000000
    var value = o3[key];
    //c. 0000004
    o4[key] = value;
}
```

```
o4.name="□□"□
```

### 

### 

```
var source={name:"[][",age:15}
var target={};
target.name=source.name
target.age=source.age;
```

### 

```
function extend(target, source) {
    for(key in source) {
        target[key]=source[key];
    }
    return target;
}
extend(target, source)
```

### 

- jquery
  ☐ \$.extend

```
var source={name:"[[]",age:15}
var target={ ...source }
var target2={...source,age:18}
```

- 000
  - **000000000**

```
var parent = {age:18,gender:"["]"};
var student = Object.create(parent);
console.log(student)
```

- 00000
  - □□□□Object.create(null)

```
var o1={ say:function(){} }
var o2=Object.create(o1);
```

var o3={} o3□□□□

## 

- \_\_\_\_Animal\_\_\_\_\_Person\_\_\_\_\_Person\_\_\_\_

```
function Animal(name,age,gender){
    this.name=name;
    this.age=age;
    this.gender=gener;
}

function Person(name,age,gender,address){
    // Animal.call(this,name,age,gender);
    //DDD
    Animal.apply(this,[name,age,gender]);
    //this.name=name;
    //this.age=age;
    // this.gender=gender;
    this.address=address;
}
```

• 000000000

- 00000
- Dobject.prototype
  - var arr=[1,3,5]
  - arr.**proto**Array.prototype
  - arr.proto.proto

```
function Animal(){}
var cat=new Animal();
//cat.__proto____Animal.prototype
//cat.__proto__.__proto__:
```

• [[[[[]]]]Object[



# 

```
//DDDD
//1DDD
var gender="D";
function fn(){
    console.log(age);//age:undefined undefined
    console.log(height);//height
    //2DDD
    return function(){
        //3DDD
        var height=180;
    }
    var age=5;
}
```

- fn

- - 4. \_\_\_\_\_(xxx is not defined)

• **[]** 

```
var name="[]";
function f1(){
    var name="abc";
    console.log(name);
}
f1();
```

• **||2|** 

```
var name="[]";
function f1(){
    console.log(name);
    var name="abc";
}
f1();
```

• **[**]3

```
var name="[]";
function f1(){
    return function(){
        console.log(name);
    }
    var name="abc";
}
var fn=f1();
fn();
```

• 0040

```
var name="[]";
function fl(){
    return {
        say:function(){
            console.log(name);
            var name="abc";
        }
    }
}
var fn=fl();
```

```
function fn(){
  var a=5;
  return function(){
    a++;
    console.log(a);
  }
}
var f1=fn();
//000000fn000000000
f1();//6
f1();//7
f1();//8
```

```
function q2(){
    var a={};
    return function(){
        return a;
    }
}
var t3=q2();
var o5=t3();
var o6=t3();
console.log(o5==o6);//true
var w3=q2();
var o8=w3();
console.log(o5==o8);//false
```

- 00000

```
function f1(){
    var a=5;
    return function(){
        a++;
        console.log(a);
    }
}
var q1=f1();
//000q10000a,00000q1
q1=null;//q1=undefined;
```

- 000
- 000000

# 00040000

1.

```
var age=18;
var p={
    age:15,
    say:function(){
        console.log(this.age);
    }
}
var sl=p.say;
sl();//DDD--> this: window D18
```

### $\square$ window

### 2. 🛛 🖺 🖺

```
var age=18;
var p={
    age: 15,
    say:function(){
        console.log(this.age);
}
p.say(); //00015
function Person(){
   this.age = 20;
}
Person.prototype.run=function(){
    console.log(this.age);
var p1=new Person();
p1.run(); //ppp20
//
var clear=function(){
    console.log(this.length);
}
var length=50;
var tom={c:clear,length:100};
tom.c();//\Box\Box 100 this\Box\Box tom
```

### 3. new[][][][]

