

CPNSS LSE Literary Festival lecture

## How We Feel: what neuroscience can and can't tell us about our emotions

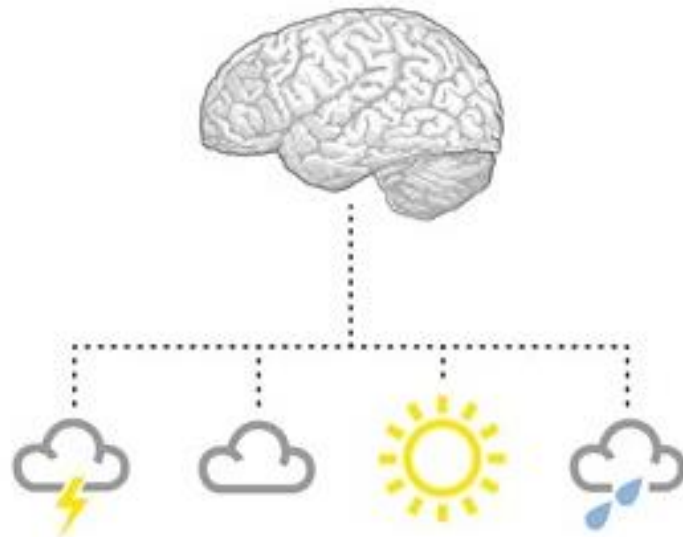
**Giovanni Frazzetto**

*Institute for Advanced Study. One of the founders of the European Neuroscience & Society Network and the creator of the transdisciplinary Neuroschools.*

**Stephan Guetinger**

*Chair, LSE*





# HOW WE FEEL

What neuroscience can – and  
can't – tell us about our emotions

GIOVANNI FRAZZETTO

# How We Feel

What Neuroscience Can &  
Can't  
Tell Us About Our Emotions  
*Giovanni Frazzetto*

