# جلسهٔ ۱ه

# • cite [sth.]

to speak or write the exact words from a book, etc.

• cite sth. as sth.
to mention something as a reason or example to support what you're saying.

# focal point

the central and important point

focuses/foci (pl.)

# • curricula

برنامهٔ تحصیلی، دورهٔ تحصیلات

• curriculum (sg.)

# • put into perspective

to compare something to other things so that it can be judged fairly and accurately

### chairman

رئيس مجلس

#### affiliation

وابستگی، تعلق داشتن

#### intuition

شهود

#### intuitively

(adv.)

#### • insight [into]

the ability to see the truth about situations.

#### respective

relating to two or more persons individually

- e.g. They are successful in their respective fields.
- e.g. A lack of IT and financial management expertise come in second and third places respectively.

#### • find one's way into sth.

a particular place unintentionally and by chance

e.g. I found my way into counselling after grief became too much to bear.

#### all the more

even more than before

بیش از پیش

e.g. Several publishers rejected his book, but that just made him all the more determined.

# through

از طریق

# thoroughly

completely

#### dedicate

وقف كردن

#### discipline

field of study

#### interdisciplinary

میانرشتهای، بینرشتهای

e.g. an interdisciplinary research program

#### disciplined

trained to obey rules and behave in a controlled way

e.g. a disciplined science

### editorial board

هيئت تحريريه

purpose

هدف

# periodical

ماهنامه، هفتهنامه، گاهنامه [تخصصی]

• to effect sth.

to make something happen

#### continual

recurs frequently or regularly متناوب

 $\ensuremath{\text{e.g.}}$  The wolf's  $\ensuremath{\text{continual}}$  howling echoed through the forest.

#### continuous

happens without interruptions

پيوسته

e.g. Recovery after the accident will be a continuous process that may take several months.

# ensue

following

# merely

only

# (i) Info

to be + "to" + verb

...قرار است

e.g. I am to go.

# جلسهٔ ۳۰

# • implicit

صريح

#### notion

مفهوم

#### to classify

ردەبندى كردن

- e.g. typical classification levels
- e.g. unclassified < confidential < secret < top secret

#### confide in sb.

to tell somebody secrets because you feel you can trust him/her e.g. It is important to have someone you can <u>confide</u> in.

#### stature

- 1. a person's natural height
  - قد و قامت
  - e.g. a man of short stature
- 2. importance, reputation

شهرت، اهمیت

### apparently

ظاهراً

# conceited

بسيار مغرور

# conceit

غرور بسيار

# • on the contrary

برعكس

# • in person

حضورى

e.g. He meets him in person.

# personally

شخصاً

e.g. He meets him personally.

#### after

about

e.g. She asked after you.

#### come to conclusion

نتيجه گرفتن

- stacks بخش خاص کتابخانه
- find out فهمیدن

# (i) Info

"in contrast to" + gerund

# جلسهٔ ۴۰

# corresponding

متناظر

• one-to-one correspondence

تناظر یکبهیک

#### fine arts

هنرهای زیبا

martial arts

هنرهای رزمی

• sculpture

مجسمهسازي

# survive

زنده ماندن

idiom

اصطلاح

• contrast sth. with sth.

چیزی را با چیزی مقایسه کردن

# cardinal numbers

اعداد شمارشی

ordinal numbers

اعداد ترتيبي

#### medieval

وسطايى

# liberal arts

علوم مقدماتی، هنرهای آزاد

#### so-called

بهاصطلاح

#### namely

e.g. I study two subjects, <u>namely</u> Physics and Maths.

#### • rhetoric

the art of persuasion

بلاغت، دانش شيواسخني، فن بيان

e.g. Such rhetoric may sell books.

e.g. It is empty rhetoric.

# derive

مشتق شدن

#### instinct

غريزه

# plow/ plough

شخم زدن

• cf.

confer

مراجعه به منبع و مقايسةً گفتههاي آن را با گفتههاي فعلي

e.g. cf. [6]

#### syllogism

قیاس منطقی/ روش به دست آوردن درستی یک گزاره از گزارههای فرضی درست e.g. the law of <u>syllogism</u>

• vs.

versus

در برابر

#### · take on meaning

این معنی را به خود میگیرد

#### stand for

- 1. to be an abbreviation or symbol of something
  - e.g. GMT stands for Greenwich Mean Time
- 2. to support something
  - e.g. Maybe you think his behaviour is ok, but I won't stand for it.
- to give advice to sb.
  - e.g. Ask your teacher for <u>advice</u> on how to prepare for the exam.
  - e.g. Let me give you a piece of advice.
  - e.g. Take my advice, don't do it
  - e.g. I chose it on his advice.

