

# 2022 AI REGISTER OF CHILDREN IN THE NETHERLANDS:

Mapping Children's Awareness,  
Ethical and Social Sense-making and  
Imaginations of Artificially Intelligent  
Systems Via Meaningful  
Participation

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## ALTAI HI-LEG's Trustworthy AI principles



Human agency and oversight



Technical robustness and safety



Privacy and Data governance



Transparency



Diversity, non-discrimination and fairness



Societal and environmental well-being



Accountability

## UNESCO Recommendations on the Ethics of Artificial Intelligence Principles



Proportionality and do no harm



Safety and security



Fairness and non-discrimination



Sustainability



Right to privacy and data protection



Human oversight and determination



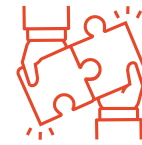
Transparency and explainability



Responsibility and accountability



Awareness and literacy



Multi-stakeholder and adaptive governance and collaboration

## UNICEF Policy Guidance on AI and children



Support children's development and well-being



Ensure inclusion of and for children



Prioritise fairness and non-discrimination for children



Protect children's data and privacy



Ensure safety for children



Provide transparency, explainability, and accountability for children



Empower governments and businesses with knowledge of AI and children's rights



Prepare children for present and future developments in AI



Create an enabling environment



## Children's rights online (UNCRC)



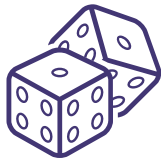
Children's right to have their 'best interests' taken into consideration (Article 3)



Children's right to reach their full potential and to develop their talents and abilities, including through education (Articles 6, 28 and 29)



Children's right to be treated equally and fairly (Article 2)  
Children's right to feel safe and cared for, and to be protected from violence (Articles 19, 34 and 36)



Children's right to play and to take part in cultural life and the arts (Article 31)



Children's right to access health services (Article 24)  
Children's right to get information that is important for their well-being, and to be protected from harmful information (Article 17)



Children's right to share information and ideas unless it harms or offends other people (Article 13)  
Children's right to privacy (Article 16)

## Dutch Code for Children's Rights



Principle 1: Make the best interests of the child the primary consideration when designing



Principle 2: Involve children and their expectations in the design process



Principle 3: Ensure the legitimate processing of personal data of children



Principle 4: Provide transparency in a way that is understandable and accessible to children



Principle 5: Carry out a privacy impact assessment based on children's rights



Principle 6: Provide a child-friendly privacy design



Principle 7: Prevent the profiling of children



Principle 8: Avoid the economic exploitation of children at all times

Principle 9: Avoid a harmful design for children at all times

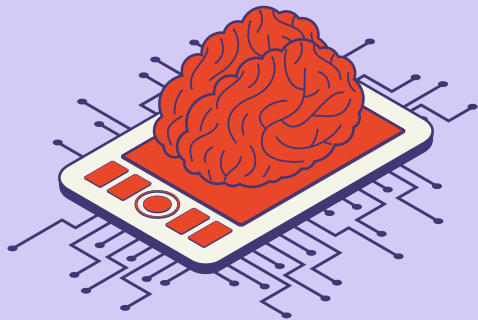


Principle 10: Develop industry guidelines which are geared to protecting the interests and rights of children



# Dutch children's value demands in a society with AI

## 1. Human literacy

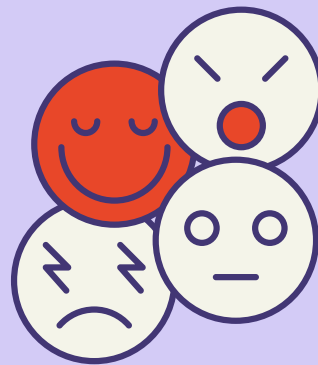


"If a robot was made to be my friend and would only learn from me that robot would only be able to replicate what I do? How could I know how to make others happy or what is sad? How can I learn and adapt to others' needs and moods, if I would only learn from a robot friend what I am doing?"  
(8 year old girl, primary school from Enschede)