```
//1
function fn(name){
   this.name=name;
}
//_new_____
var _n=new fn("□□");
//2
function jQuery(){
   var _init=jQuery.prototype.init;
   return new _init();
jQuery.prototype={
   constructor:jQuery,
   length:100,
   init:function(){
       //1.this___init_____
       //3._____(Object
       //4.____undefined
      console.log(this.length);
   }
jQuery.prototype.init.prototype=jQuery.prototype;
jQuery();//DD100
```

### 4. [[[[]]]call,apply,bind[]

```
var name=21;
function f1(){
   console.log(this.name);
}
f1.call([1,3,5]);
f1.apply(this);
f1.call(5);
//00
//call_____
//1.0000000000000000this
//2. Double fined null, Dobb this window
//3.____new Number(___)___-->this__new String
//bind[ES5(ie9+)
var obj={
   age: 18,
   run:function(){
       setTimeout((function(){
          console.log(this.age)
       }).bind(this),500)
       //____bind_____c
   }
}
obj.run();
//bind[[[[
function speed(){
   console.log(this.seconds);
}
var speedBind=speed.bind({seconds:100});
speedBind();//[[100]]
call_apply____this__
• 000000
      function toString(a,b,c){
         console.log(a+" "+b+" "+c);
      }
      toString.call(null,1,3,5);
      toString.apply(null,[1,3,5])
```

5. bind□□□□

```
//target[][][][][]this[]
Function.prototype._bind=function(target){
   return ()=>{
      //[[]fn[][][]
      this.call(target)
   }
   //000
   // var _that=this;
   // return function(){
   // _that.call(target);
   // }
}
function fn(){
  console.log(this);
}
var _fn=fn.bind({age:18});
```

- 6. bind\_\_\_\_\_ fn.\_\_proto\_\_ === fn\_\_\_\_\_.prototype
- 7. \_\_\_\_\_Function

- - o | | | | | |
  - o [[[[
  - o [[[[[
    - rest[]
    - **-** 0000
  - o [[[[[
  - Promise

    - Promise□□□□□□
    - PromiseImage: Image: Image:
    - Promise □□□□□□
  - async
  - class
  - module

    - 00000000

# **ES6(**|||||||||||)

# 



```
var obj={name:"[[]",age:18}

var {name,age}=obj;
//[[2][[][]]]
// name[[[][[][][][][]]]
// age[[[][[][][][][]]]

var {name:title}=obj;
//[[[][[][][][][]]]]
```

### 

```
function f1(obj){
    console.log(obj.age);
    console.log(obj.height)
}
//□□□
function f1({ age,height }){
    console.log(age);
    console.log(height)
}
f1({age:5,height:180})
```

### 

# 

# rest[[

- [[[]]es6[]
- |||||arguments|||||||||rest|||||||

```
function fn(...args){
    //@args@@@@@
    console.log(args instanceof Array);//true
    console.log(Object.prototype.toString.call(ar
    console.log(Array.isArray(args));
    console.log(args); //@@@[1,2,3,4,5]
}
fn(1,2,3,4,5)
```

- 000000
  - typeof
    undefined
  - Object.prototype.toString.call()
  - Array.isArray()
  - isNaN()
  - isInfinity()

- 000000000
- 00000

```
div.onclick=function(){
    console.log("[]")
}

//[[][][]

div.onclick=()=>{
    console.log("[]")
}
```

• 000000000

```
var fn=(a)=>{
    console.log("abc");
}
//DDD
var fn=a=>{
    console.log("abc");
}
```

• 02000000000

```
var f=(a,b,c)=>{
    console.log("abc")
}
```

- - 00000this

  - DDDDarguments
  - - generator
      async

```
var p={
age: 18,
run:()=>{
  setTimeout(()=>{
      console.log("run",this);//this□□window
 },100)
},
say(){
  setTimeout(()=>{
      console.log("say",this);//this□□p
 },100)
},
//0000000
travel:function(){
  setTimeout(()=>{
      console.log("travel",this);//this
 },100)
}
}
```

• Object.assign [[[[[[[[

```
var source={age:18,height:170,className:"[[[]]"]"};
var newObj=Object.assign({},source);
```

• 000000

```
var obj1={ age:5,gender:"[" }
var obj2={ ...obj1 }
var obj3={ ...obj1 , age:10 }
var s1=[1,3,5,7,9];
var s2=[...s1];
```

### **Promise**

\_\_\_\_promise\_\_\_\_\_