#### extreme

- 1. (adj.) very great in degree
  - e.g. extreme pressure
- 2. (adj.) as far as possible from the centre
  - e.g. He sat on the extreme edge of his seat.

### (i) Info

#### Past Perfect

e.g. I had done my homework when he came.

# (i) Info

#### Present Perfect

e.g. I have done my homework and now I am watching TV.

# (i) Info

# Future Perfect

e.g. the film  $\underline{\text{will}}$  already  $\underline{\text{have started}}$  by the time we get to the cinema.

# جلسهٔ ۵۰

### groundwork

بنيان

#### affairs

امور

- e.g. international affairs/foreign affairs/business affairs
- e.g. The debate was a pretty disappointing affair.

#### requisite

required

e.g.He lacks the requisite experience for the job.

#### prerequisite [for/to/of]

پیشنیاز

- e.g. Good self-esteem is a prerequisite for a happy life.
- e.g. A strong foundation in math is a prerequisite for studying.

### cause and effect

علت و معلول

#### heterogeneous

ناهمگن

#### exigency

an urgent need

ضرورت، نیاز مبرم

e.g. exigencies of practical life

#### to look up

to search for and find a piece of information in a book or database

#### to call for

to publicly ask for something to happen

- e.g. call for paper (CFP)
- e.g. The Data Science track calls for proper for the next international conference
- e.g. calling for the submission of abstracts

#### preface

پیشگفتار

# mineralogy

سنگشناسی، کانیشناسی

#### tolerably

fairly well but not very well

#### to deem [sth.]

to consider something

- e.g. I deemed it an honour to be invited.
- e.g. He deemed it prudent not to say anything.

#### scarce

- 1. (adv.) almost not
  - e.g. I can scarcely remember him.
- 2. (adj.) insufficient for the demand

#### · according to

طبق

#### systematize

to organize

#### · to turn one's thoughts to

to direct one's attention to

#### substitute

- 1. substitute A for B: آ بهجای ب قرار میگیرد.
- 2. substitute A with/by B: ب بهجای آ قرار میگیرد.

#### adopt

1. فرزندپذیری e.g. to <u>adopt</u> a child

2. اختیار کردن یک عقیده یا روش e.g. <u>adopting</u> a certain idea

#### gut

- دل و روده (n.) 1.
- 2. (adj.) based on feelings rather than reason
  - e.g. You have to work on gut instincts.

#### • in the long run

در طولانیمدت

e.g. We don't know what will happen in the long run.

#### herd

گله

#### to surround

احاطه كردن

### all of a sudden

ناگهان

e.g. All of a sudden I had firm pegs on which I could hang other knowledge.

#### flimsv

badly made, not strong enough

e.g. a flimsy table

#### somehow

in a way that is not known

e.g. I must get a new job somehow.

#### somewhat

to some degree

e.g. Our work has progressed somewhat.

# vague

مبهم

#### consensus

متفقالقول

#### characterize

توصیف صفات اختصاصی (سرشتنمایی)

e.g. The city is characterized by its tall buildings.

#### notion

concept, belief, idea

#### notation

a system of signs and symbols

e.g. scientific notation

#### to make progress

e.g. We are not finished yet, but we are making progress.

#### yet

- 1. (conjunction) nevertheless
  - e.g. It is a small car, yet it is surprisingly spacious.
- 2. (adv.) [هنوز [در جملات منفی] e.g. - Are you ready?
  - Not yet!

#### foreseeable

پیشبینیپذیر

e.g. foreseeable future

# standpoint

نقطه نظر

e.g. From an economic standpoint, the policy meets the constraints.

### • to fiddle with something

to keep touching and moving something with your hands because you're bored or anxious

- e.g. He was fiddling with his keys while he was talking to me.
- e.g. He was nervously fiddling with his pen as he waited for the test to begin.