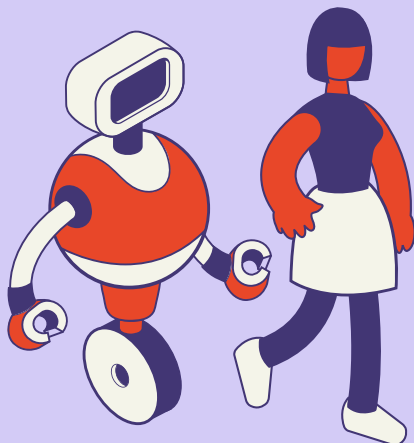
## 2. Emotional Intelligence

"I think becoming a friend would be impossible for a robot, because they have no emotions and humor."  
(12 year old boy, primary school Amersfort)

"Real people, I find still more social. A robot would not be able to help, if I had a quarrel with my sister."  
(10 year old girls, primary school)



## 3. Love & Kindness



"If you want to be my friend you would need to be able to be loving and kind and a robot cannot do that."  
(11 year old boy, primary school Katwijk)

"My best robot friend would be a robot who could keep a secret and to whom I could tell everything I would not want to tell to a human peer."

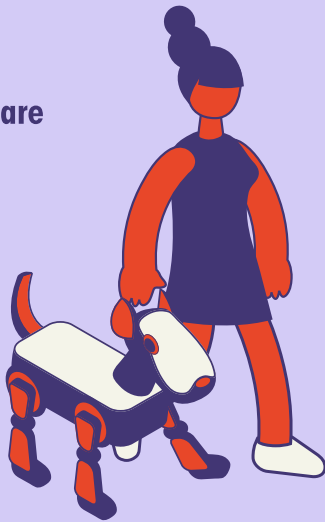
"For me the best robot would be a mini Minecraft robot that I could take into my pocket and that would guide me how to stay on a good path and do the right things."  
(8 year old boy, from primary school in Dordrecht)

## 4. Authenticity

"I think AI systems are unable to express their own opinions, they simply cannot. They always express the opinions of others."  
(11 year old, primary school from Eindhoven)



## 5. Human Care

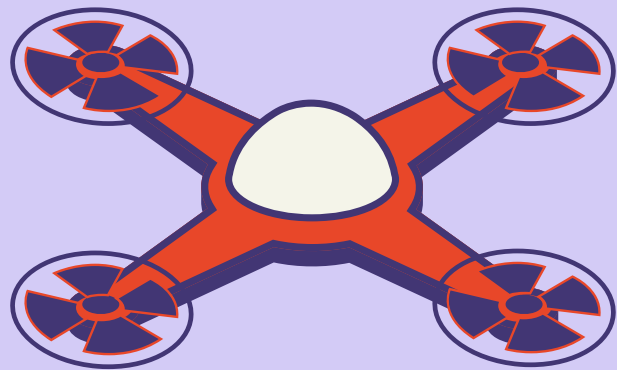


"I would want to be consoled as a human does."  
(10 year old girl, NEMO Museum visitor)

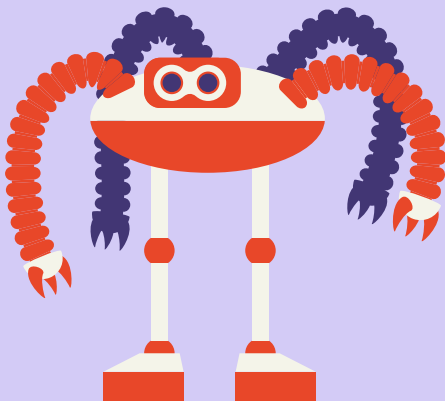
"Friendship with a robot cannot happen, because I cannot converse with a robot the same way as with a human friend."

## 6. Autonomy

"I do not want robots to take over the world."  
(10 year old girl, primary school Eindhoven))



## 7. Servitude

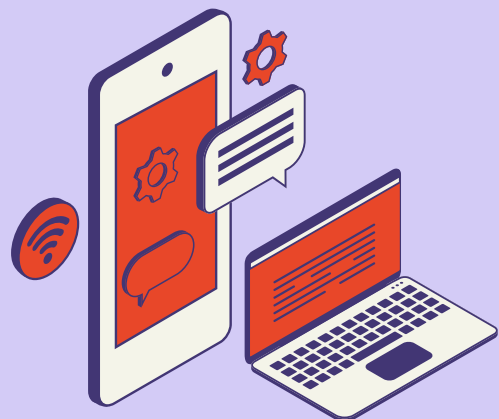


"My best robot would be an Octopus that would work between 7:30 and 8:30 the hardest with his or her 8 hands so that my parents would have more time for me."  
(11 year old girl, primary school in Teteringen)