```
$.get("/getUser",function(res){
   $.get("/getUserDetail",function(){
       $.get("/getCart",function(){
           //...
       })
   })
})
function f1(){
    return new Promise((resolve)=>{
       setTimeout(()=>{
           console.log("[[[]]");
           resolve();
       },1000)
   })
}
function f2(){
    return new Promise((resolve)=>{
       setTimeout(()=>{
           console.log("[[[]]");
           resolve();
       },1000)
   })
}
f1().then(res=>{
   //return promise□□
  return f2();
}).then(res=>{
   setTimeout(()=>{
       console.log("□□");
   },1000)
})
```

# **Promise**

```
var promise=new Promise((resolve, reject)=>{
    $.get("/getUser", res=>{
        resolve(res)
    })
})
promise.then(res=>{
    console.log(res);
})
```

# **Promise**

```
new Promise((resolve, reject)=>{
    $.get("/getUser", res=>{
        resolve(res)
    })
}).then(res=>{
    //000000
    return new Promise(resolve=>{
        $.get("/getUserDetail", res=>{
            resolve(res)
        })
    })
}).then(res=>{
    //0000
    return new Promise(resolve=>{
        $.get("/getCart", res=>{
            resolve(res)
        })
    })
}).then(res=>{
   //00000
})
```

# **Promise**

• 00000

```
new Promise((resolve, reject)=>{
    $.ajax({
        url:"/getUser",
        type: "GET",
        success:res=>{
            resolve(res);
        },
        error:res=>{
            reject(res)
        }
    })
}).then(resSuccess=>{
    //000000
},resError=>{
    //000000
})
```

```
new Promise((resolve, reject)=>{
    $.ajax({
        url:"/getUser",
        type: "GET",
        success:res=>{
            resolve(res);
        },
        error:res=>{
            reject(res)
        }
    })
}).then(resSuccess=>{
    //000000
}).catch(resError=>{
    //000000
})
```

### async

```
function f1(){
   return new Promise((resolve)=>{
       setTimeout(()=>{
           console.log("[[[]]");
           resolve();
       },1000)
   })
}
(async function(){
   await f1();
   console.log("[[[]]");
})()
async function get(){
   var res = await timer()
   console.log('\( \) res);
}
function timer(){
   return new Promise((resolve, reject)=>{
       setTimeout(()=>{
           resolve("[[]");
       },1000)
   })
}
get();
```

#### \_\_\_\_try-catch

```
function q(){
    return new Promise((resolve, reject)=>{
        setTimeout(()=>{
            reject("[]]");
        },1000)
    })
}
(async function(){
    try{
        let res=await q();
        console.log(res);
    }catch(e){
        console.log(e);
    }
})()
```

### class

# 

```
class Person {
    constructor(name,age) {
        this.name=name;
        this.age=age;
    }
}
//DDD
function Person(name,age) {
    this.name=name;
    this.age=age;
}
```

```
//[[[class[[[[[]]]]]]
function Person(){
}
Person.prototype.run=()=>{
   console.log("run");
}
//[[class[[]]]]
class Person {
    constructor(name,age) {
        this.name=name;
        this.age=age;
    }
    //0000
    say() {
        console.log("[[[[]]]"+this.name+"[[[]]"+this.age
    }
    travel(){
        console.log("[[[[[[]]]]]]");
    }
}
```



```
class Animal {
    constructor(){

    }
    static age=18;
    static born(){
        console.log("[]]]]]")
}

//[][][][][]
Animal.born();
console.log(Animal.age);
```

### module

• 00000

```
//common.js
export default { name:"abc" }
```

• 00000

```
//b.js
import common from "common.js"

console.log( common.name ) //"abc"
```

```
//person.js
export const jim = { country :"France" }
export const tony = { color:"gray" }
//DDDDD
export default { name:"abc" }
```

```
//index.js
import person , { jim , tony } from "person.js"