#### • rigorous

extremely thorough, exhaustive and accurate

کامل

rigour

سختگیری و دقت زیاد

#### payoff

نتیجهٔ نهایی، بازده

e.g. You have to work hard, but there will be a big payoff.

# حلسهٔ ۸۰

#### former

(adj. / n.) (اولى)

e.g. both the current and the former employees

#### latter

دومی (بعدی)

- e.g. We were offered tea and coffee. I chose the former and he chose the latter.
- e.g. I have two meetings today. The former is with my boss. The latter is with a client.

#### desirable

خواستنى

#### hardly

بەندرت

#### validation

building the right thing

#### verification

building the thing right

#### · even though

اگرچه

#### proponent

طرفدار، حامی یک عقیده یا عمل

e.g. The theory still has its proponents.

opponent

1. مخالف

e.g. opponent of the plan

2. رقيب

.e.g. He knocked out his  $\underline{\text{opponent}}$  in the third round

# artifact (artefact)

محصول ساخت بشر

e.g. silver and gold artifacts

# • relic (of/from sth.)

an object or tradition that survived from the past

#### bygone

belonging to an earlier time (that has gone by, past)

e.g. Videotapes may already seem like relics of a bygone era.

# • go by

سپری شدن زمان

e.g. Things will get easier as time goes by.

• aim

هدف

#### entitle

- 1. مجوز چیزی را به کسی دادن e.g. This ticket doesn't <u>entitle</u> you to travel first-class
  - 2. دادن عنوان به چیزی e.g. He read a poem <u>entitled</u> "Sorrow.".

# • attain

به دست آوردن، نائل شدن

# artistry

هنرمندي

#### strive

to try hard to achieve something

- e.g. striving for the highest standards
- e.g. striving against laziness
- e.g. striving to find a solution

# جلسهٔ ۹ه

# • to happen to

to do or to be something by chance

e.g. I happened to glance at ... .

# economy

efficient and conservative use

e.g. Writing with an economy of language

# painstaking

done with great care

e.g. painstaking attention to details

# meticulous

با وسواس

e.g. Do your task meticulously.

#### ineffective

كارآمد

# likely

احتمالاً

#### gentle

ملايم

#### intent

قصد

#### intentional

عمدي

# indispensable

absolutely necessary

e.g. This is an indispensable reference book.

#### to reckon

to think about something

- e.g. I reckon that I'm going to get the job.
- e.g. He will be famous one day, what do you reckon?

# حلسهٔ ۱۰

# mention

ذکر کردن

#### aforementioned

فوقالذكر

e.g. The aforementioned method uses a combinational approach.

#### connotation

دلالت ضمنى

an idea suggested by a word in addition to its meaning

e.g. The word "professional" has connotations of skill and experience.

#### connote

دلالت ضمنی کردن بر

e.g. For him, the word "family" connotes comfort.

#### turn up

1. بالا بردن (صدا، سطح و ...) e.g. <u>turn</u> the TV <u>up</u>

- 2. to arrive
  - e.g. We arranged to meet at 7 but he never turned up.
- 3. to be found especially by chance after being lost
  - e.g. Don't worry, I'm sure the letter will turn up.
- turn down

1. كم كردن (صدا، سطح و ...)

- 2. reject something offered
  - e.g. His novel was <u>turned down</u> by publisher after publisher.

#### once

1. يک بار. e.g. He cleaned his car <u>once</u> a week. .e.g. <u>Once</u> bitten, twice shy

2. یک زمانی در گذشته

.e.g. The book was famous <u>once</u>, but nobody reads it today

- all at once
  - 1. suddenly
  - 2. simultaneously

e.g. I can't do everything all at once.

#### induce

- 1. persuade
  - e.g. Nothing would induce me to take the job.

#### spell

```
منجر به حادثهٔ بد شدن
e.g. to <u>spell</u> trouble, disaster, ...
```

#### doom

```
سرنوشت شوم
```

e.g. to meet your doom

#### rational

(adj.) reasonable

e.g. a rational analysis

#### ≠ irrational

#### rationale

(n.) reason

e.g. What is the rationale behind this?

# • flight of fancy

an idea that shows a lot of imagination but it is not practical

e.g. The book is filled with flights of fancy about the future of the computer industry.

#### · with respect to

نسبت به

e.g. the derivative of function f(x) with respect to x

e.g. The two groups were similar with respect to income and status.