## 8. Exuberance

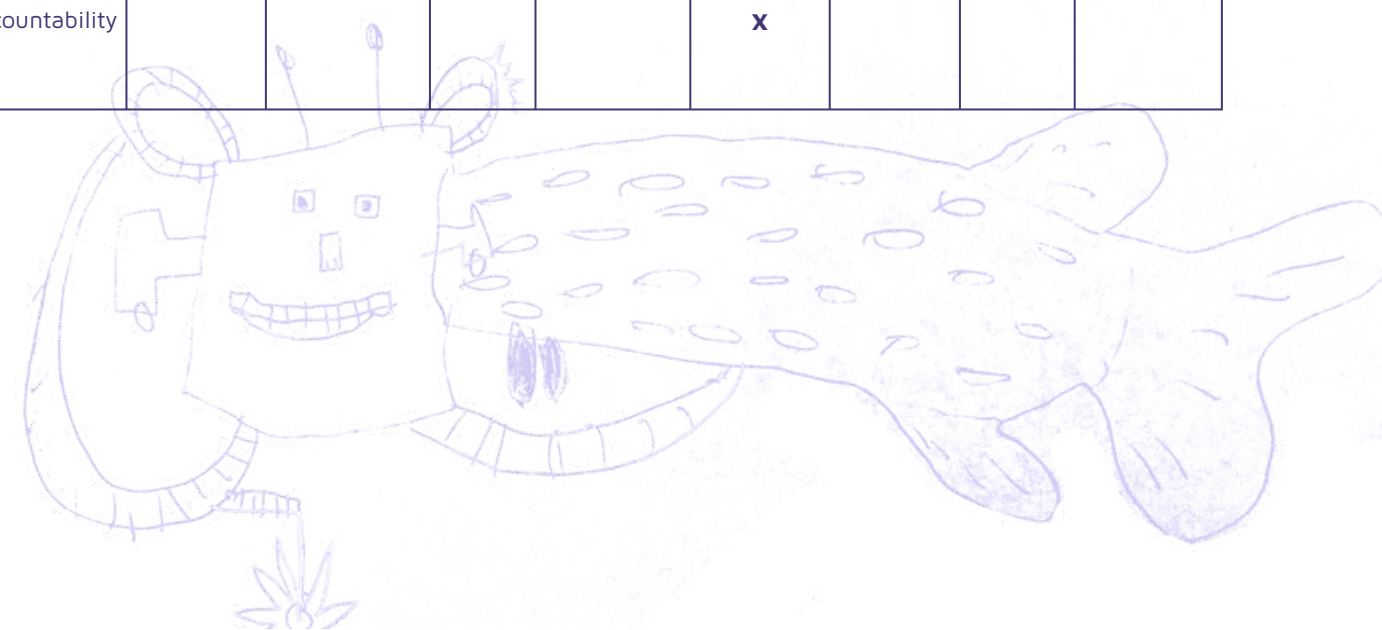
"A robot that can play with me outside and can also play a game with me inside."  
(8 year old boy, from primary school in Waalwijk)

"Not social, not personal, you cannot laugh with a robot and cannot converse like with peers."  
(9 year old girl, visitor at NEMO Museum Amsterdam)