*Reflections*

*LSE Literary Festival*

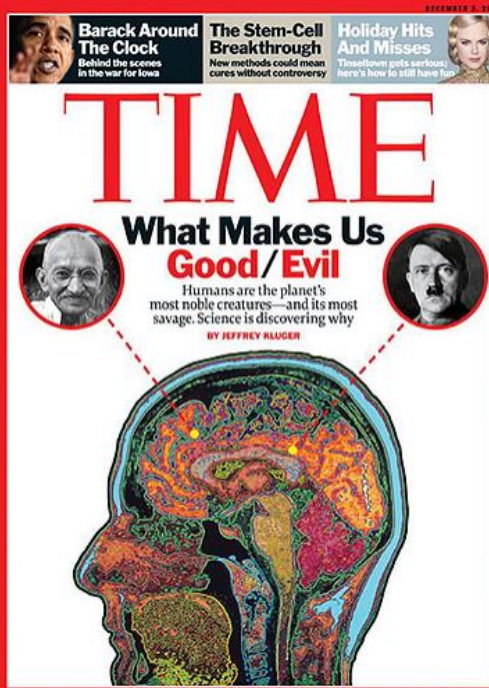
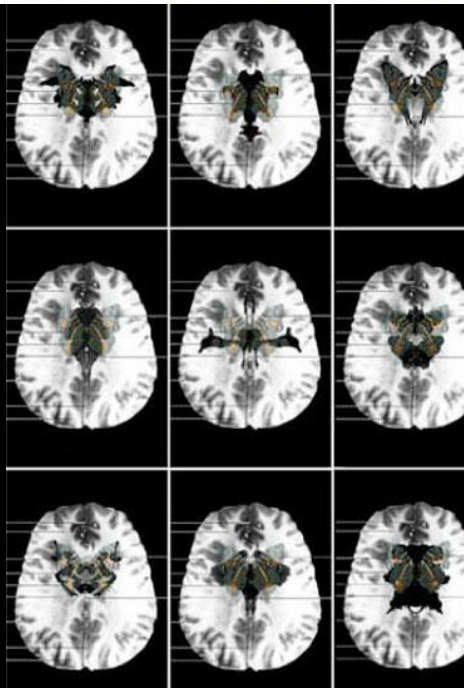
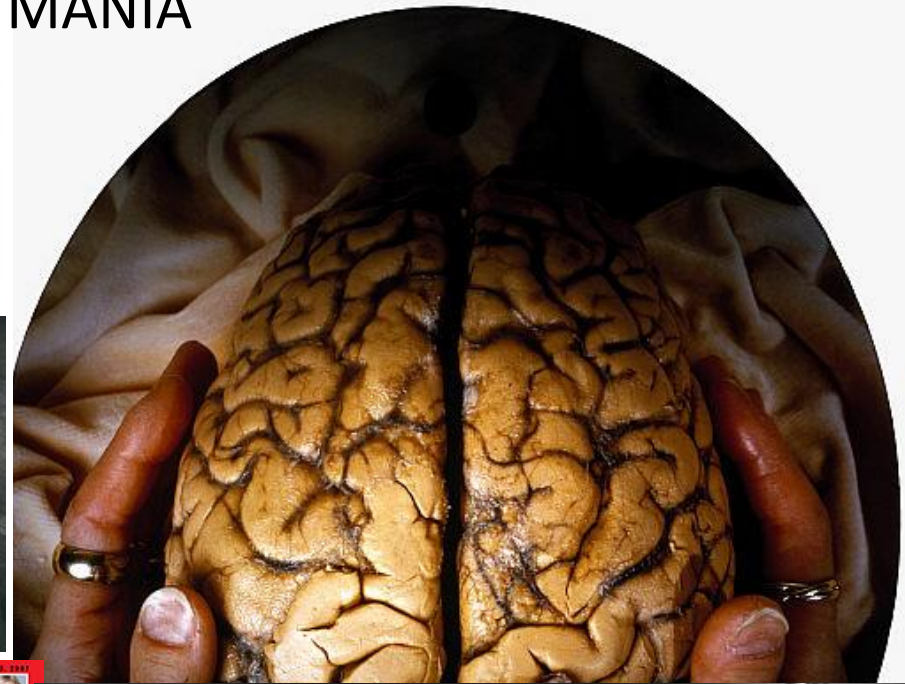
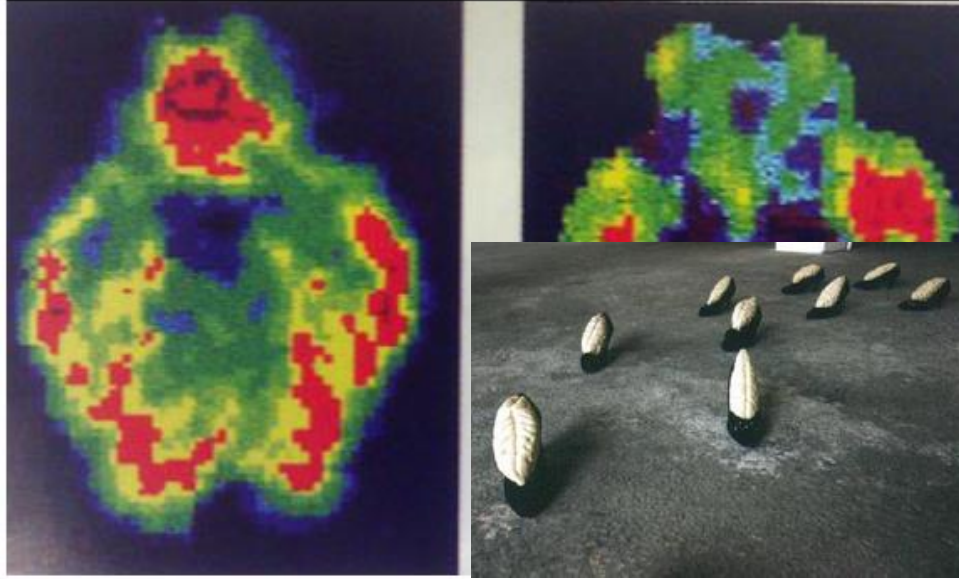
*March, 1st, 2014*