//person[{ name: "abc" }

//jim[{ country : "France" }

//tony[{ color: "gray" }
```

```
//person.js
export const tony = { color:"gray" }
export { tony as Tony }

//index.js
import { Tony } from "person.js"
import { Tony as man} from "person.js"

console.log(man) //{ color:"gray" }
```

- python
  - Anaconda

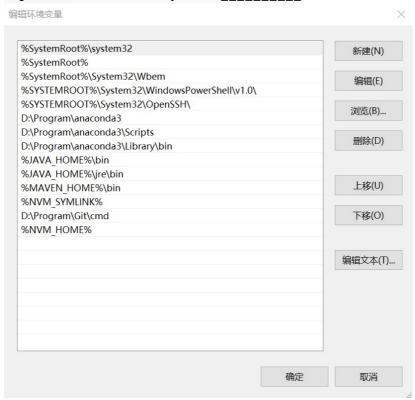
    - **-**

# python

#### **Anaconda**

- 1.

  - DDDDDhttps://www.anaconda.com/download/
- 2. \_\_\_\_PATH\_



- 3. □□

  - $\circ$   $\square$ Conda $\square$ cmd $\square$  $\square$  conda  $\square$  pip  $\square$

ПП

#### 1. 00000

Windows [][][][][][] .condarc [][][][][][][][][]
 config --set show\_channel\_urls yes [][][][][][][][]

channels:
- defaults
show\_channel\_urls: true
default\_channels:
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/
custom\_channels:
conda-forge: https://mirrors.tuna.tsinghua.edu.c
msys2: https://mirrors.tuna.tsinghua.edu.cn/anac
bioconda: https://mirrors.tuna.tsinghua.edu.cn/a
menpo: https://mirrors.tuna.tsinghua.edu.cn/anac
pytorch: https://mirrors.tuna.tsinghua.edu.cn/an
simpleitk: https://mirrors.tuna.tsinghua.edu.cn/an

#### 2. | | | | | | | |

∘ □□□□□□ code

conda create -n code python=3

• 0000000

conda env list

• || || || |

activate code

• 00000

conda remove -n aiconfig --all

□□ipython

conda install -c anaconda ipython

∘ □□□□□ deactivate

#### 3. [[pip[]

Windows conda conda pip pip pip.initC:\Users\xxx\pip\pip.ini

```
[global]
index-url=http://mirrors.aliyun.com/pypi/simple/
[install]
trusted-host=mirrors.aliyun.com
disable-pip-version-check = true
timeout = 6000
```

- linux
  - o | | | | | |
  - o | | | | |
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  - o 🔲
  - Is[[
  - o | | | | | |
  - o | | | | | |
  - o [
  - vi[[[
  - o | | | | |
  - o | | | | |
  - 0 | | | | |
  - bzip2□□
  - bzip2□□□
  - zip[
  - unzip[][]

### linux

- /0000
- /bin: /usr/bin: \_\_\_\_\_\_\_star\_mv\_cat\_\_
- /boot\_\_\_linux\_\_\_\_\_\_Linux\_\_\_\_\_/boot/vmlinuz\_\_\_\_

- /home\_\_\_\_\_\_
- /lost+fount\_\_\_\_\_
- /mnt: /media\_\_\_\_\_\_/mnt/cdrom \_\_\_\_\_\_\_
- - $\label{lem:condition} $$ /\operatorname{proc/interrupts}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/ioports}_{\operatorname{proc/io$
- /root\_\_\_\_root\_\_\_

- /sbin: /usr/sbin: /usr/local/sbin
- /tmp\_\_\_\_\_\_

- [[[]] ctrl+l
- [][][] ctrl+c

### 

- □ r □read
- □ w □write
- □□ x execute
- d rwx rwx rwx □□□□