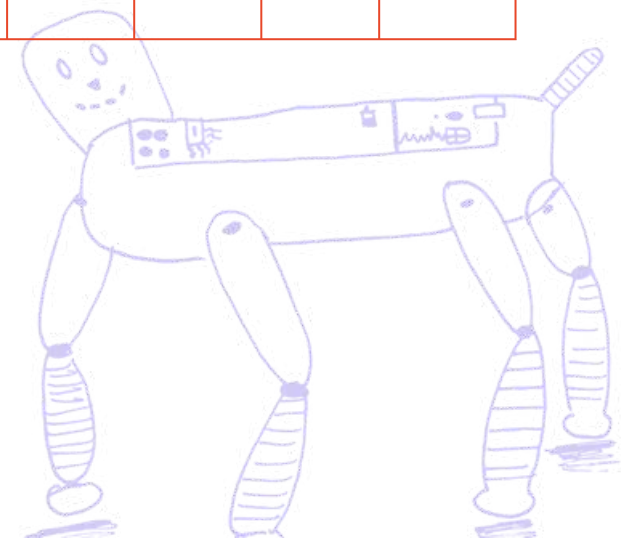
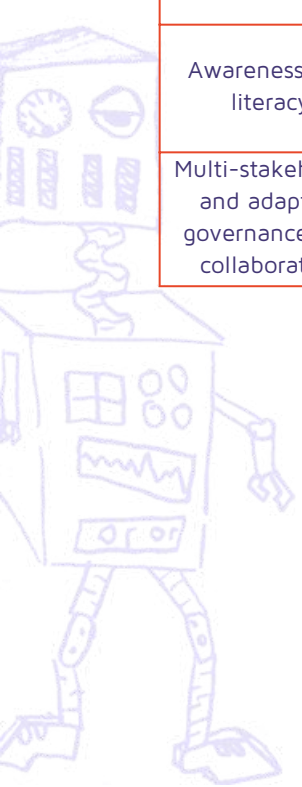
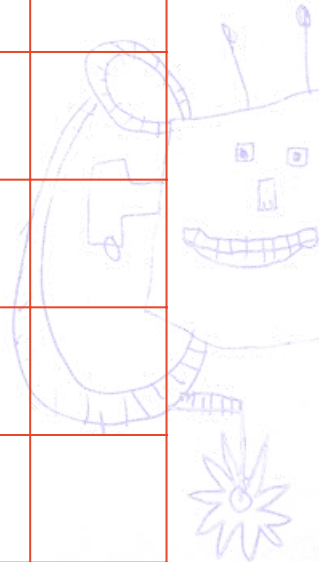




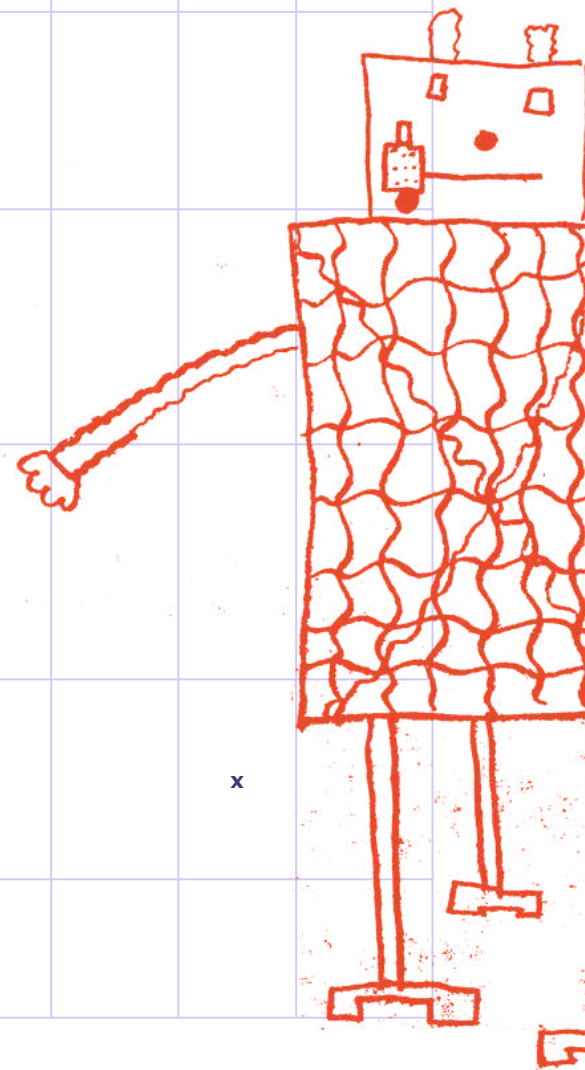
	Dutch children's value demands in a society with AI							
ALTAI High-Level Expert Group's Trustworthy AI principles	Human literacy	Emotional intelligence	Love & kindness	Authenticity	Human care & protection	Autonomy	AI in Servitude	Exuberance
Human agency and oversight	X	X	X			X		
Technical robustness and safety					X			
Privacy and Data governance					X			
Transparency					X			
Diversity, non-discrimination and fairness			X					
Societal and environmental well-being							X	
Accountability					X			