# Neurocriminology

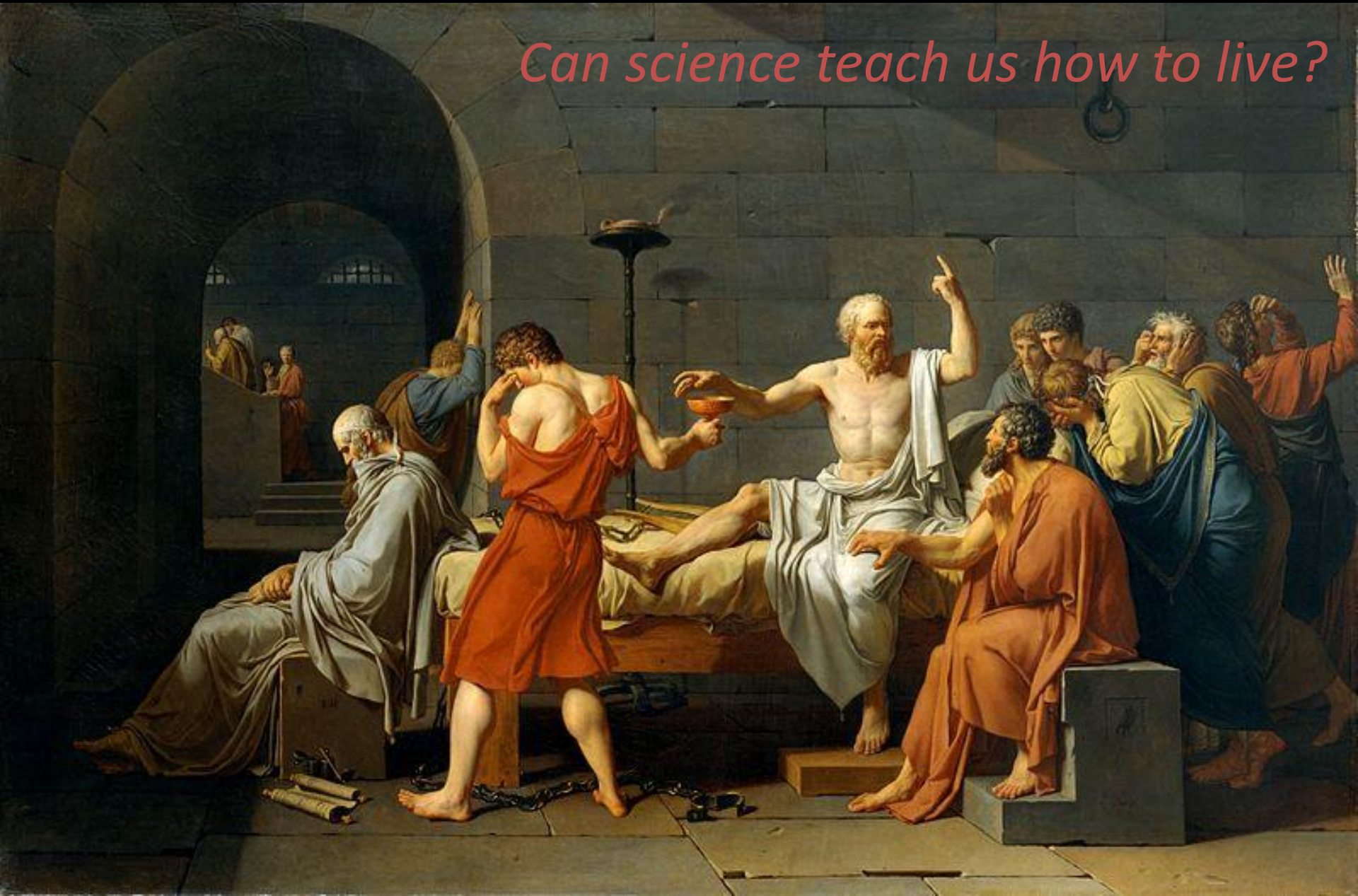
## How to spot a murderer's brain

# NEURO MANIA





*Can science teach us how to live?*



*The Death of Socrates, Jacques Louis David, 1787*





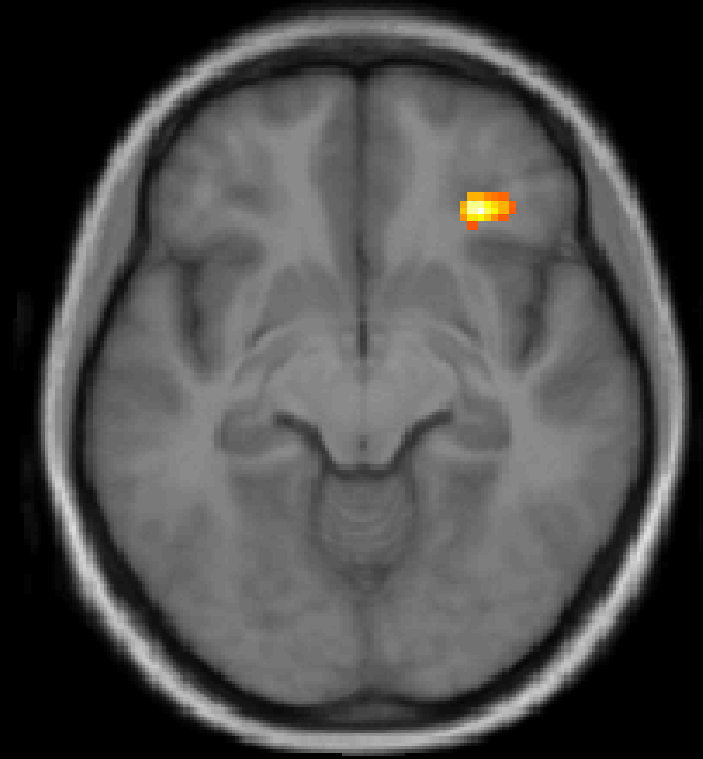
Samuel Beckett au cigare, 1970. Avigdor Arikha

~~le~~ le  
 les j'en voyez les yeux voyez  
 et de haine plein le coeur  
 de haine m' il aime ~~et~~ ~~pa~~ ~~de~~ ~~de~~  
~~qui~~ ~~de~~ ~~pourra~~ ~~par~~ ~~de~~ ~~de~~  
 plus que toutes les belles choses  
 et que toutes les bonnes choses  
~~qui~~ ~~de~~ ~~pourra~~ ~~par~~ ~~de~~ ~~de~~  
 de haine que les longues heures  
~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~  
~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~  
 les heures ~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~  
 et que la nuit achèvera  
 la nuit noire ~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~  
 de haine comme il se hait  
~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~  
 lui a l'encre du soleil  
 et de ceux qui le hait  
 et des chameaux  
~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~  
 en cet état Petit sot  
 se promène dans le bois  
 tristement ~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~  
 et ~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~  
 d'un monde ~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~  
 dans l'air ~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~  
 maint ~~de~~ ~~de~~ ~~de~~ ~~de~~ ~~de~~

son d'inventeur  
 Avigdor Arikha  
 7 août 1980  
 clemis & ciles  
 de ce monde  
 Sam Beckett