# synthesis

```
ترکیب (سنتز)
```

### fairly

نسبتأ

### in terms of

برحسب

e.g. In the function y = 12 - 7x, y is expressed in terms of x.

#### impersonal

سرد و بیعاطفه

# aesthetic

مربوط به علم زیبایی

e.g. the building has little aesthetic value

#### aesthetics

علم زیباییشناسی

# humanitarian

philanthropic

بشردوستانه

e.g. humanitarian aid

# • contradictory

conflicting متناقض

contradiction

تناقض

proof by contradiction
 برهان خلف

# anxious

مضطرب

anxiety

اضطراب

#### intriguing

very interesting because of being unusual

e.g. The discoveries raise <u>intriguing</u> questions.

# • to intrigue (sb.)

to make somebody very interested and want to know more about something e.g. You have really <u>intrigued</u> me. Tell me more.

#### exacting

- 1. making severe demands
  - e.g. an exacting instructor
- 2. requiring care and effort
  - e.g. an exacting task

#### • to voice (sth.)

ابراز كردن

e.g. A number of parents have voiced concern about their children's safety.

#### wane

to become weaker, gradually decrease, fade

- e.g. His popularity was waning somewhat.
- e.g. full moon ≠ waning moon
  - wax and wane: بالا و پایین شدن در گذر زمان
    - e.g. Public interest in the issue has waxed and waned over the years.

#### literal

- 1. (adj.) تحتاللفظي
  - e.g. Dreadful in its <u>literal</u> meaning: full of dread.
- 2. (used to emphasise a phrase even if it's not true)
  - e.g. I literally jumped out of my skin.

#### literally

(adv.)

- e.g. The word planet <u>literally</u> means "wandering body".
- e.g. Idioms usually cannot be translated literally to another language.

# compose a poem

سرودن شعر

# genuine

اصل و بااصالت

# recognize

شناختن

### thrill

هيجان

 heavy-handed using unnecessary force

# • in the first place

در ابتدا

e.g. We should never have agreed to let him borrow the money in the first place.

# • harangue

نطق آتشين

# chief

ultimate

# elegant

ظريف

# (i) Info

# Diphthong

.دو حرف صدادار در یک سیلاب (بخش) یک کلمه ممکن است بر هم تأثیرگذار باشند

# حلسهٔ ۱۲

#### elegant

(adj.) attractive and stylish

- e.g. an elegant man.
- e.g. an elegant room

#### • be hooked on sth.

enjoying something very much so that you want to do it more and more e.g. I was first <u>hooked on</u> scuba diving when I was twelve.

# magnificent

very impressive and attractive

e.g. The Taj Mahal is a magnificent building.

#### • exquisite

extremely beautiful and carefully made

#### sparkling

- 1. flashing with light
  - e.g. sparkling eyes
- 2. fizzy
  - e.g. sparkling mineral water
- 3. interesting and amusing

#### come to the forefront

e.g. When the pandemic hit, remote work practices came to the forefront.

### forefront

the most noticeable and important position

#### noble

very impressive in quality

#### mold

قالب ریختهگری

#### · akin to sth.

similar to something

# conservatory

2. greenhouse (گلخانه)

# pupil

1. شاگرد مدرسه

1. هنرستان هنرهای زیبا

2. مردمک چشم

#### epithet

لقب، صفت

e.g. The film is long and dramatic but doesn't quite earn the epithet "epic".

#### claim

ادعا، ادعا كردن

e.g. I don't claim to be an expert

# disclaim

deny

e.g. They disclaimed any responsibility for the problems.

#### disclaimer

رفعكنندة مسئوليت

#### reclaim

پس گرفتن

e.g. An operating system manages process termination by reclaiming its resources.

#### acclaim

مورد تشويق قرار دادن

e.g. The book has been widely acclaimed as a modern novel.

#### exclaim

با شور و حرارت فریاد زدن

e.g. After the match, the fans exclaimed that it was the best match they had ever seen.

#### exclamation mark

علامت تعجب

# proclaim

اعلان عمومی کردن

e.g. The doctors proclaimed a state of emergency.

#### analogy

همانندی، شباهت

e.g. He drew an analogy between the brain and a CPU.

# analogously

به طور قیاسی

e.g. We analyzed the most interesting case; those we omit can be treated <u>analogously</u>.