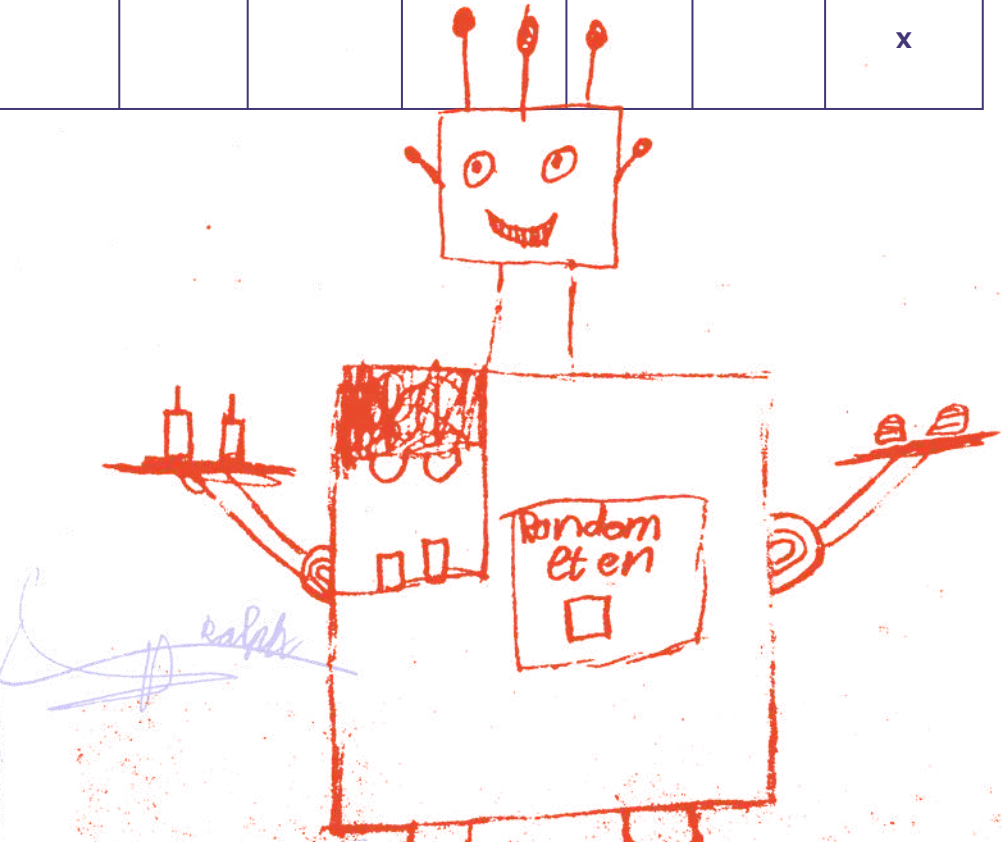
	Dutch children's value demands in a society with AI							
UNESCO Recommendations on the Ethics of Artificial Intelligence Principles	Human literacy	Emotional intelligence	Love & kindness	Authenticity	Human care & protection	Autonomy	AI in Servitude	Exuberance
Proportionality and do no harm					X			
Safety and security					X			
Fairness and non-discrimination					X			
Sustainability					X			
Right to privacy and data protection				X				
Human oversight and determination	X	X				X		
Transparency and explainability								X
Responsibility and accountability			X					
Awareness and literacy	X							
Multi-stakeholder and adaptive governance and collaboration	X	X	X	X	X	X	X	X