**GUILT**

## Guilt-specific processing in the prefrontal cortex





David with the Head of Goliath, Caravaggio, 1609



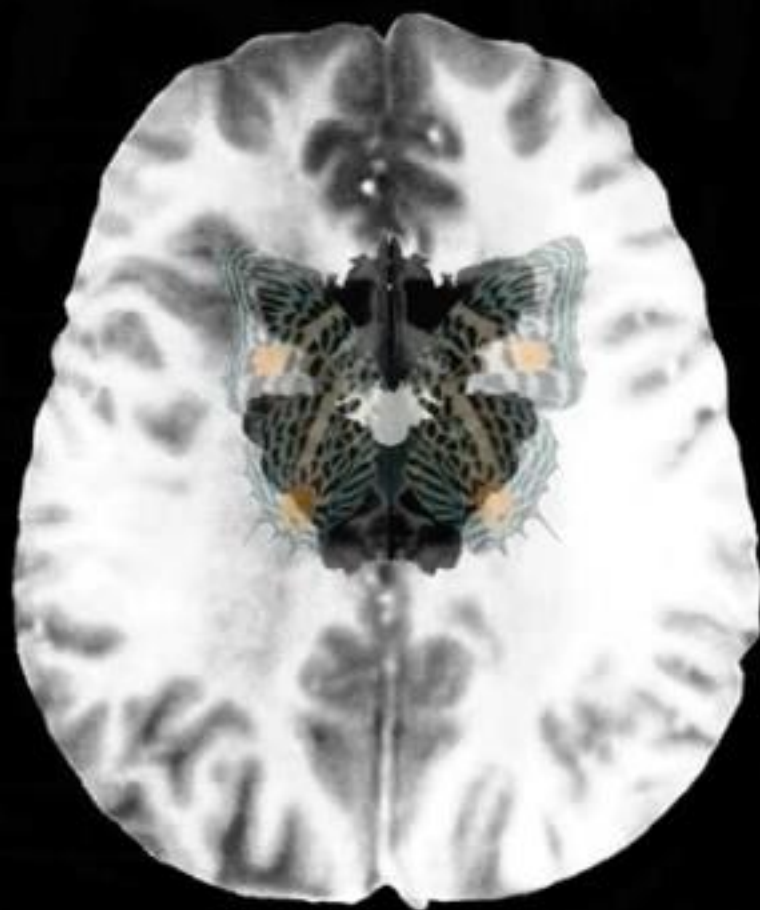