```
12 wsj0051 wsj0051
                                 4096 Nov 26 20:55
                                 4096 Nov 19 17:18
             3 root
                       root
                                 7700 Nov 27 11:43 .bash_history
               wsj0051 wsj0051
                                 220 Nov 19 17:18 .bash_logout
             1 wsj0051 wsj0051
                                4055 Nov 25 21:28 .bashrc
             1 wsj0051 wsj0051
             3 wsj0051 wsj0051
                                4096 Nov
                                         25
                                             21:17
                                                   .cache/
             5 wsj0051 wsj0051
                                4096 Nov 25
                                             21:17
1 2 3 4
```

- 1.
- 2. 00000
- 3. | | | | | | | |
- 4. 0000000
- 5. 🔲
- 6. □□□

### ПП

- 🔲 --help
- man □□

# Is<u>□</u>□

- ls [[[]
  - ∘ ls -a □□□□□□□□□□

  - ls -all [[[[[[[]]]]]]
  - ll □□
- 0000
  - o \* [][][][][] 0-256
    - a\* □□□□□□ 256□□
  - · ? [][][][][]
    - a □ □□□□
  - o [a-z] □□□
    - 00a0z00000000000000
  - ∘ [abcde] □□□

# 

- cd ~ 000000000
- cd .. [][[][[][]
- cd . [[[[[[[[
- cd 0000000

## 

- mkdir 000 0000
- mkdir □□□ -p □□□□
- rmdir 000 000000
- rm 000 0000
- rm 000 -i 00000
- rm -r 000 0000

- 1. 000 ln 000 0000
- 2. [ ] ln -s [ ] [ ] [ ]

- · 000000001

# vi[[

- ctrl+z [[[[[
- jobs [[[[
- fg 🔲 🔲

ZZ	
:wq	
:q!	
[n]x	0000 n 000
[n]X	0000 n 000
D	0000000000000
[n]dd	000000000 n 00000000000000000000000000
[n]yy	00000000 n 0
р	
dG	000000000000000
J	
	000000
u	000000
gg	00000
G	00000
:set ic	
:set noic	
:set nu	
:set nonu	
a	00000000
i	000000000
0	00000000
0	000000000
1	000000000
Α	000000000
:r 🔲 🗆	00000000000000
:s/w1/w2/g	w2w1
:g/p1/s//p2/g	p2p1
:10,20s/p1/p2/g	[]10[]20[][[p1[]p2[]
/00	00000n0000N0000

```
grep '[][][]' [][]
 • 🔲
    ∘ -n [[[[[
    -V □□
    ∘ -i □□□□□
 • 000
    o ^a □a□□□□□□□□□□
    ∘ a$ [a[[]][[]][[][]
    find [] [] []
 • -name □□□

    -size □□

 • -perm rwx
tar∏∏
 tar -cvf [][][].tar [][1 [][2 [][1 [][2
tar[[[[
 tar -xvf [[[[]].tar -C [[
gzip _____.tar.gz______.tar_____.
 gzip [[[[]].tar
gzip -d [][][][][].tar[]
 gzip -d □□□□.tar.gz
```

tar -czvf [][].tar.gz [][1 [][2 [][1 [][2

#### 

tar -xzvf □□□.tar.gz -C □□

# bzip2□□

 $\texttt{tar -cjvf} \ \, \underline{\ \, \,} \ \, \underline{\ \,} \$ 

# bzip2[[[

tar -xjvf □□□.tar.bz2 -C □□

# zip[[

zip 000 001 002 001 002 000000000.zip

# unzip[[[

unzip □□□.zip -C □□

- C
  - Hello World
  - System
  - C
  - o [[[[

### **Hello World**

#### \_\_hello.c\_\_\_\_\_\_

```
#include <stdio.h>
int main(void)
{
    printf("Hello World\n");
    return 0;
}
```

```
gcc -o hello.cgi hello.c
```

# **System**

- [][system[][][][][][]
  - [[[[[]]]] <stdlib.h>



- 1. 0000000
- 2. DCDDDDDDDDDDDDDD

# 

1.