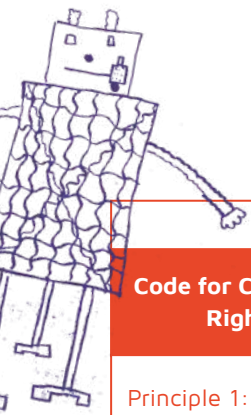


UNICEF Policy Guidance on AI and children	Dutch children's value demands in a society with AI							
	Human literacy	Emotional intelligence	Love & kindness	Authenticity	Human care & protection	Autonomy	AI in Servitude	Exuberance
Support children's development and well-being	x	x	x		x			
Ensure inclusion of and for children			x		x		x	
Prioritise fairness and non-discrimination for children	x	x			x			
Protect children's data and privacy	x	x	x		x			
Ensure safety for children					x			
Provide transparency, explainability, and accountability for children					x			
Empower governments and businesses with knowledge of AI and children's rights								
Prepare children for present and future developments in AI	x	x			x		x	
Create an enabling environment	x	x	x		x			

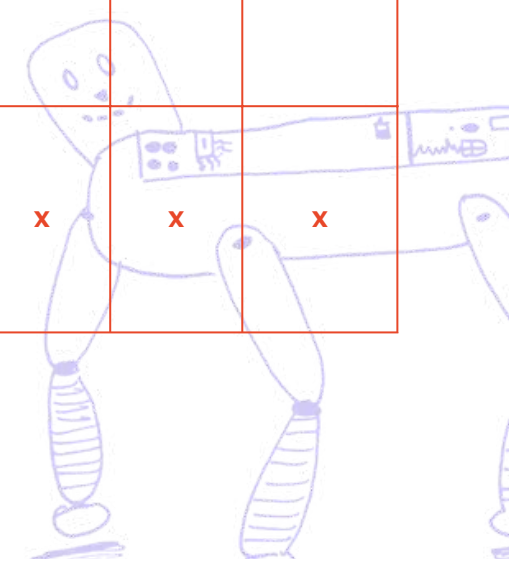
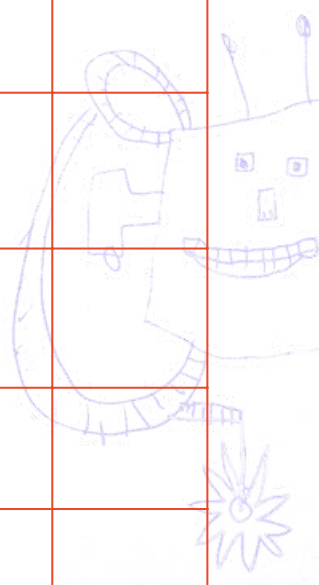


	Dutch children's value demands in a society with AI							
Children's rights online(UNCRC)	Human literacy	Emotional intelligence	Love & kindness	Authenticity	Human care & protection	Autonomy	Servitude	Exuberance
Children's right to have their 'best interests' taken into consideration (Article 3)	X	X	X		X			
Children's right to reach their full potential and to develop their talents and abilities, including through education (Articles 6, 28 and 29)	X				X			
Children's right to be treated equally and fairly (Article 2)Children's right to feel safe and cared for, and to be protected from violence (Articles 19, 34 and 36)			X				X	
Children's right to share information and ideas unless it harms or offends other people (Article 13)Children's right to privacy (Article 16)					X			
Children's right to access health services (Article 24)Children's right to get information that is important for their well-being, and to be protected from harmful information (Article 17)	X				X			X
Children's right to play and to take part in cultural life and the arts (Article 31)								X