# GUILT



Wagner et al, 2011

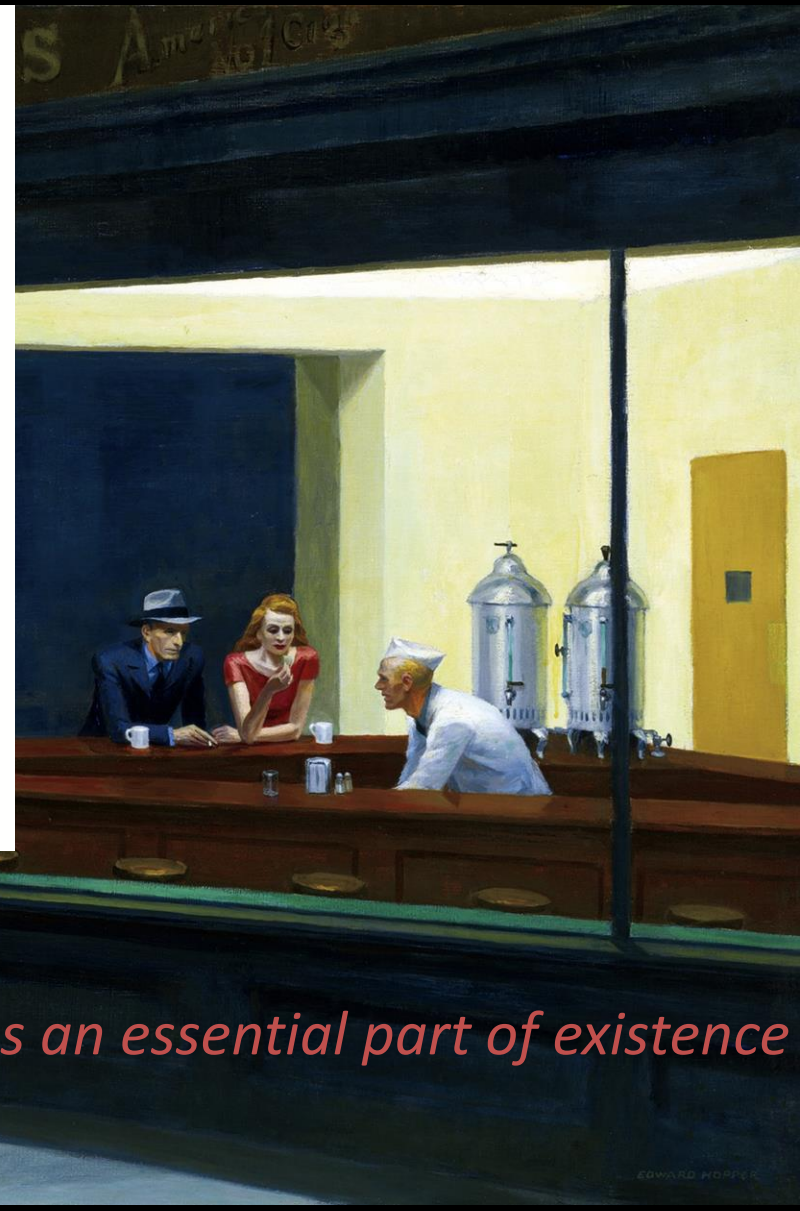
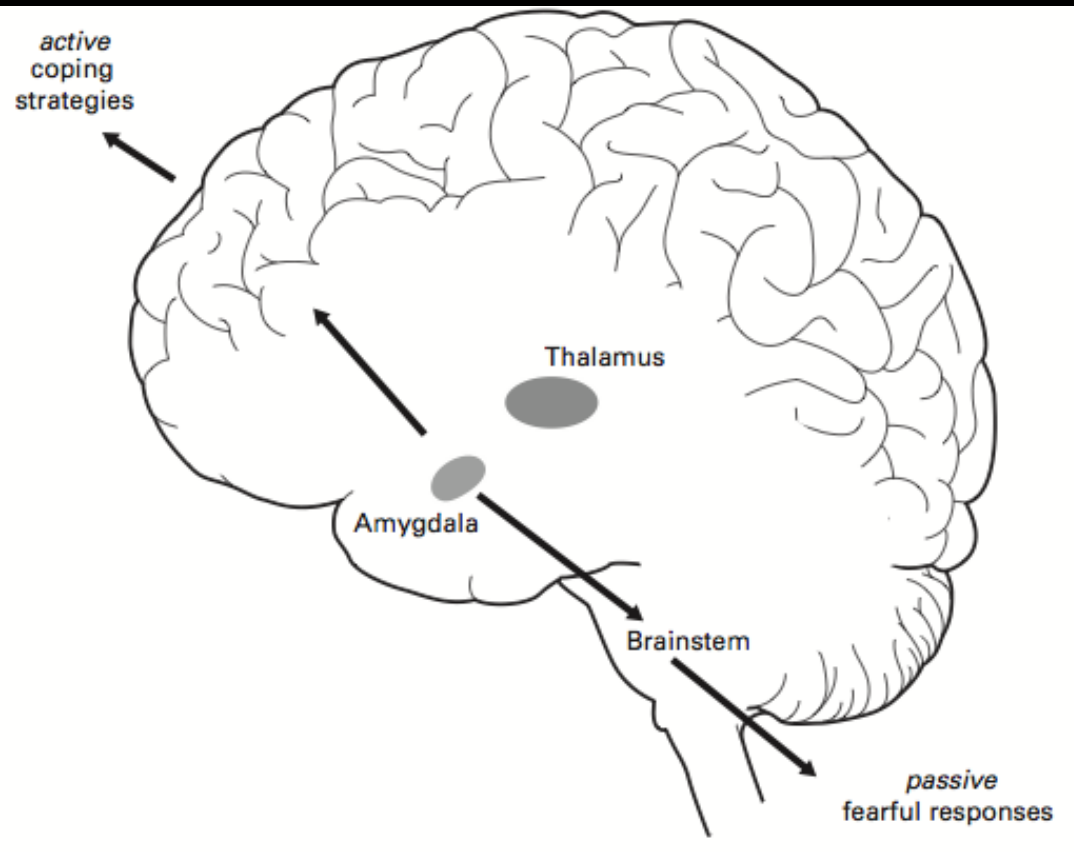
David with the Head of Goliath, Caravaggio, 1609