# judge

قاضي

#### benefactor

خير

e.g. the benefactor of the hospital

### mischievous

بدجنس

# conjoin

to join together.

e.g. conjoined twins

# contingent

- 1. (n.) a group of people at a meeting who have something in common, especially, the place they came from e.g. the largest <u>contingent</u> was from Japan.
- 2. (adj.) on/upon sth.

مشروط به

e.g. plans contingent on the weather

#### condemn

محكوم كردن

# legitimate

قانوني

#### arise

occur

رخ دادن

#### prone

مستعد چیز بد

liable

e.g. prone to injury

e.g. error-<u>prone</u>

e.g. injury-prone

# (i) Info

It is  $important\ for\ him$  to attend every day.

It is **important** *to* me that you should be there.

# جلسهٔ ۱۳ • be in bad/poor taste حالبههمزن ≠ be in good taste criterion معيار criteria (pl.) • preoccupied with sth. مشغول بودن شدید ذهن به چیزی needless غيرضروري net خالص مانده e.g. net income gross ماندهٔ ناخالص reputable خوشنام ≠ disreputable

premature

نابالغ، زودهنگام

penny-wise

wise only in dealing with small matters

- = pound-foolish
- oblivious

بىاعتنا، فراموشكار

e.g. He drove off, oblivious of the damage he had caused.

• trip سفر كوتاه

• curious

2. strange/unusual

curiosity كنجكاوى

1. كنجكاو

# virtuoso

a person who is extremely skillful at doing something especially playing a musical instrument e.g. a piano <u>virtuoso</u>

#### phenomenon

پدیده

• pl. phenomena

# presumably

probably

e.g. They can presumably afford to buy a new car.

#### enthusiast

شخص مشتاق (n.)

#### enthusiasm

اشتياق (n.)

#### enthusiastic

مشتاق (adj.)

#### relish

to enjoy

#### pastime

hobby

#### • hands-on

(adj.) doing something rather than just talking about it

e.g. a hands-on computer programming

#### engender

to make a feeling or situation exist

- e.g. a place engendered the feeling of friendship
- e.g. The issue engendered controversy.

#### groan

moan

شکایت و ناله کردن

### prospect

چشمانداز، دورنما

a possibility that something will happen

- e.g. There is no prospect of peace among the team members.
- e.g. A place in the semi-finals is in prospect.

#### convey

to make ideas and feelings known to somebody

- e.g. Colors like red <u>convey</u> a sense of energy.
- e.g. He tried to convey how urgent the situation was.
- e.g. Please convey my apologies to him.

# convoy

کاروان ماشینهای نظامی یا کشتیهای جنگی

e.g. a <u>convoy</u> of trucks

e.g. <u>convoy</u> effect

# • simplistic

سادهانگارانه

making a problem seem less difficult than it is

e.g. His interpretation of the theory was too simplistic.

#### emphatic

an emphatic statement, answer, etc. that is given with force to show that it is important e.g. an <u>emphatic</u> rejection

#### jargon

لغات مصطلح در یک کامیونیتی

#### thesis

تز

#### naive

سادهلوح

#### wise

(suffix)

- 1. in the manner or direction of
  - e.g. likewise, clockwise, anticlockwise, lengthwise, crosswise, stepwise
  - e.g. a piece of paper folded lengthwise
- 2. with regard to pennywise, dollarwise, security-wise

#### resent

ابراز تنفر و خشم از چیزی resentful of/about something e.g. a <u>resentful</u> look

# spoil

خراب کردن

#### circumstances

# حلسهٔ ۱۷

### vain

- 1. useless, بيهوده
  - e.g. A vain attempt to hold tears
    - In vein
      - e.g. All efforts were in vain.
- 2. conceited, مغرور
- vanity

(n.)

#### vein

1. سياهرگ

- artery
  - سرخرگ
- 2. a particular manner
  - e.g. A number of other people commented in a similar vein.
- to shy away from sth.

to avoid doing something because you are nervous or frightened e.g. We frequently <u>shy away from</u> making decisions.

• get a kick out of sth.