```
#define _CRT_SECURE_NO_WARNINGS
```

- 2. □□□□ #pragma warning(disable:4996

```
gitssh□□□□
```

# git

#### 

```
git config --global user.name "your user name"
git config --global user.email "your email"
```

#### □Git□□□□

```
git config --global color.ui true
```

#### git

```
git config --global alias.lg "log --color --graph --pretty=
```

#### 

- 1. HTTPS
- 2.  $SSH_{\square\square\square\square}$  git@github.com: $\square\square\square/\square\square\square$ .git

#### git\_\_\_sourcetree

# ssh□□□□

```
ssh-keygen -t rsa -C "your email"
```

\_\_\_\_github\_gitee\_\_\_\_\_.ssh \_\_\_config\_\_

# gitee
Host gitee.com
HostName gitee.com
HostkeyAlgorithms +ssh-rsa
PubkeyAcceptedAlgorithms +ssh-rsa
PreferredAuthentications publickey
IdentityFile ~/.ssh/id\_rsa
# github
Host github.com
HostName github.com
PreferredAuthentications publickey
IdentityFile ~/.ssh/id\_rsa

#### \_\_\_\_github\_,\_\_\_\_

ssh -T git@github.com

- adb
  - adb □□□□
  - □□apk
  - □□adb fastboot □□
  - □□ fastboot □□ Recovery
  - □□ Recovery □□□□ROM

### adb

# adb □□□□

adb connect 127.0.0.1:58526

# □□apk

adb install □□/□□□.apk

# **□□adb** fastboot **□□**

1. □□adb fastboot□□

sudo apt install adb fastboot

2. DUSBDDDDDDDDDDDDDDDDD

adb devices

 $3. \square\square\square fastboot\square\square$ 

adb reboot-bootloader

tar zxvf clover\_images\_V10.3.2.0.0DJCNXM\_20190515.0000.

5. 0000000

cd clover\_images\_V10.3.2.0.0DJCNXM\_20190515.0000.00\_8.1

6.

adb reboot bootloader

□□□□□□□□□ fastboot □□□

- 0000000000 + 0000000000"FASTBOOT"0000000
- 4. \_\_\_\_ fastboot \_\_\_\_\_ PC \_\_\_\_\_ PC \_\_\_\_\_

fastboot devices

fastboot flash recovery twrp-x.x.x-x-x.img # [][]
fastboot boot .\twrp-x.x.x-x-x.img # [][][][][][][][][][][]

- - 000000000 + 0000000 Recovery 0000000

# □□ Recovery □□□□ROM

- 1. DDDDDDDDDROMDD
- 2. [[[[[]]]] Recovery [[[]]] Recovery [[]]
  - 000000000 + 0000000 Recovery 0000000

- 000000
  - o | | | | | |
  - •
  - XZ

  - o | | | | | |
  - o | | | | | |
  - aptitude





- Debian-Pi-Aarch64



shalsum 2013-09-25-wheezy-raspbian.zip
unzip 2013-09-25-wheezy-raspbian.zip

umount /dev/sdb1
umount /dev/sdb2

# 

sudo xz -cd kali-2017.3-rpi3-nexmon.img.xz> /dev/sdb

□□□□□□ sudo pkill -USR1 -n -x xz

# img\_\_\_\_

sudo dd bs=4M if=2013-09-25-wheezy-raspbian.img of=/dev/sdl

 $\square\square\square\square\square$  sudo pkill -USR1 -n -x dd

```
1. 00000000
    apt-get remove packagename
 2.
    apt-get purge packagename
apt-get install softname1 softname2 softname3.....
apt-get remove softname1 softname2 softname3.....
apt-get remove —purge softname1
□□□□□□□□ apt-get update
apt-get upgrade
apt-cache search softname1 softname2 softname3.....
□□deb□□□ dpkg -i xxx.deb
dpkg -r xxx.deb
dpkg -r -purge xxx.deb
□□□□□□ dpkg -info xxx.deb
dpkg -L xxx.deb
_____dpkg -l
dpkg-reconfigure xxx
dpkg -l |grep ^rc|awk '{print $2}' |sudo xargs dpkg -P
```

# aptitude

aptitude update □□□□□□□□

dpkg[[[[[[apt[[[[[[[[

- Termux
  - o [[[[[]]]]
  - o [[[[
  - o |||||||
  - •
  - o |||||||
  - Termux
  - o [[[[]]]]
    - -
    - | neofetch
  - npm@http-server
  - [[]ecj termux-tools dx[[]java[]
  - o | | | | | | | | |
  - || atilo || linux
    - □□apache java□□
  - IIIItmoe-linux
  - o [[[[

# **Termux**

termux-setup-storage	
00000000000000000000000000000000000000	
<pre>ln -s /data/data/com.termux/files/home/storage/shared/wsj</pre>	)(
4	•
0000000000 TUNA 000	