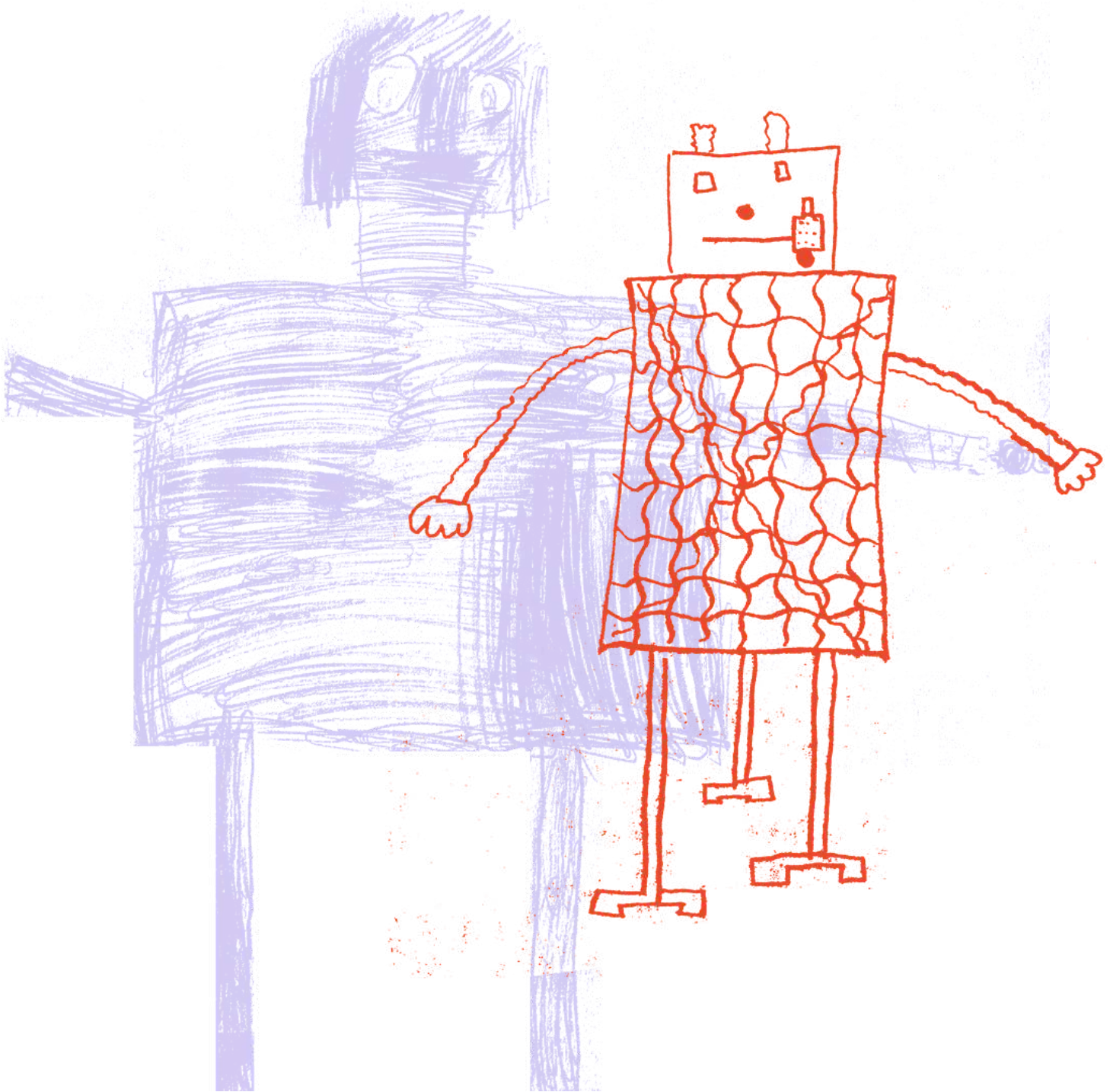




Code for Children's Rights	Dutch children's value demands in a society with AI							
	Human literacy	Emotional intelligence	Love & kindness	Authenticity	Human care & protection	Autonomy	Servitude	Exuberance
Principle 1: Make the best interests of the child the primary consideration when designing	X	X	X		X			
Principle 2: Involve children and their expectations in the design process				X		X	X	X
Principle 3: Ensure the legitimate processing of personal data of children					X			
Principle 4: Provide transparency in a way that is understandable and accessible to children				X	X	X		
Principle 5: Carry out a privacy impact assessment based on children's rights	X	X			X			
Principle 6: Provide a child-friendly privacy design	X	X	X		X			
Principle 7: Prevent the profiling of children			X	X	X			
Principle 8: Avoid the economic exploitation of children at all times Principle 9: Avoid a harmful design for children at all times					X		X	
Principle 10: Develop industry guidelines which are geared to protecting the interests and rights of children	X	X	X	X	X	X	X	X



	Dutch children's value demands in a society with AI							
Artificial Intelligence for Children Toolkit (WEF, 2021)	Human literacy	Emotional intelligence	Love and kindness	Authenticity	Human care and protection	Autonomy	AI in Servitude	Exuberance
Fair	X	X		X	X			
Inclusive			X			X		X
Responsible	X	X			X			
Safe	X	X	X		X			
Transparent					X			





**KIDS  
RIGHTS**



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