**ANXIETY**



*Anxiety as an essential part of existence*

# ANXIETY

*Edward Hopper, Nighthawks*

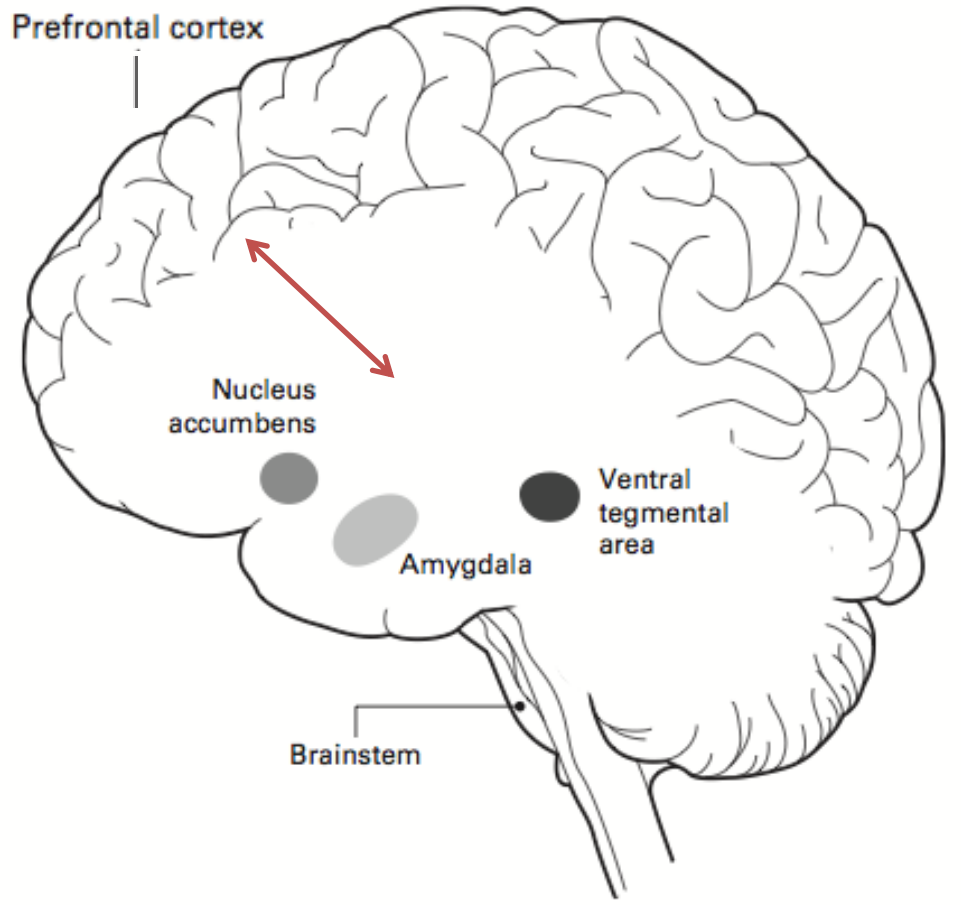
JOY



*Suspended in such spell, we ...?  
The truth descended from our yearning eyes  
?...Resisting afterthoughts,...?*

*Suspended in such spell, we won high tides  
Embraced the water, gazed upon the stars  
The truth descended from our yearning eyes  
Resisting afterthoughts, erasing scars*

*Here, tears are sweet, well then what gives to cry?  
At sea, through the night, you and I fly high*



water  
suspended from  
~~the top of the~~ air  
gets, erasing

*Suspended in such spell, we ...?*  
*The truth descended from our yearning eyes*  
*?...Resisting afterthoughts,...?*

are sweet, so

*Suspended in such spell, we won high tides*  
*Embraced the water, gazed upon the stars*  
*The truth descended from our yearning eyes*  
*Resisting afterthoughts, erasing scars*

**JOY**

*Here, tears are sweet, well then what gives to cry?*  
*At sea, through the night, you and I fly high*