```
sed -i 's@^\(deb.*stable main\)$@#\1\ndeb https://mirrors.t
sed -i 's@^\(deb.*games stable\)$@#\1\ndeb https://mirrors
sed -i 's@^\(deb.*science stable\)$@#\1\ndeb https://mirror
apt update && apt upgrade
```

```
pkg update
pkg upgrade
pkg install vim curl wget git unzip unrar
```

## 

```
sh -c "$(curl -fsSL https://github.com/Cabbagec/termux-ohmy
```

#### 

```
Enter a number, leave blank to not to change: 14
Enter a number, leave blank to not to change: 6
```

#### 

~/termux-ohmyzsh/install.sh

## **Termux**



```
vim $PREFIX/etc/motd
Domain
Domain
Domain
pkg install vim
____sh___
 cd $PREFIX/etc
 vim motd
motd_____
 #!$PREFIX/bin/bash
 neofetch
mv motd profile.d/motd.sh
____sh___.zshrc
 mv $PREFIX/etc/profile.d/motd.sh .
 echo "$PREFIX/bin/bash ~/motd.sh" >> ~/.zshrc
□neofetch□□
 cd .config/neofetch
 vim config.conf
npm□□http-server
 npm install -g http-server
____ Server_
 http-server
```

0000000000 Server 000 8080 000000000000000000 IP 000

# **□**□ecj termux-tools dx**□**□java**□**□

1.

```
pkg update & pkg upgrade
```

2.

```
pkg install ecj termux-tools dx
```

3. □□java□□Hello.java

```
public class Hello{
   public static void main(String[] args){
     System.out.println("Hello World!");
   }
}
```

```
ecj Hello.java
```

5. 00000000

```
dx --dex --output=Hello.dex Hello.class
```

6.

```
dalvikvm -cp Hello.dex Hello
```

7. DDDDDDDshellDD vim ecj.sh

```
#!/usr/bin/sh
ecj "$1.java"
dx --dex --output="$1.dex" "$1.class"
dalvikvm -cp "$1.dex" "$1"
```

8. □□shell□□java

```
sh ecj.sh Hello
```

#### 

- 1. [[[[[]]]]]adb[[[]]
- 2.

```
pkg install tsu
adb shell
settings put secure clock_seconds 1
```

# **□**□atilo**□**□linux

1. □Termux□□Linux□bash□□

```
echo "deb [trusted=yes] https://yadominjinta.github.ic
pkg in atilo-cn
```

2. □□debian

```
atilo pull debian
```

3. □□debian

atilo run debian

# **□**□apache java□□

- 1. | usr/local | | java | | java | java
- 2. □□jdk□tomcat

```
cd /usr/local/java
tar xzf jdk-8u241-linux-arm64-vfp-hflt.tar.gz
tar xzf apache-tomcat-9.0.31.tar.gz
```

3. [[[[[]]]] /etc/profile [[[[]]]]

```
JAVA_HOME=/usr/local/java/jdk1.8.0_241
PATH=$JAVA_HOME/bin:$PATH
CLASSPATH=$JAVA_HOME/jre/lib/ext:$JAVA_HOME/lib/tools.
export PATH JAVA_HOME CLASSPATH
```

4.  $\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square$  java -version  $\square\square\square\square\square\square\square\square\square\square\square\square$ 

source /etc/profile

# **□□□**tmoe-linux

. <(curl -L gitee.com/mo2/linux/raw/2/2)</pre>



- 1. D-Termux
- 2. 🔲
- 3. tmoe

- [
  - Jenkins
  - maven□□□□jar



# **Jenkins**

- 000000
  - hpi□□□□
  - Theme
- 00000
  - □□jar□ jenkins/WEB-INF/lib/jenkins-core-1.651.3.jar □□□□ lib/layout/layout.jelly

# maven□□□□jar

mvn install:install-file -Dfile=junit-4.8.1.jar -DgroupId=;