هیجانزده شدن

e.g. I get a kick out of driving fast cars.

invoke

فراخوانى كردن

identical

یکسان ,similar

incontestable

غیر قابل انکار و بحث

e.g. an incontestable fact

to ascribe

منتسب کردن نوشتهای یا رخدادی به کسی

- e.g. He ascribed his failure to bad luck.
- e.g. This play is usually ascribed to Shakespeare.
  - ascription

(n.)

dull

gloomy

#### to save face

to take an action or make a gesture intended to preserve one's reputation or behaviour

e.g. I managed to save face by being able to speak about the topic, although the presentation that was made was very bad.

#### emphasis

تأكيد كردن

#### · outlet for sth.

a way of expressing or making good use of strong feelings وسيلهٔ بيان

- e.g. He needs to find an outlet for his many talents.
- e.g. Sport became the perfect outlet for his aggression.

#### whatsoever

بەھىچوجە، ابدأ

- e.g. My school did nothing whatsoever in the way of athletics.
- e.g. The received no help whatsoever.

#### • declaim [against sth.]

رجزخوانی کردن، با شور صحبت کردن علیه کسی یا چیزی

- e.g. He declaimed against the evils of cigar.
- e.g. She declaimed the famous opening speech of the play.

# charming

very attractive

#### mess

a dirty or untidy state

- e.g. The room was in a mess.
- e.g. "What a mess!" He said, surveying the scene after the kids left.

# حلسهٔ ۱۹

# • to spill the beans

to reveal secret information unintentionally

e.g. You should never tell me a secret! I hope I don't spill the beans by mistake.

#### address

- 1. to make a formal speech to a group of people, خطاب قرار دادن عدهای e.g. The dean has been asked to <u>address</u> the students.
- 2. to think about a problem and decide how you are going to deal with it e.g. Your essay does not address the real issues.

# encourage

تشويق كردن

#### • freshman (frosh)

سالاولى

sophomore (soph)

سالدومي

• junior (jr.)

سالسومي

senior (sr.)

سالآخرى

so-and-so

1. فلاني

.e.g. The gossip about <u>so-and-so</u>

2. فلانفلانشده

.e.g. All his fault, the wicked little so-and-so

#### functional

practical and useful without decoration

# strictly

سختگیرانه، بهشدت

### pleasant

خوشايند

### facilities

امكانات

# • to pull the rug (carpet) out from under one's feet

to take help or support away from somebody suddenly

e.g. I felt like someone had <u>pulled the rug out from under my feet</u> when my health insurance stopped paying for my medical bills.

#### keep up

حفظ کردن ,preserve

e.g. Keep up the good work!

#### keep up with sb. or sth.

همگام و همسرعت با چیزی در حال حرکت یا رشد

- e.g. I can not keep up with all the changes.
- e.g. Slow down! I can't keep up with you.

#### • behind the scenes

پشت پرده

#### • in common

مشترک

# case in point

نمونه ,example

e.g. What follows is a <u>case in point</u>. = زادامه آمدهاست، مثالیست از ...

#### go awry

If something goes awry, it doesn't happen in the way that was planned.

e.g. All my carefully laid plans went awry.

awry

نامرتب, untidy

#### • instrumentation [of a program]

دستکاری کردن کد در راستای خواستهها

# enhance

بزرگ کردن

# • ingenuity

نبوغ

# • ingenious

نابغه

#### subconscious

ناخودآگاه

e.g. Many advertisements work at a <u>subconscious</u> level.

#### state-of-the-art

مدرن و پیشرفته و بهروز e.g. a <u>state-of-the-art</u> system

# surge

- 1. to move quickly with force in a particular direction
  - e.g. The gates opened and the crowd surged forward
- 2. to suddenly increase in value
  - e.g. The stock market surged to a record.

# look forward to

با اشتیاق در انتظار و چشمبهراه بودن e.g. We <u>look forward to</u> seeing you.

# obligation

اجبار

# حروف يوناني

Name	Capital	Small
alpha	Α	α
beta	В	β
gamma	Γ	γ
delta	Δ	δ
epsilon	Е	ε
zeta	Z	ζ
eta	Н	η
theta	Θ	θ
iota	I	I
kappa	K	К
lambda	٨	λ
mu	М	μ
nu	N	V
xi	Ξ	ξ
omicron	0	0
pi	П	π
rho	Р	ρ
sigma	Σ	σ/ς
tau	Т	Т
upsilon	Υ	U
phi	Ф	φ
chi	Χ	Χ
psi	Ψ	Ψ
omega	Ω	ω