LOVE

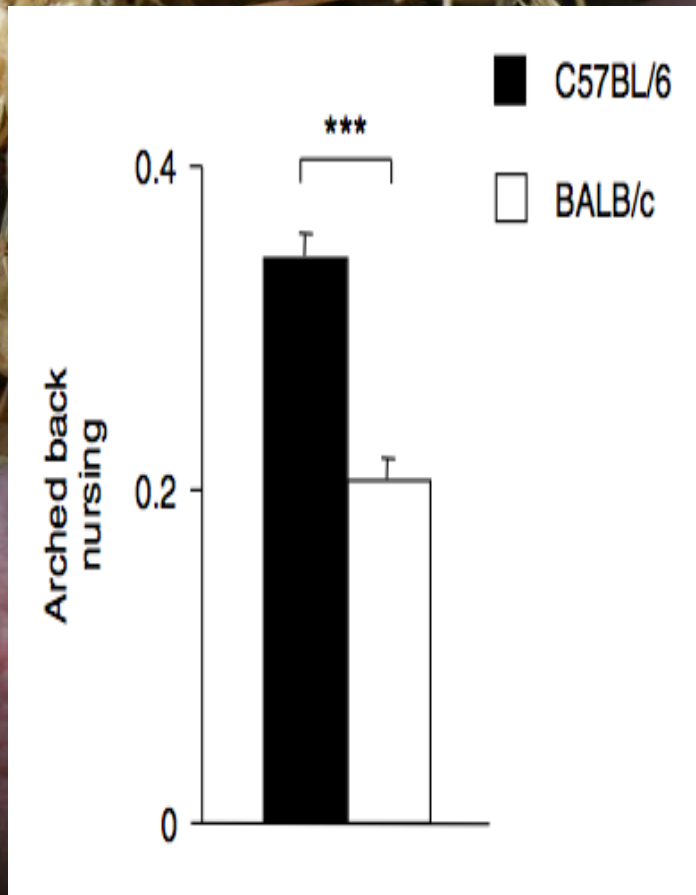
## Sonnet #148

O me, what eyes hath love put in my head  
Which have no correspondence with true sight!  
Or if the have, where is my judgment fled,  
That censures falsely what they sense aright?

...

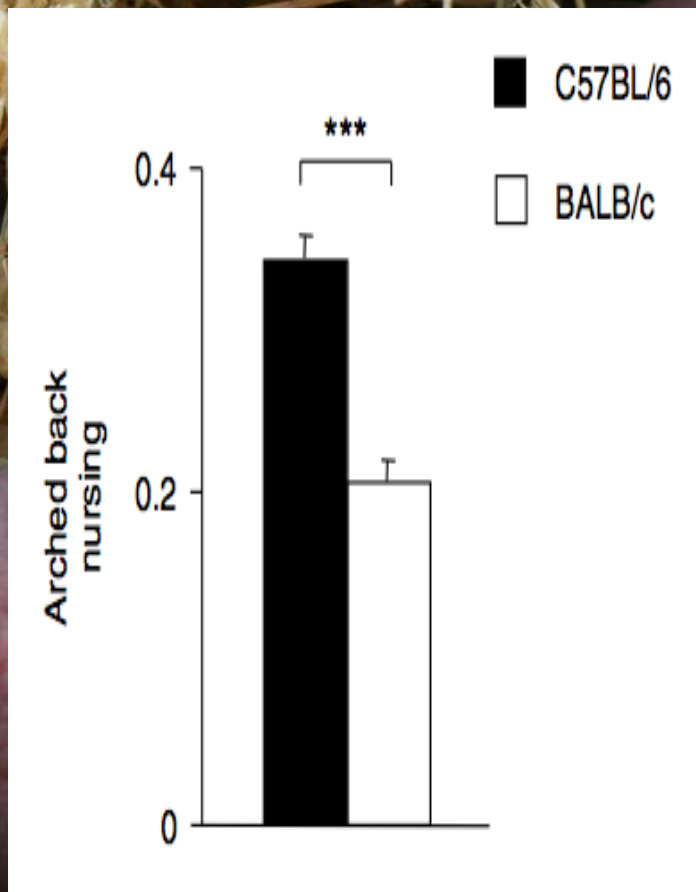
## Levels of maternal care

LOVE





## Levels of maternal care



# LOVE

## THIS BE THE VERSE

They fuck you up,  
your mum and dad.

They may not mean to, but they do.  
They fill you with the faults they had  
And add some extra, just for you.

But they were fucked up in their turn  
By fools in old-style hats and coats,  
Who half the time were soppy-stern  
And half at one another's throats.

Man hands on misery to man.  
It deepens like a coastal shelf.  
Get out as early as you can,  
And don't have any kids yourself.

**Philip Larkin**

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